

VOLUME II

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ST. JOHN'S COLLEGE
IN ANNAPOLIS

ANNOUNCEMENT OF
COURSES
1932-33



ANNAPOLIS, MARYLAND

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MID-YEAR EXAMINATION SCHEDULE

January 19 to 28, 1933

Thursday, January 19.....	{	9 A. M.-12 M.....	Group XX
	}	2 P. M.- 5 P. M.....	Group IX
Friday, January 20.....	{	9 A. M.-12 M.....	Group II
	}	2 P. M.- 5 P. M.....	Group XVI
Saturday, January 21.....	{	9 A. M.-12 M.....	Groups VI, XV
Monday, January 23.....	{	9 A. M.-12 M.....	Group III
	}	2 P. M.- 5 P. M.....	Group XVII
Tuesday, January 24.....	{	9 A. M.-12 M.....	Group XI
	}	2 P. M.- 5 P. M.....	Group I
Wednesday, January 25.....	{	9 A. M.-12 M.....	Group XIX
	}	2 P. M.- 5 P. M.....	Group X
Thursday, January 26.....	{	9 A. M.-12 M.....	Group IV
	}	2 P. M.- 5 P. M.....	Group VIII
Friday, January 27.....	{	9 A. M.-12 M.....	Groups XII, XVIII
Saturday, January 28.....	{	9 A. M.-12 M.....	Group V

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, GROPP, KUEHNEMUND, PENROSE, SCOFIELD, SEGALL, AND STARR, AND
MESSRS. KIEFFER AND RODGERS

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 Sieneese 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.

PROFESSOR SCOFIELD.

[Art 32. The Art of Classical Antiquity.] (II)

A study of the Greeks and Romans as we know them through their fine and applied arts.

M-W-F at 9.
Omitted in 1932-33.

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. PROFESSOR SCOFIELD.
Section B; T-Th-S at 9. PROFESSOR STARR.
Section C; M-W-F at 9. PROFESSOR BROWN.
Section D; T-Th-S at 10. MR. RODGERS.
Section E; T-Th-S at 9. MR. RODGERS.

English 21. Survey of English Literature. (III)

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.

M-W-F at 10.

PROFESSOR BROWN.

English 23. Contemporary Literature. (X)

A study of the significant prose fiction and poetry of England and America during the twentieth century.

T-Th-S at 10.

PROFESSOR STARR.

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.

PROFESSOR SCOFIELD.

[English 28 ¹hf. The Legend of King Arthur.]

The historical Arthur of the sixth century will be discussed in relation to the romantic figure of the Middle Ages, especially in Geoffrey of Monmouth and in Malory. The later stories of Arthur down to Tennyson and Edwin Arlington Robinson will be included.

M-W-F at 9.
First half-year.

Omitted in 1932-33.

PROFESSOR STARR.

English 30 hf. History of the Printed Book.

The first half of the course, dealing with the printed book from modern times to the seventeenth century, will be taught by President Gordon; the second half, dealing with the printed book in the fifteenth and early sixteenth centuries, will be taught by Professor Penrose.

Half-course running throughout the year.
Hours to be arranged.

PRESIDENT GORDON AND PROFESSOR PENROSE.

English 31 ¹hf. Theory of Poetry. (IX)

T-Th-S at 9.

PROFESSOR SCOFIELD.

[English 32. The Nineteenth Century.] (X)

This course is intended to give a comprehensive view of the poetry and the prose (including the novel) of the nineteenth century, from Byron to Oscar Wilde. The change from the romanticism of the early nineteenth century poets to that of the Victorians, and the gradual development of the didactic purpose in prose of the period will be especially emphasized. There will be frequent class-room discussions, and occasional papers.

T-Th-S at 10.

Omitted in 1932-33.

PROFESSOR STARR.

English 33. The Sixteenth and Seventeenth Centuries.

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.

Hours to be arranged.

PROFESSOR STARR.

[English 34 ¹hf. The Drama from 1588 to 1800.]

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

Pre-requisite: English 21.

T-Th-S at 9.

First half-year.

Omitted in 1932-33.

PROFESSOR SCOFIELD.

*English 35. The Eighteenth Century.

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.

Pre-requisite: English 21.

Hours to be arranged.

PROFESSOR BROWN.

[English 36 ¹hf. Romantic Poetry of the Eighteenth Century.]

