

VOLUME IV

NUMBER 4

BULLETIN OF
ST. JOHN'S COLLEGE
IN ANNAPOLIS

ANNOUNCEMENTS
FOR
1934-35



ANNAPOLIS, MARYLAND
SEPTEMBER, 1934

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SCHEDULE OF EXAMINATIONS, 1934-35

The first fourteen examination groups correspond to the regular class periods occurring at 8, 9, 10, 11, 1, 2, and 3 o'clock on M-W-F and T-Th-S. Groups XV and XVI are special. The following schedule has been found to meet the requirements of the student body and of the Faculty better than any other. Changes in this schedule can be made only for most exceptional reasons.

Day of Examination Period:		Time	Examination Group
Mid-Year	Final		
Thursday, January 17	Thursday, May 23	{ 9 A. M.—12 M.....	Group VIII
		{ 2 P. M.— 5 P. M.....	Group IX
Friday, January 18	Friday, May 24	{ 9 A. M.—12 M.....	Group II
		{ 2 P. M.— 5 P. M.....	Group XVI
Saturday, January 19	Saturday, May 25	9 A. M.—12 M.....	Group XV
Monday, January 21	Monday, May 27	{ 9 A. M.—12 M.....	Group III
		{ 2 P. M.— 5 P. M.....	Group VI
Tuesday, January 22	Tuesday, May 28	{ 9 A. M.—12 M.....	Group XI
		{ 2 P. M.— 5 P. M.....	Group I
Wednesday, January 23	Wednesday, May 29	{ 9 A. M.—12 M.....	Group V
		{ 2 P. M.— 5 P. M.....	Group X
Thursday, January 24	Thursday, May 30	{ 9 A. M.—12 M.....	Group IV
		{ 2 P. M.— 5 P. M.....	Group XIV
Friday, January 25	Friday, May 31	{ 9 A. M.—12 M.....	Group XII
		{ 2 P. M.— 5 P. M.....	Group VII
Saturday, January 26	Saturday, June 1	9 A. M.—12 M.....	Group XIII

COURSES OF INSTRUCTION

Freshman courses are numbered from 1 to 19, Sophomore courses from 20 to 29, Junior Courses from 30 to 39, and Senior courses from 40 up. The numbers of full courses are unqualified, half-courses running throughout the year are indicated by hf following the number, and half-courses given only in the first or the second half-year are designated by ¹hf or ²hf. Courses not given in the current year are bracketed. The Roman numeral in parentheses after the name of each course indicates the examination group to which the course is assigned. Separate sections have their examination groups listed successively.

Courses are open ordinarily to members of a higher class; and occasionally members of a lower class may obtain the permission of an instructor to register for a higher class. The previous consent of the instructor is required for registration in courses indicated by an asterisk (*). The reading courses numbered in the fifties are open to Juniors regularly. The thesis courses numbered in the sixties are open only to Seniors who are candidates for departmental honors; such courses are marked by a dagger (†).

I. DIVISION OF THE LANGUAGES, LITERATURE, AND ART

PROFESSORS BROWN (*Chairman*), ELLIOTT, FITZGERALD, KIEFFER, KUEHNEMUND, SCOFIELD, AND SEGALL, AND MESSRS. RODGERS AND TILGHMAN.

ART

Art 21. Survey of the History of Art. (III)

A survey of the history of art in Western Europe with special emphasis on the Greeks in the first half-year and on the Italian Renaissance in the second half-year.

M-W-F at 10.

PROFESSOR SCOFIELD.

[Art 31. The History of Painting in Western Europe.] (II)

From the beginnings to impressionism. During the first half-year special attention will be given to the Siense and Florentine primitives

and to the great painters of the Renaissance in Italy; during the second half-year to the Flemish primitives and to the Flemish, Dutch, and Spanish schools of the seventeenth century.

Pre-requisite: Art 21.

M-W-F at 9.

Omitted in 1934-35.

PROFESSOR SCOFIELD.

[Art 33 ¹hf. Nineteenth-Century Painting.] (II)

From David to Cezanne.

M-W-F at 9.

First half-year.

Omitted in 1934-35.

PROFESSOR SCOFIELD.

[Art 34 ²hf. Contemporary Art.] (II)

Studies in twentieth-century architecture, sculpture, and painting.

M-W-F at 9.

Second half-year.

Omitted in 1934-35.

PROFESSOR SCOFIELD.

ENGLISH

English 1. Grammar, Composition, and Prose Forms. (xv)

The course is intended to supply students with the elements of English grammar and the English language as a useful tool. Frequent papers; conferences; collateral reading. Required of all Freshmen unless they pass an anticipatory examination in grammar and composition. Does not count toward fulfillment of major or distribution.

Section A; T-Th-S at 10. MR. TILGHMAN.

Section B; T-Th-S at 9. MR. TILGHMAN.

Section C; M-W-F at 9. MR. RODGERS.

Section D; M-W-F at 1. MR. RODGERS.

English 21. Survey of English Literature. (IX)

A study of the main tendencies of English Literature from Beowulf to the present time, with readings in great or characteristic writers and

in social backgrounds. Required of all Sophomores who propose to major in English.

T-Th-S at 9.

PROFESSOR BROWN.

English 23. Contemporary Literature. (II)

A study of European and contemporary American art and social thought in poetry, prose fiction, and drama.

M-W-F at 9.

PROFESSOR SCOFIELD.

[English 24 ²hf. The Modern Drama.] (IX)

A course in rapid reading in the nineteenth- and twentieth-century drama, with special attention to the period after Ibsen.

T-Th-S at 9.

Second half-year.

Omitted in 1934-35.

PROFESSOR SCOFIELD.

English 29.1 ¹hf. Great Books. (III)

English 29.2 ²hf. Great Books.

A course designed for students who would like some familiarity with the great works of literature. The Bible, Homer, Dante, Shakespeare, Goethe, etc.

M-W-F at 10.

PROFESSOR BROWN.

[*English 31.2 ²hf. Advanced Composition.] (x)

Intended for students who wish further opportunity to practice composition. So far as possible, the work of the course will be covered in individual conferences.

T-Th-S at 10.

Second half-year.

Omitted in 1934-35.

[English 33. The Sixteenth and Seventeenth Centuries.] (XIII)

This course will study the poetry and prose of England from 1485 to 1650. Various types such as lyric poetry, voyaging narratives, picaresque fiction, and translations, will be examined in their relation to the English Renaissance.

T-Th from 2 to 3:30.

Omitted in 1934-35.

English 34 ¹hf. The Drama from 1588 to 1800. (x)

A study of the English drama, exclusive of Shakespeare, from Marlowe to Sheridan.

Pre-requisite: English 21.

T-Th-S at 10.

First half-year.

PROFESSOR SCOFIELD.

English 35. The Eighteenth Century. (x)

English literature from 1688 to the death of Shelley. The important writers of the Restoration, the eighteenth century, and the French Revolution will be studied with their political, social, and intellectual backgrounds.

T-Th-S at 10.

PROFESSOR BROWN.

English 37 ²hf. Victorian Poetry. (x)

The chief poets read will be Tennyson, Browning, Arnold, Swinburne, Morris, and Rossetti.

T-Th-S at 10.

PROFESSOR SCOFIELD.

[English 38. American Literature.]

Puritan and Colonial writings; the literature of the Revolution; the New England school; Cooper, Poe, Hawthorne, Melville, and Whitman; the Frontier and the South. When possible this literature will be studied as creative art, otherwise as the expression of national or sectional culture. Students electing this course are recommended to elect at the same time History 25.

M-W-F at 10.

Omitted in 1934-35.

PROFESSOR BROWN.

[English 39. American Literature from 1870.]

M-W-F at 1.

Omitted in 1934-35.

PROFESSOR BROWN.

[English 41. Chaucer.] (iv)

The *Prologue* and ten of the *Canterbury Tales* will be carefully read in class. In addition the minor poems, *The Book of the Duchess*, and *Troilus and Criseyde* will be studied less in detail. Other important works of the fourteenth century, especially *Gawain and the Green Knight* and *The Pearl* will be read.

M-W at 11.

Required of those English Majors who want the recommendation of the Department for graduate study.

Omitted in 1934-35.

English 45. Shakespeare. (v)

A general course with little emphasis on technical problems. In the first half-year the student will read about twenty plays, and make some study of social and cultural backgrounds. In the second half-year there will be a detailed examination of *Troilus and Cressida*, *Measure for Measure*, and the five great tragedies.

M-W-F at 1.

PROFESSOR BROWN.

English 49. The Novel. (ix)

A study of the novel primarily as a form of literary art, but with some attention to its sociological usefulness. In the first half-year the course will be concerned chiefly with the types and forms of the novel and the craftsmanship of the novelist. In the second half-year a few great novels, probably selected from the works of Tolstoy, Dostoevsky, Turgeniev, Balzac, and Stendhal, will be studied thoroughly. No one should elect the course who is not able to read a novel of average length each week. Open to Juniors.

T-Th-S at 9.

PROFESSOR SCOFIELD.

*English 50. Reading Course.

*English 53 ²hf. Reading Course.

MEMBERS OF THE DEPARTMENT.

*†English 60. Theses for Honors.

*†English 63 ²hf. Theses for Honors.

MEMBERS OF THE DEPARTMENT.

FRENCH

French 1. Beginning French. (XVI)

Elements necessary for acquiring the language: grammar, pronunciation, conversation, reading of simple texts, composition.

M-W-F at 11.

PROFESSOR ELLIOTT.

French 2. Intermediate French. (XIII)

Review of basic principles: grammar and composition, conversation, reading from the works of nineteenth century and contemporary authors.

Pre-requisite: French 1, or two years of high-school French.

Section A; M-W-F at 9. PROFESSOR ELLIOTT.

Section B; M-W-F at 10. PROFESSOR ELLIOTT.

French 11. Advanced French Prose. (IV)

Rapid reading from representative works of nineteenth-century prose; comprehensive collateral reading; reports.

Pre-requisite: French 2, or three years of high-school French.

M-W-F at 11.

PROFESSOR SEGALL.

French 13. French Composition and Conversation. (XIII)

Comprehensive outside reading of modern prose; reports in French.

Required of French Majors.

Pre-requisite: French 1, or two years of high-school French.

Th from 1 to 4.

PROFESSOR ELLIOTT.

French 17. History of French Literature and Civilization. (III)

From the origins to the present time. Lectures; comprehensive outside reading in English; weekly reports. No knowledge of French is required. Open only to men who stand in the first three groups of the rank list, and not open to Freshmen. May not be counted toward the major in French.

M-W-F at 10.

PROFESSOR SEGALL.

French 20. Survey of French Literature. (v)

A summary of French literature. Readings of representative works of the more important periods. A good knowledge of French is required.

Pre-requisite: French 11, or four years of high-school French.

M-W-F at 1.

PROFESSOR SEGALL.

[French 31. Eighteenth-Century French Literature.] (VI)

The literary movements of the Age of Reason and their relations to the social and political conditions of the period. Outstanding authors, such as Lesage, Marivaux, Montesquieu, Voltaire, Diderot, Rousseau, will be studied in some of their representative works. Comprehensive outside reading; theses. Students taking this course should be able to read French with ease.

Pre-requisite: French 11, or four years of high-school French.

M-W-F at 2.

Omitted in 1934-35.

PROFESSOR SEGALL.

French 41. Nineteenth-Century and Contemporary French Literature.

The literary tendencies of the age and the social and political conditions underlying them. The eighteenth-century precursors, the literature of the Empire, romanticism, realism, naturalism, symbolism, and neo-romanticism will be considered. Students taking this course should be able to read French with ease.

Pre-requisite: French 11, or four years of high-school French.

Hours to be arranged.

PROFESSOR SEGALL.

*French 50. Reading Course.

Subject to be arranged.

Pre-requisite: French 20.

PROFESSOR SEGALL.

*†French 62¹hf. Theses for Honors.

Pre-requisite: French 20.

First half-year.

PROFESSOR SEGALL.

GERMAN

German 1. Beginning German. (xvi)

Elements necessary for acquiring the language: grammar, pronunciation, conversation, reading of simple texts, composition.

M-W-F at 11.

PROFESSOR KUEHNEMUND.

German 10. Intermediate German. (ii)

Review of basic principles: grammar and composition; conversation; reading from works of nineteenth-century and contemporary authors.

Pre-requisite: German 1, or two years of high-school German.

M-W-F at 9.

PROFESSOR KUEHNEMUND.

German 20. Modern Literature. (vi)

Training to enable the student to translate German rapidly. Oral and written reports on prepared translation; sight translation.

Pre-requisite: German 10, or three years of high-school German.

M-W-F at 2.

PROFESSOR KUEHNEMUND.

German 21. Scientific German. (ix)

Intended for students specializing in the sciences.

Pre-requisite: German 10, or three years of high-school German.

T-Th-S at 9.

PROFESSOR KUEHNEMUND.

[*German 33. Advanced Composition and Conversation.] (vii)

Primarily for students who wish to acquire a better facility in writing and speaking German.

Required of German Majors.

Pre-requisite: Two years of college German or the equivalent.

M-F from 3 to 4:30.

Omitted in 1934-35.

[*German 35. Introduction to the History of German Civilization.] (v)

A lecture course in English, with outside reading and written reports. Open to Juniors and Seniors who want an opportunity to become acquainted with German life, thought, and art up to the end of the eighteenth century.

Pre-requisite: History 1 passed with grade of "C" or better.
M-W-F at 1.

Omitted in 1934-35.

PROFESSOR KUEHNEMUND.

*German 36. History of German Civilization during the Nineteenth and Twentieth Centuries. (v)

A lecture course in English, with outside reading and written reports. The course offers to any student an opportunity to become acquainted with German life, thought, and art during the nineteenth and twentieth centuries. Some account of the Germans in America will be included.

Pre-requisite: German 35, or History 21.

M-W-F at 1.

PROFESSOR KUEHNEMUND.

[German 40. Problems of Current German Life and Thought.] (xvi)

Open only to men majoring in German.

T at 7:30 p. m.

Omitted in 1934-35.

PROFESSOR KUEHNEMUND.

*German 50. Readings in German Literature and History.

Pre-requisite: A fluent reading knowledge of German.

PROFESSOR KUEHNEMUND.

*†German 60. Thesis for Honors.

This course is to be taken in connection with either German 40 or German 50. The work consists in the writing of a thesis in some special field chosen by the student with the approval of the instructor.

PROFESSOR KUEHNEMUND.

GREEK

Greek 1. Beginning Greek. (IV)

Elements of grammar and composition; readings in Greek prose. Emphasis upon the Greek element in the English language.

M-W-F at 11.

PROFESSOR KIEFFER.

[*Greek 23 ¹hf. History of Classical Mythology.] (x)

Study of the Myths as they appear in ancient and modern literature with discussion of the light they throw on early history and on social conditions. Knowledge of Greek and Latin not required.

T-Th-S at 10.

First half-year.

Omitted in 1934-35.

PROFESSOR KIEFFER.

[Greek 34 ²hf. History of Greek Tragedy.] (x)

A study of the extant Greek tragedies. A study of the development of the tragic form and of its influence on later literature and on the modern theatre. No knowledge of Greek is required.

T-Th-S at 10.

Second half-year.

Omitted in 1934-35.

PROFESSOR KIEFFER.

Greek 35. Readings in Greek Literature.

A conference course with material adapted to the needs of individual students. May be taken in successive years by properly qualified students.

Pre-requisite: Greek 1, or two years of high school Greek.

Hours to be arranged.

PROFESSOR KIEFFER.

LATIN

Latin 1. Beginning Latin. (x)

Elements of grammar and composition; readings in Latin-prose authors. For students who have had little or no Latin. May not be taken by students who have had any college Latin.

T-Th-S at 10.

PROFESSOR KIEFFER.

[*Latin 15. Roman Law.] (IX)

Readings principally from the *Institutes* of Justinian. Study of the development of legal procedure and the Roman constitution. For prospective law students. No pre-requisite.

T-Th-S at 9.

Omitted in 1934-35.

PROFESSOR KIEFFER.

Latin 35. Readings in Latin Literature.

A conference course with material adapted to the needs of individual students. May be taken in successive years by properly qualified students.

Pre-requisite: Latin 1, or two years of high school Latin.

Hours to be arranged.

PROFESSOR KIEFFER.

*Classics 50.

*Classics 51 hf.

Classics 50 and 51 hf are conference courses for majors in Classics or seniors in the first two groups of the rank list. Readings may be done in English.

Hours to be arranged.

PROFESSOR KIEFFER.

SPANISH

Spanish 1. Elementary Spanish. (I)

Elements necessary for acquiring the language: grammar, pronunciation, conversation, reading of simple texts, composition.