A survey of English romantic poetry from Anne of Winchelsea to Wordsworth. Important poets studied will include Thomson, Gray, Cowper, Coleridge, and Wordsworth.

Tuesday at 10.

First half-year.

Omitted in 1932-33.

PROFESSOR STARR.

English 37. Poetry of the Nineteenth Century. (II)

In the first half-year the chief poets studied will include Wordsworth, Coleridge, Byron, Shelley, and Keats; in the second, Tennyson, Browning, Arnold, Swinburne, Morris, and Rossetti.

M-W-F at 9.

PROFESSOR STARR.

[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 41.

M-W-F at 10.

Omitted in 1932-33.

PROFESSOR BROWN.

[English 39. American Literature from 1870.]

M-W-F at 1.

Omitted in 1932-33.

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 *Garvain and the Green Knight* and *The Pearl* will be read.

M-W-F at 11.

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

Omitted in 1932-33.

PROFESSOR STARR.

[English 43. Mediæval Literature.]

A Study of the most important writings in English from the twelfth to the fifteenth centuries.

Pre-requisite: English 21.

M-W-F at 8.

Omitted in 1932-33.

PROFESSOR STARR.

English 45. Shakespere. (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. Special attention will be given to Shakespeare's theory of tragedy and to the philosophical and religious views contained in his principal plays.

M-W-F at 1.

PROFESSOR BROWN.

[English 49. The Novel.]

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, Dostoievsky, 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.

M-W-F at 3.

Omitted in 1932-33.

PROFESSOR SCOFIELD.

*English 50. Reading Course.

*English 53²hf. Reading Course.

MEMBERS OF THE DEPARTMENT.

†English 60. Theses for Honors.

†English 63²hf. 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.

(xvii)

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.

(ix)

Comprehensive outside reading of modern prose; reports in French.

Required of French Majors.

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

T-Th-S at 9.

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 illustrated by readings from representative works of the more important periods. Outside reading; reports. 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; reports.

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

M-W-F at 2.

PROFESSOR SEGALL.

[French 41. Nineteenth-Century and Contemporary French Literature.] (vi)

A study of 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.

M-W-F at 2.

Omitted in 1932-33.

PROFESSOR SEGALL.

French 50. Reading Course.

The Romantic Movement in France.

Pre-requisite: French 20.

PROFESSOR SEGALL.

*†French 62^{hf}. 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.

Section A; M-W-F at 8. PROFESSOR GROPP.

Section B; M-W-F at 11. PROFESSOR GROPP.

German 10. Intermediate German. (II, VIII)

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.

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

Section B; T-Th-S at 8. PROFESSOR GROPP.

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. (II)

Intended for students specializing in sciences.

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

M-W-F at 9.

PROFESSOR GROPP.

*German 33. Advanced Composition and Conversation.

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.

Hours to be arranged.

PROFESSOR GROPP.

[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 I passed with grade of "C" or better.

M-W-F at 1.

Omitted in 1932-33; given in 1933-34.

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 with consent of the instructor.

M-W-F at 1.

PROFESSOR KUEHNEMUND.

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

Open only to men majoring in German.

Tuesday at 7:30 p. m.

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 I. Beginning Greek. (IV)
Elements of grammar and composition; readings in Greek prose. Special emphasis upon the Greek element in the English language.
M-W-F at II.

MR. KIEFFER.

[Greek 23 ¹hf. History of Classical Mythology.] (V)
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.
M-W-F at I.
Omitted in 1932-33.

MR. KIEFFER.

Greek 3I. Plato; Greek Tragedy. (III)
Plato; Apology and Crito. Two Greek Tragedies.
Pre-requisite: Greek I.
M-W-F at IO.

MR. KIEFFER.

[Greek 33. Herodotus; Greek Comedy; Greek Lyric Poets.]
In addition to the reading and study of Herodotus, the course will include study of Greek Comedy and Aristophanes and reading of two representative plays. Reading and study of poets from Tyrtaeus to Simonides of Ceos, including Archilochus, Sappho, and Anacreon.
Pre-requisite: Greek 2I.
T-Th-S at II.
Omitted in 1932-33.

MR. KIEFFER.

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

M-W-F at I.

Second half-year.

Omitted in 1932-33.

MR. KIEFFER.

See also History 20. History of Greece and Rome.

LATIN

Latin I. Beginning Latin. (XI)
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 II.

MR. KIEFFER.