M-W-F at 8.

PROFESSOR FITZGERALD.

Spanish 2. Intermediate Spanish. (II)

Review of basic principles: grammar and composition; conversation; reading from the works of nineteenth-century and contemporary authors.

Pre-requisite: Spanish 1, or two years of high-school Spanish.

M-W-F at 9.

PROFESSOR FITZGERALD.

Spanish 11. Introduction to Spanish Literature. (VI)

A general view of Spanish literature, illustrated by reading from representative works of the more important periods. Collateral reading and reports.

Pre-requisite: Spanish 2, or three years of high-school Spanish. M-W-F at 2. [Other hours may be arranged.]

PROFESSOR FITZGERALD.

[Spanish 13. Spanish Composition and Conversation.] (VII)

A study of Spanish syntax; original compositions; practice in speaking Spanish. Required of all men majoring in Spanish.

Pre-requisite: Spanish 2, or the consent of the instructor.

M-W-F at 3.

Omitted in 1934-35.

PROFESSOR FITZGERALD.

Spanish 25 ¹hf. Spanish Life and Culture. (IV)

A study of the cultural background of Spanish civilization as seen in the literature, and to some extent in the art and architecture, of the Spanish people. No knowledge of Spanish required. Lectures, readings, discussions, reports.

Not open to Freshmen in September.

M-W-F at 11. [Other hours may be arranged.]

PROFESSOR FITZGERALD.

Spanish 25 ²hf. (The same course is repeated the second half year.)

Spanish 31. Modern Spanish Novel. (VII)

A study of the development of the Spanish novel from the nineteenth century on. Reading of novels from the more important authors; reports and discussions; individual collateral reading and reports.

Pre-requisite: Spanish 11, or four years of high-school Spanish.

M-W-F at 3. [Other hours may be arranged.]

PROFESSOR FITZGERALD.

[Spanish 41. Spanish Drama.]

Lectures on the literary movements affecting the drama. Reading of representative plays from the Golden Age to the present; discussion; collateral reading; reports.

Pre-requisite: Spanish 11, or four years of high-school Spanish.

M-W-F at 3.

Omitted in 1934-35.

PROFESSOR FITZGERALD.

*Spanish 50. The Romantic Movement in Spain.

*Spanish 51 hf. The Romantic Movement in Spain.

The ability to read Spanish fluently is necessary to these reading courses.

Pre-requisite: Spanish 11, or its equivalent.

PROFESSOR FITZGERALD.

*†Spanish 60. Honors Thesis Course.

*†Spanish 61 hf. Honors Thesis Course.

Subject to be chosen after conference between student and instructor. Students must be able to read Spanish fluently.

PROFESSOR FITZGERALD.

II. DIVISION OF THE SOCIAL SCIENCES AND PHILOSOPHY

PROFESSORS WYCKOFF (*Chairman*), ALLES, HUNTER, KINGSBURY, AND
McLAREN, DR. DUNCAN, AND MR. RODGERS.

ECONOMICS

See also Mathematics 25 ¹hf (The Mathematics of Finance), and
Mathematics 26 ²hf (Statistics).

Economics-Government 1.

(II) (VI)

An introduction to the study of the economic and political problems of today. This course, although not required, is strongly recommended for those Freshmen who expect to major in Economics or Government. Not open to Juniors or Seniors; or to Sophomores (Class of 1937) who intend to major in Economics or Government.

Section A; M-W-F at 9. DR. DUNCAN.

Section B; M-W-F at 2. DR. DUNCAN.

Economics 21. General Principles.

(III)

A study of the problems arising from the maintenance of life in a modern social group.

M-W-F at 10.

PROFESSOR WYCKOFF.

[Economics 23 ¹hf. Principles of Accounting.]

The purpose of the course is to explain the fundamentals of accounting statements, and the principles of analysis.

M at 1, F 1 to 3.

First half-year.

Omitted in 1934-35.

Economics 32 ¹hf. Money and Banking. (x)

Fiscal and monetary problems; the banking system and its relation to business needs.

Pre-requisite: Economics 21.

T-Th-S at 10.

PROFESSOR WYCKOFF.

Economics 33 ²hf. Investment and Speculation. (x)

An analysis of securities and the principles underlying investments.

Open to Juniors and Seniors. No pre-requisite.

T-Th-S at 10.

PROFESSOR WYCKOFF.

Economics 34 ¹hf. International Economic Problems. (III)

This course will consist of discussions, readings, reports, and papers on selected problems in international business cycles, international control of raw materials, and economic imperialism.

Pre-requisite: Economics 21.

M-W-F at 10.

DR. DUNCAN.

Economics 35 ²hf. Government and Industry. (III)

This course will center its attention on the problems of government regulation of economic activity. It will begin with that portion of industry where Government supervision is now most extensive, namely: public utilities; it will conclude with a study of the increasing social control of all types of business enterprise.

Pre-requisite: Economics 21.

M-W-F at 10.

DR. DUNCAN.

[Economics 38 ¹hf. Introduction to Business.] (x)

A study of the principles of the organization of industrial enterprises.

Pre-requisite: Economics 21.

T-Th-S at 10.

First half-year.

Omitted in 1934-35.

PROFESSOR WYCKOFF.

[Economics 39 ²hf. Forms of Social Organization.] (x)

A survey will be made of the more important economic forms of society—the philosophies and programs.

Pre-requisite: Economics 21.

T-Th-S at 10.

Second half-year.

Omitted in 1934-35.

PROFESSOR WYCKOFF.

Economics 40. Advanced Economics. (IV)

A conference course in economic theory and the major subjects of economic controversy.

Open only to Seniors majoring in Economics.

M at 11, and individual conferences.

PROFESSOR WYCKOFF AND DR. DUNCAN.

*Economics 50. Readings in Economics.

*Economics 51 hf. Readings in Economics.

*Economics 52 ¹hf. Readings in Economics.*Economics 53 ²hf. Readings in Economics.

Conference courses open to Juniors and Seniors who are interested in Economics and are willing to read extensively.

Pre-requisite: Economics 21.

Hours to be arranged.

PROFESSOR WYCKOFF.

*†Economics 60. Theses for Honors.

PROFESSOR WYCKOFF.

GOVERNMENT

Economics-Government 1. (See under ECONOMICS.)

Government 21. Comparative Government. (IX)

A survey of the types of modern government. Comparison of the structure and functioning of typical foreign governments with that of the United States. Required of all students majoring in Government.

Not open to Freshmen.

T-Th-S at 9.

PROFESSOR KINGSBURY.

Government 31. History of Political Ideas. (III)

Theories of politics and of government from classical times to the present day, showing the evolution of systematic political thought, and the bases of modern political ideas. The ideas of political thinkers on such subjects as the origin of the state, bases of political authority, sovereignty, democracy, socialism, communism, fascism, and the like, will be studied.

Pre-requisite: Economics-Government 1, or Government 21. M-W-F at 10.

PROFESSOR KINGSBURY.

[Government 32. Government in the United States.] (III)

A more advanced and systematic study of American political institutions and practices, with emphasis on constitutional development; relations between State and National governments; the growth of administrative activities; political parties and other agencies of public opinion.

Pre-requisite: Economics-Government 1, or Government 21. M-W-F at 10.

Omitted in 1934-35.

PROFESSOR KINGSBURY.

Government 41. International Politics. (II)

A survey of present-day factors affecting international relations: nationalism, imperialism, armaments, trade rivalries, etc.; the development of international cooperation and the peaceful settlement of international disputes, with particular reference to the League of Nations, the World Court, international conferences, and the evolution of a law of nations.

Pre-requisites: at least two of the following courses: Government 21, Government 31, Economics 34 ¹hf, History 38.

M-W-F at 9.

PROFESSOR KINGSBURY.

Government 43 ¹hf. Political Parties. (XII)

The history, organization, functions, and methods of political parties particularly in the United States. Topics studied will include nominating and election methods, the boss, the machine, the spoils system, campaign methods, and the problems of government by public opinion.

Pre-requisites: At least three of the following courses: History 25, Government 21, Government 31, Government 32. T-Th from 1 to 2:30.

First half-year.

PROFESSOR KINGSBURY.

Government 44 ²hf. Constitutional Law. (XII)

A study of the leading cases in American constitutional law illustrating the evolution of governmental powers and the rights of individuals under the constitution.

Pre-requisites: At least three of the following courses: Economics-Government 1, Government 32, Economics 35, History 39.

T-Th from 1 to 2:30.

Second half-year.

PROFESSOR KINGSBURY.

*Government 50. Reading Course.

*Government 51 hf. Reading Course.

*Government 52 ¹hf. Reading Course.

*Government 53 ²hf. Reading Course.

PROFESSOR KINGSBURY AND DR. DUNCAN.

*†Government 60. Theses for Honors.

PROFESSOR KINGSBURY.

HISTORY

History 1. European History from the Fall of Rome to the Present Time. (III)

A general survey of the political, economic, religious, and intellectual history of Europe since 476 A. D. A pre-requisite for men majoring in history.

M-W-F at 10.

MR. RODGERS.

History 11. History of Greece and Rome. (x)

The political and social history of ancient times.

T-Th-S at 10.

PROFESSOR KIEFFER.

History 21. Mediæval European History. (IV)

A course in the foundations of modern Europe from the breakdown of the Roman Empire in the west to the establishment of the national state.

M-W-F at 11.

MR. RODGERS.

History 22. Modern European History. (I)

An outline of the history of Europe from the emergence of the national state to the present.

M-W-F at 8.

PROFESSOR HUNTER.

[History 23. English History.] (III)

A survey of English history.

M-W-F at 10.

Omitted in 1934-35.

PROFESSOR HUNTER.

History 25. The History of the United States. (v)

A survey of United States history from colonial times to the present.

M-W-F at 1.

PROFESSOR HUNTER.

[History 37. History of the Renaissance.] (XIII)

Th from 2 to 4.

Omitted in 1934-35.

History 38. History of Europe Since 1870. (IX)

The study of the political and economic development of Europe since the unification of Germany and Italy, with particular attention to the post-war years and current development in world affairs.

Pre-requisite: History 1 or History 22.

T-Th-S at 9.

PROFESSOR HUNTER.

History 39. History of the United States Since 1865. (IV)

The principal emphasis in this course will be placed upon the economic and social aspects of American development during the past seventy years.

Pre-requisite: History 25.

M-W-F at 11:

PROFESSOR HUNTER.

[History 42. History of American Life.] (XIII)

This course will deal with a selected phase of the history of American life approached from the point of view of the common man.

Pre-requisite: History 25 or its equivalent.

T from 2 to 4.

Omitted in 1934-35.

PROFESSOR HUNTER.

*History 50. Reading Course.

*History 51 hf. Reading Course.

The reading courses in history are intended particularly for Seniors who are majoring in history, and normally they are open only to such students. To be eligible for a reading course, a student must have completed three full courses in history, with grades of B or better in two of them. The approval of the Department is also necessary in each case.

Oral and written reports.

MEMBERS OF THE DEPARTMENT.

*†History 60. Theses for Honors.

*†History 61 hf. Theses for Honors.

MEMBERS OF THE DEPARTMENT.

PHILOSOPHY

Philosophy 11 hf. Logic. (XI)

The course is chiefly concerned with the study of valid and invalid forms of reasoning in deductive and inductive logic.

Open to qualified Freshmen after consultation with the instructor.

T-Th-S at 11.

First half-year.

PROFESSOR ALLES.

Philosophy 12 ²hf. Introduction to Philosophy. (XI)

The course deals with such problems in philosophy as the origin and nature of human knowledge; the origin and development of life; the problem of matter and of mind and their relation; God; freedom; and immortality.

Open to qualified Freshmen after consultation with the instructor.

T-Th-S at 11.

Second half-year.

PROFESSOR ALLES.

Philosophy 15. Ethics. (IX)

A study of the moral development of mankind from primitive man to the present, with special emphasis on such outstanding ethical systems as Buddhism, Christianity, Greek Ethics (Plato and Aristotle), Stoicism, Kant, etc.

Open to qualified Freshmen after consultation with the instructor.

T-Th-S at 9.

PROFESSOR ALLES.

Philosophy 31. History of Philosophy. (X)

A study of philosophic speculation from the early Greeks to modern times.

T-Th-S at 10.

PROFESSOR ALLES.

[Philosophy 34 ²hf. Locke; Berkeley; Hume.] (VI)

An interpretation of their philosophy based on the reading of their works.

Pre-requisite: Philosophy 12 ²hf or 31, or the permission of the instructor.

M-W-F at 2.

Second half-year.

Omitted in 1934-35.

PROFESSOR ALLES.

[Philosophy 35 ¹hf. History of Religion.] (VII)

A study of the development of religion including primitive religion (Mana, Fetiches, Magic), Buddhism, Zoroastrianism, Judaism, Mohammedanism, and Christianity.

M-W-F at 3.

First half-year.

Omitted in 1934-35.

PROFESSOR ALLES.

[Philosophy 36 ²hf. Psychology and Philosophy of Religion.] (VII)

The course falls into two parts:

1. The psychology of religion in which are studied the contributions of modern psychology toward an understanding of religion and the different types of religious experience.
2. The philosophy of religion which tests the validity of the claim which religion makes, *i. e.*, it wants to know whether that which religion claims is true.

Pre-requisite: A half-course in Philosophy or Psychology, or the permission of the instructor.

M-W-F at 3.

Second half-year.

Omitted in 1934-35.

PROFESSOR ALLES.

Philosophy 38. Conceptions of Immortality. (VI)

A study of different conceptions of immortality covering primitive, Babylonian, Egyptian, Hebrew, early Christian, and Greek conceptions as well as those of outstanding western thinkers (philosophers and scientists) down to the present.

Pre-requisite: Philosophy 12 ²hf, or 31, or 35 ¹hf, or the consent of the instructor.

M-W at 2.

PROFESSOR ALLES.

Philosophy 41 ¹hf. Plato. (VII)

An interpretation of Plato's philosophy based on the reading of his dialogues including the **REPUBLIC**.

Pre-requisite: Philosophy 31.

M-W-F at 3.

First half-year.

PROFESSOR ALLES.

Philosophy 42 ²hf. Schopenhauer. (VII)

An interpretation of Schopenhauer's philosophy based on the reading of **THE WORLD AS WILL AND IDEA.**

Pre-requisite: Philosophy 31.

M-W-F at 3.

Second half-year.

PROFESSOR ALLES.

*Philosophy 50. Reading in Philosophy.

*Philosophy 51 hf. Reading in Philosophy.

Field or subject to be determined after consultation with the student.

PROFESSOR ALLES.

*†Philosophy 60. Theses for Honors.

*†Philosophy 61 hf. Theses for Honors.

The work consists in the writing of a thesis in some field or on a subject chosen by the student after consultation with the instructor.

PROFESSOR ALLES.

PSYCHOLOGY

*Note concerning Educational Psychology:

Any student who wishes to take a year's work in Educational Psychology should, after securing permission from the instructor, register in Psychology 50. Psychology 13 ⁴hf must also be taken, unless the student already has credit for a Psychology course offered at St. John's College; and Psychology 14 ²hf should be taken.

Psychology 13 ¹hf. Introduction to Education. (XI)

This is not to be a technical course either in what is called Educational Psychology or in what is called the History of Education. It is, rather, to be a survey from an historical point of view, and from a psychological and sociological point of view, of educational theories, and is designed primarily for first and second year students; the purpose being to assist students as soon as possible after they enter college, to arrive at a workable and integrated understanding of the meaning of a liberal and humane education in a rapidly changing society. The basic text will probably be Joseph K. Hart's "Creative Moments in Education."

T-Th-S at 11.

PROFESSOR McLAREN.

Psychology 14 ²hf. Mental Hygiene. (XI)

This course, like Psychology 13 ⁴hf, will be designed primarily for first and second year men. It will be only incidentally a course in abnormal psychology.

T-Th-S at 11.

PROFESSOR McLAREN.

Psychology 27. Social Psychology. (II)

A study of the integration and development of the human personality and character within a society. Emphasis will be placed upon the postulate that man is a socialized animal; and social psychology will be considered to be organismic and biological psychology, or bionomics. The different schools of social psychology will be examined and discussed. Open, with the consent of the instructor, to any Senior regardless of pre-requisite requirement. This course should be taken by Social Science majors.

Pre-requisite: Either one year of Psychology, or one year of Biology, or one year of Philosophy.

M-W-F at 9.

PROFESSOR McLAREN.

Psychology 29. General Psychology. (IV)

A technical and scientific study of human behavior. Emphasis will be placed on a bio-social and physiological approach. The different modern schools of Psychology will be discussed. Open; with the consent of the instructor, to any Senior, regardless of pre-requisite requirement.