[Latin 15. Roman Law.]
Readings principally from the *Institutes* of Justinian. Study of the development of legal procedure and the Roman constitution. For prospective law students.
Pre-requisite: Latin I, or two years of high-school Latin.
Hours to be arranged.
Omitted in 1932-33.

MR. KIEFFER.

[Latin 23 ¹hf. Letters of Cicero and Pliny.]
Detailed studies of those aspects of Roman civilization portrayed by these authors. Collateral readings in English.
Pre-requisite: Latin II and 12, or four years of high-school Latin.
M-W-F at 2.
First half-year.
Omitted in 1932-33.

MR. KIEFFER.

[Latin 24 ²hf. Plautus and Terence.]
Reading of a representative play of each; study of the antecedents, development, and historical influence of the Roman theatre.

M-W-F at 2.
Second half-year.
Omitted in 1932-33.

MR. KIEFFER.

See also History 20. History of Greece and Rome.

*Classics 50. Classical Philology.

*Classics 51 hf. Classical Philology.

Reading under the direction of the instructor, in Greek and Latin literature and antiquities. Open to approved candidates for honors in the Classics, and to Juniors and Seniors generally.

MR. KIEFFER.

†Classics 60. Classical Philology.

†Classics 61 hf. Classical Philology.

Laboratory courses in thesis writing.

MR. 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 I, or two years of high-school Spanish.

M-W-F at 9.

PROFESSOR FITZGERALD.

Spanish 11. Introduction to Spanish Literature. (IV)

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 11.

PROFESSOR FITZGERALD.

Spanish 13. Spanish Composition and Conversation. (VI)

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 2.

PROFESSOR FITZGERALD.

[Spanish 25. Spanish Life and Culture.]

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.

Hours to be arranged.

Omitted in 1932-33.

PROFESSOR FITZGERALD.

[Spanish 31. Modern Spanish Novel.]

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.

Omitted in 1932-33.

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 1932-33.

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 ALLES (*Chairman*), HUNTER, KINGSBURY, McLAREN, PENROSE,
AND WYCKOFF, AND MESSRS. DUNCAN, PAVENSTEDT,
AND RODGERS.

ECONOMICS

Economics 21. General Principles. (III)

A study of the economics of living and an analysis of economic laws.

Section A; M-W-F at 10. PROFESSOR WYCKOFF.

Section B, for students majoring in Economics; M-W-F at 10.

MR. DUNCAN.

[Economics 31. Industrial Problems.] (IX)

This course will consider problems of industrial relations and the significance of tendencies in the forms of business organization.

Pre-requisite: Economics 21.

T-Th-S at 9.

Omitted in 1932-33.

PROFESSOR WYCKOFF.

Economics 32. Financial Problems. (X)

The subject of money, credit, and banking will be studied in its relation to investment and corporation finance. A survey rather than specialization will be the purpose of this course.

Pre-requisite: Economics 21.

T-Th-S at 10.

PROFESSOR WYCKOFF.

Economics 35. International Economic Problems. (XI)

This course will consist of discussions, readings, reports, and papers on assigned topics on selected problems in international economics including reparations, war debts, international control of raw materials, and economic imperialism.

Pre-requisite: Economics 21.

T-Th-S at 11.

MR. DUNCAN.

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-W-F at 11.

PROFESSOR WYCKOFF.

*Economics 50. Readings in Economics.

A conference course 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

Government 11. American Government. (II)

The introductory course required of all students majoring in government. Origins and development of the American form of government: federal, state, and local. About two-thirds of the year will be devoted to the federal government; one-third to state and local government. Emphasis on present day problems of government, and on the rights, duties, and responsibilities of citizens.

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

Section B; M-W-F at 11. MR. DUNCAN.

Section C; M-W-F at 2. MR. DUNCAN.

Government 21. Governments of Europe. (IX)

An analysis of the structure and functioning of the governments of the principal European states, and a comparison with American institutions and practices. The shift from monarchical to democratic forms; the rise of autocracies in Italy and Russia, and other recent developments will be studied.

Pre-requisite: Government II.

T-Th-S at 9.

PROFESSOR KINGSBURY.

Government 23. State and Local Government. (IV)

A more detailed study of the organization and functioning of state, municipal, and local governments for the student who may go into public life in this country. Problems of the electorate, of political parties, of legislative organization and procedure, and of state and local administration, including the administration of justice, will be studied, with special reference to the State of Maryland.