Pre-requisite: One year of Biology or one year of Philosophy.

The pre-requisite course may be taken concurrently with the course.

M-W-F at 11.

PROFESSOR McLAREN.

*Psychology 50. Reading Course.

*Psychology 51 hf. Reading Course.

*Psychology 52 ¹hf. Reading Course.

*Psychology 53 ²hf. Reading Course.

These reading courses are intended for students who are in earnest about reading intensively and extensively in the field of Psychology.

Conferences and assigned papers. Not open to students who have a grade below C in the pre-requisite courses. No examinations.

Pre-requisite: Two full years of Psychology; or one year of Psychology and one year of Biology; or one year of Psychology and one year of Philosophy.

*Psychology 60. Theses for Honors.

PROFESSOR MCLAREN.

III. DIVISION OF THE SCIENCES AND MATHEMATICS

PROFESSORS EASON (*Chairman*), ALLEN, APPEL, BAYLIFF, BERNHARD, BINGLEY, MCFARLIN, RIDGELY, AND VEDOVA.

BIOLOGY

Biology 10 ²hf. Biology and Human Social Welfare. (XIII)

Population problems; food supply; climate and the geographical distribution of human progress; heredity and environment; the effects of mal-nutrition, disease, parasites, war.

T-Th from 2.30 to 4.

Second half-year.

PROFESSOR APPEL.

Biology 11. Beginning Zoölogy. (IV, VIII)

An introduction to animal biology. General principles of morphology, physiology, ecology, histology, genetics, embryology, etc., and a survey of the common groups of animals. Two hours of recitation and six hours of laboratory.

Laboratory fee, \$10.00 per half-year.

Section A; Recitation, M-F at 11.

Laboratory, W-F from 1 to 4.

PROFESSOR RIDGELY.

Section B; (Pre-medical students).

Recitation, T-Th at 8.

Laboratory, T-Th from 1 to 4.

PROFESSOR BAYLIFF.

Biology 14 ¹hf. Readings in Biology. (XII)

This course is intended for students who are not majoring in the sciences, but who wish some cultural knowledge of them. It will not be credited for distribution as a laboratory science. The course will cover biological literature which is of a general rather than a technical interest. The content of the course will vary from year to year. Three hours weekly.

Open only to upperclassmen who have had no biology.

T-Th from 1 to 2:30.

First half-year.

PROFESSOR RIDGELY.

[*Biology 15 ²hf. Ecology.]

Observation of local animals and plants in their native habitats, both land and water; and an introduction to some methods of studying animal communities.

Laboratory fee, \$10.00.

Hours to be arranged (eight hours a week).

Second half-year.

Omitted in 1934-35.

PROFESSOR APPEL.

*Biology 16 ²hf. Physiology.

A general study of vital processes. The physico-chemical nature of life and its relationship to the environment.

Laboratory fee, \$10.00.

Hours to be arranged (eight hours a week).

Second half-year.

PROFESSOR APPEL.

Biology 19 ²hf. General Embryology.

Studies in the cellular basis of development. An attempt to analyze the early formative processes in terms of hereditary and environmental factors.

Pre-requisite: Biology 11.

Laboratory fee, \$10.00.

Hours to be arranged (eight hours a week).

Second half-year.

PROFESSOR APPEL.

[Biology 20 ¹hf. Invertebrate Zoology.]

The morphology and evolution of the invertebrates. Some attention to larvae, to extinct groups, and to groups of uncertain phylogenetic position. Many of the specimens to be used in the laboratory are deep-sea and mid-Atlantic forms taken by the "Atlantis" in 1931 and 1933. The specimens were given to the department through the kindness of Doctor Henry B. Bigelow of the Oceanographic Institute, and Mr. Joseph S. Bigelow of Annapolis. Two hours of recitation and six hours of laboratory.

Laboratory fee, \$10.00.

Hours to be arranged.

First half-year in alternate years.

Omitted in 1934-35.

PROFESSOR BAYLIFF.

Biology 21 ¹hf. Comparative Anatomy of Vertebrates. (III)

A history of the successive types of structure found in the higher animals. An introduction to human anatomy. Two hours of recitation and six hours of laboratory.

Pre-requisite: One year of college biology.

Laboratory fee, \$10.00.

Recitation, W-F at 10.

Laboratory, T-Th from 9 to 12.

First half-year.

PROFESSOR APPEL.

Biology 22 ²hf. Embryology of Vertebrates. (III)

A further study of the higher types of animal structure as seen in developmental anatomy. An introduction to human biology. Two hours of recitation and six hours of laboratory.

Pre-requisite: One year of college biology.

Laboratory fee, \$10.00.

Recitation W-F at 10.

Laboratory, T-Th from 9 to 12.

Second half-year.

PROFESSOR RIDGELY.

Biology 30 ¹hf. Histology. (I)

The comparative study of normal cells and tissues. Two hours of recitation and six hours of laboratory.

Pre-requisites: Biology 21 ¹hf and 22 ²hf.

Laboratory fee, \$10.00.

Recitations, W-F at 8.

Laboratory, M from 1 to 4, W from 7 to 10.

First half-year.

PROFESSOR APPEL.

*Biology 33 ²hf. Microscopical Technique.

Histological and cytological methods, and their bearing on the study of protoplasmic structure. Two hours of recitation and six hours of laboratory.

Pre-requisite: Biology 19 ²hf or 30 ¹hf.

Laboratory fee, \$10.00.

Hours to be arranged.

Second half-year.

PROFESSOR APPEL.

Biology 34 ²hf. Genetics.

A study of the principles of heredity and variation, and of the relation of these to each other and to evolution. Laboratory work to consist of breeding experiments with different strains of *Drosophila* and of calculations in practical breeding problems. Three hours of recitation and four hours of laboratory.

Pre-requisite: Biology 11 or the equivalent. Biology 19 ²hf is recommended.

Laboratory fee, \$10.00.

Hours to be arranged.

Second half-year.

PROFESSOR BAYLIFF.

Biology 37 ¹hf. Parasitology.

Evolutionary and general biological significance of the parasitic mode of life. Consideration of the ecological relationships between parasite and host. Internal parasites only; chiefly those of vertebrates. Laboratory work largely on the morphology and life history of representative

forms infesting mammals. Two hours of recitation and six hours of laboratory.

Pre-requisite: Biology 11 or the equivalent; Biology 20 ¹hf recommended.

Laboratory fee, \$10.00.

Hours to be arranged.

First half-year in alternate years.

PROFESSOR BAYLIFF.

Marine Biology.

Advanced students, particularly biology majors, are urged to take at least one summer course at some marine biological laboratory. The season of the year and the diversity of animals available at such institutions combine to give the student opportunities for study which cannot be duplicated during the regular school year. With the approval of the department courses taken at a marine laboratory may be counted toward the fulfillment of the requirements for a biology major, or the requirements for the degree.

To encourage and assist worthy biology and pre-medical students to attend such laboratories, the College offers annually a scholarship applicable either at the Biological Laboratory, Cold Spring Harbor, Long Island, New York, or at the Marine Biological Laboratory, Woods Hole, Massachusetts.

*Biology 52 ¹hf. Readings for Advanced Students.

A three-hour course of intensive independent reading, with conferences weekly. Ordinarily topics will be assigned, but students may choose topics of their own on suitable subjects not covered by other courses. Students who wish to prepare for Biology 63 ²hf will be assigned readings leading to thesis subjects.

First half-year.

Individual conferences.

PROFESSORS RIDGELY, APPEL, AND BAYLIFF.

*†Biology 63 ²hf. Theses for Honors.

Individual problems involving laboratory work and reading equivalent in amount to the work of an eight-hour laboratory course. A short thesis will be required of each student, summarizing the results of his work.

Pre-requisite: Three years of college biology.

PROFESSORS RIDGELY, APPEL, AND BAYLIFF.

CHEMISTRY

Chemistry 1. General Chemistry. (III)

An introductory course in which phenomena of chemistry and the underlying principles are studied. Lectures are given with experiments on the elements and their compounds. This is a cultural course intended for students who will not take their major in the sciences. Two hours of lectures, one hour of recitation, and four hours of laboratory. An extra hour will be required of all students having difficulties with the course.

Laboratory fee, \$25.00 and breakage.

Section A; Recitation, M-W-F at 10.

Laboratory, T-Th from 10 to 12.

Section B; Recitation, M-W-F at 10.

Laboratory, T-Th from 2 to 4.

Make-up for both sections, M at 1.