Pre-requisite: Government II.

M-W-F at II.

PROFESSOR KINGSBURY.

[*Government 3I. History of Political Ideas.] (III)

A study of the theories of politics and of government from classical times to the present day, intended to show the evolution of systematic political reasoning and the basis of modern political thought. The ideas of the philosophers on such subjects as political liberty, democracy, sovereignty, the best form of government, anarchism, socialism, and problems of international order, will be studied. Open only to students whose interests and training fit them for the course.

M-W-F at IO.

Omitted in 1932-33.

PROFESSOR KINGSBURY.

[Government 4I¹hf. International Relations.]

A survey of the present-day factors affecting international relations: nationalism, imperialism, exploitation of backward nations, racial minorities, militarism and armaments, tariff wars, etc.

Pre-requisite: (I) Government II; (2) Government 2I, or Government 3I, or History 3I.

Hours to be arranged.

First half-year.

Omitted in 1932-33.

PROFESSOR KINGSBURY AND MR. DUNCAN.

[Government 42²hf. International Organization.]

The development of international coöperation, and the peaceful settlement of international disputes, with particular reference to the work of the League of Nations and the World Court, and the evolution of a law of nations.

Pre-requisite: (I) Government II; (2) Government 2I, or Government 3I, or History 3I; (3) Government 4I.

Hours to be arranged.

Second half-year.

Omitted in 1932-33.

PROFESSOR KINGSBURY.

Government 43¹hf. Political Parties.

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-requisite: (I) Government II; (2) Government 23, or Government 3I.

Hours to be arranged.

First half-year.

PROFESSOR KINGSBURY.

Government 44²hf. Constitutional Law.

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-requisite: (I) Government II; (2) Government 23, or Government 3I.

Hours to be arranged.

Second half-year.

PROFESSOR KINGSBURY.

*Government 50. Reading Course.

*Government 51 hf. Reading Course.

*Government 52¹hf. Reading Course.

*Government 53²hf. Reading Course.

PROFESSOR KINGSBURY.

*†Government 60. Theses for Honors.

PROFESSOR KINGSBURY.

HISTORY

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

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.

Section A; T-Th at 10, S at 9.

Section B; T-Th at 10, S at 10.

Section C; T-Th at 10, S at 8.

MR. PAVENSTEDT.

History 20. History of Greece and Rome. (x)

Outline of the political history of ancient times and a study of classical society.

T-Th-S at 10.

MR. KIEFFER.

History 21. Mediaeval European History. (xi)

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.

T-Th-S at 11.

MR. PAVENSTEDT.

History 22. Modern European History. (xx)

An outline of the history of Europe from the emergence of the national state to the European War of 1914-1918.

Section A; M-W-F at 8.

Section B; T-Th-S at 8.

PROFESSOR HUNTER.

History 23. English History. (iv)

A survey of English history.

M-W-F at 11.

PROFESSORS HUNTER AND PENROSE.

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

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

M-W-F at 2.

MR. RODGERS.

History 34. American Economic History. (ii)

The study of the development of American economic life from the colonial beginnings to the present.

Pre-requisite: History 25 or its equivalent.

M-W-F at 9.

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 1932-33.

PROFESSOR HUNTER.

History 44. American History Since the Civil War. (iv)

The rise and development of the modern political system.

Pre-requisite: History 25 or its equivalent.

M-W-F at 11.

MR. RODGERS.

*History 50. Reading Course.

*History 51 hf. Reading Course.

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 12²hf. 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 34²hf. Locke; Berkeley; Hume.] (VI)

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

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

M-W-F at 2.

Second half-year.

Omitted in 1932-33.

PROFESSOR ALLES.

[Philosophy 35¹hf. History of Religion.] (VI)

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

M-W-F at 2.

First half-year.

Omitted in 1932-33.

PROFESSOR ALLES.

[Philosophy 36²hf. 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 1932-33.

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, or 31, or 35, or the consent of the instructor.

M-W at 2.

PROFESSOR ALLES.

Philosophy 41¹hf. 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 42²hf. Schopenhauer. (VII)
 An interpretation of Schopenhauer's philosophy based on the reading of
 THE WORLD AS WILL AND IDEA.
 Pre-requisite: Philosophy 3I.
 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 sub-
 ject chosen by the student after consultation with the instructor.
 PROFESSOR ALLES.

PSYCHOLOGY

Psychology 11¹hf. General Introduction to Psychology. (x, XI)
 This course is designed to serve as a basis for any further work in psy-
 chology. An attempt will be made to discover a biological foundation
 for the study of human behavior.
 Section A; T-Th-S at 10.
 Section B; T-Th-S at 11.
 First half-year.

PROFESSOR McLAREN.

Psychology 12²hf. History of Psychology. (x, XI)
 A study of speculations concerning the nature of mind, will, conscious-
 ness, ideas, etc. Also a study of the development of scientific methods
 in the field of psychology.
 Section A; T-Th-S at 10.
 Section B; T-Th-S at 11.
 Second half-year.

PROFESSOR McLAREN.

[Psychology 19²hf. Educational Theory.] (x, XI)
 A study of the bearing of modern psychological theories and data upon
 educational theories and practices. The meaning of education as under-

stood by progressive educators will be discussed and emphasized. The
 course is especially designed for first-year students and for sophomores.

Section A; T-Th-S at 10.

Section B; T-Th-S at 11.

Second half-year.

Omitted in 1932-33.

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 postu-
 late that man is a socialized animal; and social psychology will be
 considered to be integral with biological psychology. The different
 schools of social psychology will be examined and discussed.

Pre-requisite: Psychology 11, or 12, or 19, or 23, or 29,
 or one year of biology, or one year of philosophy.

M-W-F at 9.

PROFESSOR McLAREN.

Psychology 29. Advanced Psychology. (IV)

A technical and scientific study of the biological and social phenomena
 underlying human behavior.

Pre-requisite: Psychology 11, or 12, or 19, or 23, or 27, or
 one year of biology, or one year of philosophy.

M-W-F at 11.

PROFESSOR McLAREN.

[Psychology 35²hf. Mental Hygiene and Abnormal Psychology.] (II)

In discussing behavior deviations, an attempt will be made to get at
 social causes and to steer a realistic course among numerous meta-
 physical and romantic theories. The course should be of especial
 value to pre-medical students and to students of literature.

Open only to Juniors and Seniors who have already had one
 full year of psychology in St. John's College.

M-W-F at 9.

Second half-year.

Omitted in 1932-33.

PROFESSOR McLAREN.

*Psychology 50. Reading Course.

*Psychology 51 hf. Reading Course.

*Psychology 52 ¹hf. Reading Course.

These courses are intended for students who are in earnest about reading extensively and intensively in the field of psychology. Conferences, and assigned papers which must be turned in when due.

Pre-requisite: Two full years of psychology, or one of psychology and one of biology, or one of psychology and one of philosophy.

PROFESSOR McLAREN.

*†Psychology 60. Theses for Honors.

PROFESSOR McLAREN.

III. DIVISION OF THE SCIENCES AND MATHEMATICS

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

BIOLOGY

Biology 11. Beginning Zoölogy. (XVIII)

An introduction to animal biology. General principles of morphology, physiology, histology, genetics, embryology, etc., and a survey of the common groups of animals. A pre-requisite to all other biology courses except Biology 20. Two hours of recitation and six hours of laboratory.

Laboratory fee, \$20.00.

Section A; Recitation, M-F at 11.

Laboratory, W-F from 1 to 4.

PROFESSOR RIDGELY.

Section B; (Pre-medical students).

Recitation, W-F at 2.

Laboratory, T-Th from 1 to 4.

PROFESSOR BAYLIFF.

[Biology 15 ²hf. Field Zoölogy.]

Observation of local animals in their native habitats, both land and water. Animals collected may be brought to the laboratory for further study and classification.

Second half-year.

Omitted in 1932-33.

PROFESSOR APPEL.

Biology 19 ²hf. History of the Germ Cells. (II)

A study of the mechanics of the genesis of the germ cells, of fertilization, and of early development prior to organogeny. Two hours of recitation and six hours of laboratory.

Pre-requisite: One year of college biology.

Laboratory fee, \$10.00.

Recitation, W-F at 9.

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

Second half-year.

PROFESSOR APPEL.

Biology 20 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. Conferences weekly.

Open only to students who have had no biology.

Hours to be arranged.

First half-year.

PROFESSOR RIDGELY.

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

A history of the highest type of animal structure as revealed throughout the vertebrate series. 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.

First half-year.

PROFESSOR APPEL.