PROFESSORS ALLEN AND McFARLIN.

Chemistry 2. General Chemistry for Science Students. (III)

A more comprehensive course in General Chemistry; the same course as Chemistry 1 with the exception that the Friday recitation is conducted separately from Chemistry 1. The lectures and laboratory work will include topics which are in part introductory to Qualitative Analysis. Two hours of lectures, one hour of recitation, and four hours of laboratory. Required of all students majoring in Biology, Chemistry, and Physics. An extra hour will be required of all students having difficulties with the course. Students who at the beginning of their Sophomore year choose a science as their major and have taken Chemistry 1 must take the one-hour recitation given in Chemistry 2 on Friday.

Laboratory fee, \$25.00 and breakage.

Section A; Recitation, M-W-F at 10.

Laboratory, T-Th from 10 to 12.

Section B; Recitation, M-W-F at 10.

Laboratory, T-Th from 2 to 4.

Make-up for both sections, M at 1.

PROFESSORS BERNHARD, ALLEN, AND McFARLIN.

Chemistry 21 ¹hf. Qualitative Analysis. (XII)

The aim of this course is to give to the student a thorough grounding in the principles involved in the detection of unknown substances. In

the lectures and recitations special emphasis is given to the theoretical foundations of analytical chemistry. The laboratory work is devoted to the qualitative analysis of "unknowns" and to the separation and identification of the metals and acid radicals usually met with in inorganic chemistry. Two hours of lectures and recitations and six hours of laboratory.

Pre-requisites: Chemistry 2 and Mathematics 11.

Laboratory fee \$15.00 and breakage.

Recitation, T-Th at 1.

Laboratory, W-F from 1 to 4.

First half-year.

PROFESSOR MCFARLIN.

Chemistry 22 ²hf. Quantitative Analysis, Part I. (v)

The theory of volumetric and gravimetric analysis. Exercises in acidimetry and alkalimetry, and gravimetric determination of simple compounds. One hour lecture and eight hours of laboratory.

Pre-requisite: Chemistry 21 ¹hf.

Laboratory fee, \$15.00 and breakage.

Recitation, M at 1.

Laboratory, M from 2 to 4. W-F from 1 to 4.

Second half-year.

PROFESSORS ALLEN AND MCFARLIN.

Chemistry 31 ¹hf. Quantitative Analysis, Part II. (v)

Continuation of Part I, including volumetric and gravimetric methods for the determination of salts, minerals, and alloys. One hour lecture and eight hours of laboratory.

Pre-requisite: Chemistry 22 ²hf.

Laboratory fee, \$15.00 and breakage.

M-W-F from 1 to 4.

First half-year.

PROFESSOR ALLEN.

Chemistry 32 ²hf. Physical Chemistry, Part I. (I)

Substances in the gaseous, liquid, and solid states; the structure of matter; energy changes; chemical equilibria; and substances in dilute solution form the basis of study. The laboratory work includes de-

terminations of molecular weights, measurements of physical properties, etc. Three hours of lectures and four hours of laboratory.

Pre-requisites: Chemistry 21 ¹hf and Mathematics 21.

Laboratory fee, \$15.00 and breakage.

Recitation, M-W-F at 8.

Laboratory, W 1 to 5.

Second half-year.

PROFESSOR ALLEN.

Chemistry 33. Organic Chemistry. (IV)

An introductory course in the chemistry of carbon compounds. The lectures and laboratory are designed to give a fundamental knowledge of the representative compounds of the aliphatic and aromatic series and their reactions. Two hours of lectures and recitation and six hours of laboratory.

Pre-requisite: Chemistry 1 or 2.

Laboratory fee, \$25.00 and breakage.

Recitation, M-W at 11.

Laboratory, T-Th from 1 to 4.

PROFESSOR BERNHARD.

Chemistry 42. Advanced Organic Chemistry. (VIII)

Selected topics of organic chemistry are discussed in greater detail. Readings in the original literature are assigned. The laboratory work in the first half-year includes quantitative organic analysis and the preparation of organic compounds. During the second half-year students majoring in chemistry are expected to concentrate on some small research problem. Two hours of lectures and six hours of laboratory.

Pre-requisite: Chemistry 33.

Laboratory fee, \$25.00 and breakage.

Recitation, T-Th at 8.

Laboratory, T-Th from 9 to 12.

PROFESSOR BERNHARD.

Chemistry 43 ¹hf. Physical Chemistry, Part II. (IV)

The topics treated include electrochemistry, theory of strong electrolytes, colloid chemistry, and photochemistry. Three hours of lectures

and recitations with reports on assigned reading in the original literature.

Pre-requisites: Chemistry 32 ²hf; ability to read French and German.

M-W-F at 11.

First half-year.

PROFESSOR ALLEN.

*Chemistry 52 ¹hf. Readings in Chemistry. (VI)

A reading and seminar course in the history of chemistry. Three hours.

Pre-requisites: Chemistry 21 ¹hf and 33.

M-W-F at 2.

First half-year.

PROFESSOR BERNHARD.

*†Chemistry 60. Thesis and Laboratory Work.

*†Chemistry 61 hf. Thesis and Laboratory Work.

Laboratory fee, \$25.00 for the full course (eight hours);

\$15.00 for the half-course (four hours).

PROFESSORS BERNHARD AND ALLEN.

MATHEMATICS

Mathematics 1 ¹hf. Algebra. (I)

This course is required of students who have failed to present sufficient algebra for admission. The subject matter of secondary school algebra through the solution of quadratic equations is thoroughly reviewed. No credit toward the degree.

M-W-F at 8.

First half-year.

PROFESSOR VEDOVA.

Mathematics 2 ²hf. Plane Geometry. (I)

This course is required of all students who have not offered plane geometry for admission. No credit toward the degree.

M-W-F at 8.

Second half-year.

PROFESSOR VEDOVA.

Mathematics 11. Introduction to Mathematical Analysis. (XII)

This course aims to give a survey of the essentials of trigonometry, college algebra, and analytic geometry. The two-fold purpose of mathematical study is emphasized: to enable the student to use mathematical

processes as a tool in his scientific studies, and to enable him to recognize the cultural value of rigorous thinking.

Section A; M-W-F at 9. PROFESSOR VEDOVA.

Section B; T-Th-S at 9. PROFESSOR BINGLEY.

Section C; T-Th-S at 11. PROFESSOR BINGLEY.

Mathematics 21. Differential and Integral Calculus. (III)

Methods of differentiation, series, indeterminate forms, etc., with the simpler applications to mechanics and the higher plane curves. Formulas of integration, with applications to the determination of length, areas, volumes, centers of gravity, pressures and moments of inertia.

Pre-requisite: Mathematics 11.

M-W-F at 10.

PROFESSOR BINGLEY.

Mathematics 25 ¹hf. The Mathematics of Finance. (IV)

Derivation and application of general formulas for the value of single sums of money, annuities certain, life annuities, and life insurance.

M-W-F at 11.

First half-year.

PROFESSOR BINGLEY.

Mathematics 26 ²hf. Statistical Methods. (IV)

A study of the classical and recent statistical methods.

M-W-F at 11.

Second half-year.

PROFESSOR BINGLEY.

Mathematics 31. Mathematical Analysis, Part I. (IX)

An advanced course in the calculus with an introduction to differential geometry. The applications of mathematical analysis to the physical sciences are stressed.

Pre-requisite: Mathematics 21.

T-Th-S at 9.

PROFESSOR VEDOVA.

Mathematics 33. Higher Algebra. (XI)

In this course such topics as matrices, linear transformations, forms, etc., are studied with a view to preparing the student for further work in pure mathematics.

Pre-requisite: Mathematics 21.

T-Th-S at 11.

PROFESSOR VEDOVA.

Mathematics 35. The Elements of Mechanics. (x)

The principles of statics and dynamics, with applications to particles and rigid bodies.

Pre-requisite: Mathematics 21.

T-Th-S at 10.

PROFESSOR BINGLEY.

Mathematics 41. Mathematical Analysis, Part II. (xi)

A continuation of Mathematics 31 with an introduction to differential equations and functions of a complex variable. The partial differential equations of physics are studied.

Pre-requisite: Mathematics 31.

T-Th-S at 11.

PROFESSOR VEDOVA.

Mathematics 43. Introduction to Modern Geometry.

Pre-requisite: Mathematics 33.

Hours to be arranged.

PROFESSOR VEDOVA.