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

A history of the highest type of animal structure as seen in the development of the chick and the pig. 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 23 ¹hf. Invertebrate Zoölogy.] (x)

The morphology and evolution of the invertebrates. Some attention to larvæ, to extinct groups, and to groups of uncertain phylogenetic position. A course parallel to Biology 21. Two hours of recitation and six hours of laboratory.

Pre-requisite: Biology 11 or the equivalent. Biology 19 advised.

Laboratory fee, \$10.00.
 Recitation, T-Th at 10.
 Laboratory, W-F from 9 to 12 (other hours may be arranged).
 First half-year.
 Omitted in 1932-33.

PROFESSOR BAYLIFF.

Biology 30 ¹hf. Histology. (II)

Microscopic study of normal cells and tissues of mammals. Two hours of recitation and six hours of laboratory.

Pre-requisites: Biology 21 and 22.
 Laboratory fee, \$10.00.
 Recitation, W-F at 9.
 Laboratory, M-W-F from 2 to 4.
 First half-year.

PROFESSOR APPEL.

Biology 33 ²hf. Microscopical Technique. (VIII)

Training in laboratory methods, making microscope slides especially. Register only with consent of instructor. Two hours of recitation and six hours of laboratory.

Pre-requisite: Biology 30.
 Laboratory fee, \$10.00.
 Recitation, T-Th at 8.
 Laboratory, M-W from 1 to 4.
 Second half-year.

PROFESSOR APPEL.

Biology 34 ²hf. Genetics. (x)

A study of the principles of heredity and variation, and of the relation of these two phenomena 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. Two hours of recitation and six hours of laboratory.

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

Laboratory fee, \$10.00.
 Recitation, T-Th at 10.
 Laboratory, W-F from 9 to 12 (other hours may be arranged).
 Second half-year.

PROFESSOR BAYLIFF.

Biology 36 ²hf. Physiology. (IX)

An introduction to the mechanics of living matter, as evident from experiments. Two hours of recitation and six hours of laboratory.

Pre-requisite: One year of college work in biology, chemistry, and physics.
 Laboratory fee, \$10.00.
 T-Th-S from 9 to 12.
 Second half-year.

PROFESSOR APPEL.

Biology 37 ¹hf. Parasitology. (VIII)

A study of the morphology and of the life histories of the internal parasites of vertebrates, particularly birds and mammals. Two hours of recitation and six hours of laboratory.

Pre-requisite: Biology 11 or the equivalent. Biology 23 is recommended.
 Laboratory fee, \$10.00.
 Recitation, T-Th at 8.
 Laboratory, W-F from 9 to 12 (other hours may be arranged).
 First half-year.

PROFESSOR BAYLIFF.

*Biology 52 ¹hf. Readings for Advanced Students.

For major students who are reading for honors in biology, and for other well-grounded Juniors and Seniors who wish to knit their previous course work into a cohesive biological philosophy. Conferences weekly.
 First half-year.

PROFESSORS RIDGELY, APPEL, AND BAYLIFF.

*†Biology 63 ²hf. Theses for Honors.

Individual problems involving laboratory work and reading. 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.

Marine Biology.

A summer course at some marine laboratory is desirable for advanced students, especially if they intend to go to graduate schools. Such laboratories provide opportunities which cannot be duplicated during the regular school year. With the approval of the department such marine courses may be counted toward the requirements for the degree. The Department recommends particularly the courses offered at the Chesapeake Biological Laboratory, Solomons Island, Maryland, a state institution cooperating with St. John's College. For description of courses at summer laboratories, see 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 a one hour lecture replaces the one hour of recitation on Friday. The lectures and laboratory work will include topics which are in part introductory to Qualitative Analysis. Three hours of lectures 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 lecture 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 2I ¹hf. Qualitative Analysis.

(I)

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-requisite: Chemistry 2 and Mathematics 11.

Laboratory fee, \$15.00 and breakage.

Recitation, W-F at 8.

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 2I.

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 3I ¹hf. Quantitative Analysis, Part II.

(VIII)

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.

Laboratory fee, \$15.00 and breakage.

Recitation, Th at 8.

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

First half-year.

PROFESSORS ALLEN AND MCFARLIN.

Chemistry 32²hf. 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 determinations of molecular weights, measurements of physical properties, etc. Three hours of lectures and four hours of laboratory.

Pre-requisite: Chemistry 21 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 and their reactions in the aliphatic and aromatic series. 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 43¹hf. 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-requisite: Chemistry 32; ability to read French and German.

M-W-F at 11.

First half-year.

PROFESSOR ALLEN.

*Chemistry 52¹hf. Readings in Chemistry.

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

Pre-requisite: Chemistry 21 and 33.

Hours to be arranged.

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 1¹hf. 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 2²hf. 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 II. Introduction to Mathematical Analysis. (XIX)

This course aims to give a survey of Trigonometry, College Algebra, Analytic Geometry, and an introduction to the fundamental concepts of the Calculus. 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. Analytic Geometry and the Calculus. (III)

Plane Analytic Geometry, the straight line, circle, parabola, ellipse, and hyperbola, with a short introduction to Analytic Geometry of three dimensions.

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 II.

M-W-F at 10.

PROFESSOR BINGLEY.

Mathematics 25¹hf. 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 26²hf. 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.

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

Conference hours to be arranged.

PROFESSOR VEDOVA.

*Mathematics 53 ²hf. 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 63 ²hf. 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.

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-requisite: Physics 21 and Mathematics 21.

Mathematics 21 may be taken concurrently.

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. (II)

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-requisite: Physics 21; Mathematics 31; Chemistry 2.

Laboratory fee, \$20.00 and breakage.

Recitation, M-W-F at 9.

Laboratory, T-Th from 2 to 4.

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-requisite: Physics 21; Mathematics 31; Chemistry 2.

Laboratory fee, \$20.00 and breakage.

Recitation, M-W-F at 8.

Laboratory, W-F from 2 to 4.

Omitted in 1932-33.

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-requisite: Physics 31; 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, W-F from 2 to 4.

Omitted in 1932-33.

PROFESSOR EASON.

***Physics 50. Reading Course.**

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

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 from October 5 to December 7.

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 freshman 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. NOVAK.

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. NOVAK.

REQUIREMENTS FOR MAJORS**Biology.**

Four full courses or their equivalent in Biology, including Biology 11 (Beginning Zoölogy), Biology 21 ¹hf (Comparative Anatomy of Vertebrates) and Biology 22 ²hf (Embryology of Vertebrates);

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

The language requirements are two years of college French and two years of college German or their equivalent. (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 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. Mathematics 21 (Analytic Geometry and the Calculus) is a pre-requisite for Chemistry 32.

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 21 (General Principles of Economics);

Two of the Junior courses in Economics;

Economics 40 (Advanced Economics);

Mathematics 26 ²hf (Statistics);

Psychology 11 ¹hf (Introduction to Psychology);

Psychology 12 ²hf (History of Psychology);

Government 11 (American Government).

Beginning in 1932-33, 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 Junior 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).

History 21 (Mediaeval European History) and History 31 (Modern European History) *or* its equivalent.

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

Government.

Government 11 (American Government);

Government 31 (History of Political Ideas) *or* Philosophy 31 (History of Philosophy);

Government 21 (Governments of Europe) *or* Government 23 (State and Local Government);

Government 41 ¹hf (International Relations) and Government 42 ²hf (International Organization) *or* Government 43 ¹hf. (Political Parties) and Government 44 ²hf. (Constitutional Law);

Economics 21 (General Principles of Economics) *or* History 23 (English History) *or* History 21 (Mediaeval European History);

One full course in psychology or the equivalent, *or* Biology 11 (Beginning Zoology).

History.

History 1 (Historical Survey);

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

History 31 (Modern European History);

History 25 (The History of the United States) *or* Government 11 (American Government);

Economics 21 (General Principles of Economics) *or* Biology 11 (Beginning Zoology) *or* Psychology 11 ¹hf (Introduction to Psychology) and Psychology 12 ²hf (History of Psychology);

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 (Analytical Geometry and the 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 (Analytical Geometry and the 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.

~~Psychology 11 ¹hf (Introduction to Psychology) *or* Biology 11 (Beginning Zoology);~~

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 (Analytical Geometry and the Calculus);
- Chemistry 2 (Comprehensive General Chemistry).
- Reading knowledge of French and German.

Pre-Medical Sciences.

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

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

One full course in Physics: Physics 21 (Elements of Physics).

NOTE.—Mathematics 11 (Introduction to Mathematical Analysis) is prerequisite to Physics 21.