Mathematics 45. Differential Equations. (viii)

Intended primarily for the student of physics or engineering, this course emphasizes applications to geometry and physics and aims to equip the student with some of the means used for the ready solution of the commoner types of equations, rather than to impart to him any extensive knowledge of the underlying theory.

T-Th-S at 8.

PROFESSOR VEDOVA.

*Mathematics 50. Reading Course. (iii)

The subject or subjects will be determined in consultation with the instructor.

M-W-F at 10.

PROFESSOR VEDOVA.

*Mathematics 53²hf. Selected Topics in the History of Science.

A reading course in topics selected from the history of the natural sciences and mathematics of the Greek period, the Renaissance, and the seventeenth and eighteenth centuries in Europe.

Conference hours to be arranged.

PROFESSOR BINGLEY.

*†Mathematics 63²hf. Theses for Honors.

The subject of each thesis will be decided upon after consultation with the instructor, and will be based, if possible, upon the reading done in Mathematics 50.

Conference hours to be arranged.

PROFESSOR VEDOVA.

PHYSICS

Physics 21. Elements of Physics. (viii)

This course covers the elements of mechanics, heat, electricity, magnetism, sound, and light. It is designed to give the student an acquaintance with, and an explanation of, the natural phenomena which envelop his daily life. Three hours of recitation and four hours of laboratory.

Pre-requisite: Mathematics 11 or Plane Trigonometry.

Laboratory fee, \$20.00 and breakage.

Section A; Recitation, T-Th-S at 8.

Laboratory, T-Th from 2 to 4.

Section B; Recitation, T-Th-S at 8.

Laboratory, W-F from 2 to 4.

PROFESSOR EASON.

Physics 31. Electricity and Magnetism. (i)

Beginning with the fundamental ideas underlying electrical science, this course explains how such principles may be applied in industry, the arts, and to the problems of everyday life. Three hours of recitation and four hours of laboratory.

Pre-requisites: Physics 21 and Mathematics 11.

Laboratory fee, \$20.00 and breakage.

Recitation, M-W-F at 8.

Laboratory, T-Th from 2 to 4.

PROFESSOR EASON.

[Physics 41. Physical Optics.]

This course deals with the subject of light very thoroughly, both from the physical and mathematical points of view and terminates with a short study of the theory of relativity. The student must realize that the subject of light is a broad one and requires thorough preparation

in mathematics and chemistry. He will be expected to read much from the available literature and to do considerable laboratory work.

Pre-requisites: Physics 21; Mathematics 31 (which may be taken concurrently); Chemistry 2.

Laboratory fee, \$20.00 and breakage.

Recitation, T-Th-S at 9.

Laboratory, T-Th from 2 to 4.

Omitted in 1934-35.

PROFESSOR EASON.

[Physics 42. Theory of Heat.]

An attempt is made to acquaint the student with the modern theory regarding the nature of heat and its practical application. The course will be carried on both by text-book readings and lectures. Much parallel reading will be assigned throughout the year and extensive laboratory work done.

Pre-requisites: Physics 21; Mathematics 21; Chemistry 2.

Laboratory fee, \$20.00 and breakage.

Recitation, M-W-F at 8.

Laboratory, W-F from 2 to 4.

Omitted in 1934-35.

PROFESSOR EASON.

Physics 43. Electricity.

(II)

This is an advanced course in Electricity. The treatment is largely mathematical supplemented with appropriate laboratory experiments. The historical development of the subject is followed closely. Some account of positive ray analysis, isotopes, and the modern theory of the atom is included. The latter part of the course is devoted to the study of the theory and practice of wireless telegraphy and telephony. Three hours of recitation and four hours of laboratory.

Pre-requisites: Physics 21; Mathematics 21. It is strongly advised that Mathematics 31 be taken concurrently.

Laboratory fee, \$20.00 and breakage.

Recitation, M-W-F at 9.

Laboratory, T-Th from 2 to 4.

PROFESSOR EASON.

*Physics 50. Reading Course.

(XII)

Independent reading of books and current periodicals covering some particular field of physics. Frequent conferences.

Pre-requisite: Physics 21.

T at 1.

PROFESSOR EASON.

*†Physics 60. Theses for Honors.

PROFESSOR EASON.

Hygiene 1. General Principles of Hygiene.

Lectures on the science of health. Biology; the supply of oxygen and the elimination of carbon dioxide; food and the digestion of foods; heat regulation of the body; removal of waste material from the body; physical exercise; the nervous system; mental hygiene; diseases in general; particular diseases.

One lecture each week for ten weeks, beginning with the second Monday in October.

Required of all freshmen.

M at 4.

DR. MURPHY.

Physical Training 1.

Three hours a week required of all freshmen. A thorough physical examination by the College Physician is required of all entering men. All men competing for teams are excused from taking regular class work while reporting regularly for any varsity sports. Required physical training consists of outdoor competitive games in the fall; apparatus work, hand ball, indoor baseball, cage ball, basketball, and other competitive sports in the winter; with outdoor competitive sports again in the spring.

Section A; M-W-F at 3.

Section B; M-W-F at 4.

MR. LENTZ.

Physical Training 2.

Advanced course in physical training. Two years of physical training are required of all students. Students who fail to fulfill the requirements in physical training will not be allowed to graduate.

Open only to those men who have passed satisfactorily in Physical Training 1.

T-Th from 3 to 4.30.

MR. LENTZ.

REQUIREMENTS FOR MAJORS

Biology.

Four full courses (or their equivalent) in biology:

Some work in each of the basic branches of the subject, if possible, such as ecology, physiology, embryology, morphology, and genetics. Courses 20 ¹hf, 21 ¹hf, 22 ²hf, and 30 ¹hf are primarily morphological;

Two full courses (or their equivalent) in chemistry including comprehensive general chemistry and organic chemistry:

Additional work may be recommended in analytical and physical chemistry;

The language requirements are two years of college French (or their equivalent) and two years of college German (or their equivalent).

A reading knowledge of these languages is desirable as a preparation for graduate study. (Courses taken in satisfaction of these language requirements may be counted toward distribution.)

Chemistry.

Chemistry 2 (Comprehensive General Chemistry);

Chemistry 21 ¹hf (Qualitative Analysis);

Chemistry 22 ²hf (Quantitative Analysis, Part I);

Chemistry 31 ¹hf (Quantitative Analysis, Part II);

Chemistry 32 ²hf (Physical Chemistry, Part I);

Chemistry 33 (Organic Chemistry);

Chemistry 42 (Advanced Organic Chemistry);

Physics 21 (Elements of Physics);

The language requirements are two years of college French or their equivalent and two years of college German or their equivalent. It is strongly urged that the German requirement be fulfilled before the end of the Junior year. (Courses taken in satisfaction of these language requirements may be counted toward distribution.)

NOTE.—Mathematics 11 (Introduction to Mathematical Analysis) is a pre-requisite for Chemistry 21 ¹hf. Mathematics 21 (Differential and Integral Calculus) is a pre-requisite for Chemistry 32 ²hf.

Classics.

Three full courses (or their equivalent) in Latin, above Latin 1;

Two full courses (or their equivalent) in Greek, above Greek 1;

A full course (or its equivalent) in ancient history.

Two electives selected with the approval of the Adviser.

Economics.

Economics-Government 1 (advised);

Economics 21 (General Principles of Economics);

Two of the Junior courses in Economics (full courses or the equivalent);

Economics 40 (Advanced Economics);

Economics 50 (Reading);

Mathematics 26 ²hf (Statistics) (This should be taken in the Sophomore year);

One full course in Psychology or in Philosophy;

Students who major in Economics will be required to take a comprehensive written examination at the end of the Senior year. The courses of concentration will be stressed, but familiarity with adjoining fields of knowledge will be expected.

English.

English 21 (Survey of English Literature);

English 45 (Shakespeare);

Four other full courses in the Department of English, exclusive of English 1.

It is urged that students majoring in English elect History 23 (English History), preferably in their Sophomore year.

By the end of their Junior year, students who major in English must have a reading knowledge of either French *or* German.

At the end of the Senior year, they will be required to take a comprehensive written examination covering the entire field of English literature. Papers will be set in the history of English literature, and in the appreciation of literature. Some works and tendencies of modern foreign literature will be included in the latter paper, and some of the questions will be set in French or German.

English 41 (Chaucer) must be taken by students who wish the recommendation of the Department for graduate study.

French.

See Romance Languages.

German.

Four full courses in German beyond German 10 (Intermediate German), including German 40 (Problems of Current German Life and Thought);

A course in mediaeval European history and a course in modern European history *or* their equivalents.