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

In addition to the six courses of the major two full courses or their equivalent in college German and two full courses in college French.

Additional courses *advised*: Chemistry 21 (Qualitative Analysis), Chemistry 22 (Quantitative Analysis), Chemistry 32 ²hf (Physical Chemistry, Part I); Biology 30 (Histology); Enough German and French to satisfy proficiently examinations in the medical school, that is, "a reading knowledge" of scientific material.

Psychology.

Three full courses, or their equivalent, in Psychology; Biology 11, either Section A or Section B; Philosophy 31.

To be elected: Either (a) One additional unit in Philosophy; or (b) one additional unit in Biology; or (c) one additional unit in Physics; or (d) one additional unit in Psychology.

Recommended courses: Any Philosophy course, either a full course or a half course (one or more):

Biology 21 ¹hf; Biology 22 ²hf; Biology 30; Biology 33 ¹hf; Biology 34 ²hf; Biology 36 ²hf.

Chemistry 1 or Chemistry 2.

Physics 21.

Mathematics 26 ²hf.

Economics 31; Economics 41.

Government 31.

Greek 23 ¹hf; Greek 36 ²hf.

English 26 ¹hf; English 27 ²hf; English 49.

Any student who intends to do graduate work in Psychology should learn to read German and French.

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.

Social Sciences.

One course in each Department. The courses prescribed are:

Economics 21 (General Principles);

Government 11 (American Government);

History 1 (Historical Survey);

Philosophy 31 (History of Philosophy);

One full course in introductory psychology.

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, 1932-33

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

Course	Hall and Room	Course	Hall and Room
Art 21	McDowell 24	Greek 31	Instructor's Study
Art 31	McDowell 24	History 1, all sections, Tues. and Thurs.	Humphreys Lecture Room
Biology, all courses	Biology Building	Section A, Saturday	McDowell 24
Chemistry, all courses	Humphreys Hall	Section B, Saturday	McDowell 21
Economics 21 A	McDowell 33	Section C, Saturday	McDowell 21
Economics 21 B	McDowell 21	History 20	McDowell 33
Economics 32	McDowell 33	History 21	McDowell 24
Economics 35	McDowell 24	History 22 A	McDowell 36
Economics 40	McDowell 24	History 22 B	McDowell 36
English 1 A	McDowell 36	History 23	McDowell 22
English 1 B	McDowell 36	History 25	McDowell 22
English 1 C	McDowell 22	History 34	McDowell 22
English 1 D	McDowell 22	History 44	McDowell 23
English 1 E	McDowell 22	Hygiene 1	Humphreys Lecture Room
English 21	McDowell 23	Latin 1	Instructor's Study
English 23	McDowell 32	Mathematics 1	McDowell 24
English 31	McDowell 24	Mathematics 11 A	McDowell 32
English 37	McDowell 23	Mathematics 11 B	McDowell 35
English 45	McDowell 32	Mathematics 11 C	McDowell 23
French 1	McDowell 35	Mathematics 21	McDowell 22
French 2 A	McDowell 35	Mathematics 25	McDowell 23
French 2 B	McDowell 35	Mathematics 31	McDowell 22
French 11	McDowell 22	Mathematics 33	McDowell 22
French 13	McDowell 23	Mathematics 35	McDowell 22
French 17	McDowell 22	Mathematics 41	McDowell 22
French 20	McDowell 22	Mathematics 45	McDowell 31
French 31	McDowell 22	Philosophy 11	McDowell 31
German 1 A	McDowell 31	Philosophy 15	McDowell 21
German 1 B	McDowell 31	Philosophy 31	McDowell 31
German 10 A	McDowell 21	Philosophy 38	McDowell 23
German 10 B	McDowell 31	Philosophy 41	McDowell 22
German 20	McDowell 23	Physics, all courses	Humphreys Lecture Room
German 21	Instructor's Study	Psychology 11 A	McDowell 21
German 36	McDowell 21	Psychology 11 B	McDowell 21
German 40	Instructor's Study	Psychology 27	McDowell 21
Government 11 A	McDowell 32	Psychology 29	McDowell 32
Government 11 B	McDowell 21	Spanish 1	McDowell 35
Government 11 C	McDowell 32	Spanish 2	McDowell 32
Government 21	McDowell 35	Spanish 11	Instructor's Study
Government 23	McDowell 32	Spanish 13	McDowell 21
Greek 1	Instructor's Study		