NOTE.—German 21 (Scientific German) does not count toward the major.

Government.

Economics-Government 1 (advised);

Government 21 (Comparative Government);

Any three of the four Junior and Senior courses in Government; Economics 21 *or* a full year of Psychology *or* a full year of Sophomore History;

Economics 34 ¹hf (International Economic Problems) and Economics 35 ²hf (Government and Industry) *or* a full year of Junior History.

Beginning in 1934-35, students who major in Government will be required to take a comprehensive written examination covering the field of their major courses at the end of the Senior Year.

History.

History 1 (Historical Survey);

History 21 (Mediaeval European History) *or* History 23 (English History);

History 22 (Modern European History);

History 25 (History of the United States);

Economics-Government 1, *or* Economics 21 (General Principles of Economics) *or* Government 21 (Comparative Government) *or* a full course in Psychology exclusive of Educational Psychology (Social Psychology recommended);

English 21 (Survey of English Literature) *or* Art 21 (Introduction to Art) *or* Philosophy 31 (History of Philosophy).

Mathematics.

Mathematics 11 (Introduction to Mathematical Analysis);

Mathematics 21 (Differential and Integral Calculus);

Mathematics 31 (Mathematical Analysis, Part I);

Mathematics 35 (The Elements of Mechanics);

Mathematics 41 (Mathematical Analysis, Part II);

Physics 21 (Elements of Physics).

Or:

Mathematics 11 (Introduction to Mathematical Analysis);

Mathematics 21 (Differential and Integral Calculus);

Mathematics 33 (Higher Algebra);

Mathematics 35 (The Elements of Mechanics);

Mathematics 43 (Introduction to Modern Geometry);

Physics 21 (Elements of Physics).

A reading knowledge of French or German is advised.

Philosophy.

Philosophy 11 ¹hf (Logic);

Philosophy 15 (Ethics);

Philosophy 31 (History of Philosophy);

Philosophy 34 ²hf (Locke, Berkeley, Hume);

Philosophy 35 ¹hf (History of Religion);

Philosophy 36 ²hf (Psychology and Philosophy of Religion);

Philosophy 41 ¹hf (Plato);

Philosophy 42 ² hf (Schopenhauer);

One full course or its equivalent in psychology *or* in history.

Physics.

Physics 21 (Elements of Physics);

Physics 31 (Electricity and Magnetism);

Physics 41 (Physical Optics);

Physics 42 (Theory of Heat) *or* Physics 43 (Electricity);

Mathematics 21 (Differential and Integral Calculus);

Chemistry 2 (Comprehensive General Chemistry).

Reading knowledge of French and German.

Pre-Medical Sciences.

Each student who wishes to study medicine is advised to take the six essential courses of the pre-medical major, whether he selects this major or some other. These are the courses stipulated by the Council on Medical Education of the American Medical Association as the minimal requirements for admission to the medical schools:

Two full courses in biology: Biology 11 (Beginning Zoölogy), Biology 21 ¹hf (Comparative Anatomy of Vertebrates), and Biology 22 ²hf (Embryology of Vertebrates);

Two full courses in chemistry: Chemistry 2 (Comprehensive General Chemistry), and Chemistry 33 (Organic Chemistry);

One full course in physics: Physics 21 (Elements of Physics);

NOTE.—Mathematics 11 (Introduction to Mathematical Analysis) is pre-requisite to Physics 21.

One full course in English, which must be actually taken in college.

In addition, two years of college German or their equivalent and two years of college French, or their equivalent, are required.

Courses taken in fulfillment of these language requirements may be counted toward distribution. The student should become familiar with the specific requirements of the professional school he expects to enter, where additional requirements may be pre-requisite. For example, Latin is required for admission to the Johns Hopkins University School of Medicine. Some medical schools require "a reading knowledge" of French and German. Analytical chemistry is required in some schools, and, indeed, work in physical chemistry would be desirable.

Psychology.

Three full courses, or their equivalent, in psychology;

Biology 11, either section A or section B;

Philosophy 31.

One additional full course, or the equivalent, in philosophy, *or* in biology, *or* in psychology; *or* a full course in physics;

One additional full course or two half-courses to be elected from the following list:

Any philosophy course;

Any psychology course;

Biology 16 ²hf; Biology 21 ¹hf; Biology 22 ²hf; Biology 30 ¹hf;

Biology 33 ²hf; Biology 34 ²hf;

Chemistry 1 or Chemistry 2;

Physics 21;

Mathematics 26 ²hf;

Economics 38 ¹hf and 39 ²hf; Economics 40;

Greek 23 ¹hf;

English 24 ²hf; English 49; English 50.

Any student who intends to do graduate work in psychology should learn to read both German and French. He should also take at least two full science courses or their equivalent. Two full years of biology and one of some other science, preferably physics, are recommended. The student should make as thorough a study as possible of physiology, especially the physiology of the nervous system and the ductless glands.

Romance Languages.

Four full courses in one Romance language above French 2 or Spanish 2 (intermediate courses). One of these four must be a course in composition and conversation.

In addition, two full courses in another Romance language.

French 17 does not count toward the major.

Social Sciences.

One course in each department. The courses prescribed are: Economics 21 (General Principles);

Government 21 (Comparative Government);

History 1 (European History from the Fall of Rome to the Present Time);

Philosophy 31 (History of Philosophy);

One full course in psychology, exclusive of Educational Psychology (Social Psychology is recommended);

Three additional courses in the social sciences. These three courses must be distributed over three departments and must have the approval of the departments concerned.

Spanish.

See Romance Languages.

Room Assignments, 1934-35

NOTE.—Courses bearing the announcement, "Hours to be arranged" will meet at times and places designated by the instructor in consultation with the Registrar.

Course	Hall and Room	Course	Hall and Room
Art 21	McDowell 24	Government 43- ¹ hf, 44- ² hf	McDowell
Biology, <i>all courses</i>	Biology Building	Greek 1	McDowell
Chemistry, <i>all courses</i>	Humphrey's Hall	History 1	McDowell
Economics-Government 1 A	McDowell 36	History 11	McDowell
Economics-Government 1 B	McDowell 36	History 21	McDowell
Economics 21	McDowell 33	History 22	McDowell
Economics 32- ¹ hf, 33- ² hf	McDowell 21	History 25	McDowell
Economics 34- ¹ hf, 35- ² hf	McDowell 21	History 38	McDowell
Economics 40	McDowell 24	History 39	McDowell
English 1 A	McDowell 36	Hygiene 1	Humphrey's Lecture Ro
English 1 B	McDowell 36	Latin 1	McDowell
English 1 C	McDowell 32	Mathematics 1- ¹ hf, 2- ² hf	McDowell
English 1 D	McDowell 21	Mathematics 11 A	McDowell
English 21	McDowell 32	Mathematics 11 B	McDowell
English 23	McDowell 24	Mathematics 11 C	McDowell
English 29.1- ¹ hf, 29.2- ² hf	McDowell 23	Mathematics 21	McDowell
English 34- ¹ hf	McDowell 22	Mathematics 25- ¹ hf, 26- ² hf	McDowell
English 35	McDowell 35	Mathematics 31	McDowell
English 37- ² hf	McDowell 32	Mathematics 33	McDowell
English 45	McDowell 23	Mathematics 35	McDowell
English 49	McDowell 24	Mathematics 41	McDowell
French 1	McDowell 36	Mathematics 45	McDowell
French 2 A	McDowell 34	Philosophy 11- ¹ hf, 12- ² hf	McDowell
French 2 B	McDowell 36	Philosophy 15	McDowell
French 11	McDowell 22	Philosophy 31	McDowell
French 13	McDowell 32	Philosophy 38	McDowell
French 17	McDowell 22	Philosophy 41- ¹ hf, 42- ² hf	McDowell
French 20	McDowell 22	Physics, <i>all courses</i>	Humphrey's H
German 1	McDowell 21	Psychology 13- ¹ hf, 14- ² hf	McDowell
German 10	McDowell 21	Psychology 27	McDowell
German 20	McDowell 24	Psychology 29	McDowell
German 21	McDowell 21	Spanish 1	McDowell
German 36	McDowell 34	Spanish 2	McDowell
Government 21	McDowell 33	Spanish 11	McDowell
Government 31	McDowell 32	Spanish 25- ¹ hf, 25- ² hf	McDowell
Government 41	McDowell 31	Spanish 31	McDowell