
Name

Please retain this announcement of courses
for use through 1970-71.

COURSES OF INSTRUCTION

1970 - 1971

GOUCHER COLLEGE

MAY 1970

CALENDAR

1970-1971

1970

First Semester

September	8	Tuesday	Opening date (dormitories open)
	9	Wednesday	Registration of new students
	10	Thursday	Registration of returning students
	11	Friday	Convocation
	12	Saturday	Registration of new students completed
	14	Monday	Classes begin at 8:30 a.m.
November	26	Thursday)	Thanksgiving holiday
	27	Friday)	
December	18	Friday	First semester ends at 4:15 p.m.

1971

January Term*

January	4	Monday	January term begins
	29	Friday	January term ends

Second Semester

February	8	Monday)	Registration for second semester
	9	Tuesday)	
	10	Wednesday	Second semester classes begin at 8:30 a.m.
March	26	Friday	Spring recess begins at 4:15 p.m.
April	12	Monday	Spring recess ends at 8:30 a.m.
May	26	Wednesday	Second semester ends at 4:15 p.m.
	30	Sunday	Commencement

*Announcement of January term offerings for January 1971 will be available to new students when they register in September.

ORGANIZATION OF THE CURRICULUM

Faculty I Languages, Literature, Philosophy, and the Arts

Joseph Morton, *Chairman*

Gretel Chapman, *Secretary*

Classics

English and Dramatic Arts

Fine Arts

Modern Languages and Literatures

Music

Philosophy

Faculty II History and the Social Sciences

R. Kent Lancaster, *Chairman*

Secretary to be elected

American Studies

Economics

Education

History

International Relations

Political Science

Religion

Sociology and Anthropology

Faculty III The Natural Sciences and Mathematics

Cecille Gold, *Chairman*

Elaine Koppelman, *Secretary*

Biological Sciences

Chemistry

Mathematics

Physical Education

Physics and Astronomy

Psychology

REQUIREMENTS FOR GRADUATION

Each student in attendance third term 1969-70 will receive from the Registrar's Office prior to May 18, the beginning of preregistration for 1970-71, a statement of her standing *vis-a-vis* the requirements for graduation.

Number of Courses

Students must complete a minimum of thirty-two courses to graduate, of which at least two must be January term courses. No more than three January term offerings count toward graduation. One of the January term offerings should be taken in the freshman year.

Distribution

At least two semester courses must be completed in each of the three faculties:

Faculty I	Languages, Literature, Philosophy, and the Arts
Faculty II	History and the Social Sciences
Faculty III	The Natural Sciences and Mathematics

English Composition

Proficiency in English composition is expected of all students. Students who have had serious difficulty or limited experience in secondary school are urged to take an expository writing course as soon as they enter college. Students who are referred by faculty members to the Dean because of weakness in composition are required, on the recommendation of the English department, to take a course in expository writing.

Foreign Language

Students are ordinarily expected to complete one course at Level II in a foreign language, the course to be chosen from the offerings in either literature or language. Students who begin the study of a foreign language in college or who place below the second half of the intermediate level (130 or 103) must complete the intermediate level.

Exceptionally well-prepared students may exempt the foreign language requirement on recommendation of the appropriate language department.

Religion

The Board of Trustees will consider on May 23, 1970, a recommendation from the faculty that the By-Laws of the College be changed to omit "a knowledge of the Sacred Scriptures" as a requirement for the degree.

Academic Standards

Each student is given the degree of responsibility for the fulfillment of her academic responsibilities commensurate with her obligations to a social and academic community; the implications of the student's academic obligation and responsibility are regular attendance in her classes and systematic preparation in all phases of her work. If a student because of illness must be absent from class for a disproportionate amount of time, she is subject to advice to withdraw from the class in question.

The record of any student who has a failing grade at the end of a semester or January term is reviewed by the Committee on Records, which views its action as part of the continuing guidance offered to each student. On the basis of this review, the Committee may warn, severely warn, advise to withdraw, or drop the student from the rolls of the College.

At the end of each academic year the Committee reviews the records of all freshmen, sophomores, and juniors whose grade-point averages for the year are below 1.50, 1.75, and 2.00 (C - 2.00), the averages ordinarily required for advancement to the sophomore, junior, and senior classes, respectively. A student's grade point average is affected by a Pass-Fail election only if the grade is an F.

Residence Requirement

A candidate for the degree of Bachelor of Arts, in addition to completing the general college requirements as well as those of the major, must attend classes on the Goucher College campus for at least the last two years of the college course. Exceptions to this general rule may be made only in the cases of well-qualified students. "Well qualified" ordinarily means an average of 2.50 for the three semesters immediately preceding the request for waiver of the requirement.

Junior Year Abroad

The possibility of study in Europe under the supervision of one of the several American colleges or universities sponsoring the junior year or junior semester abroad is open to qualified students with the approval of the Dean and the chairman of the department in which they will major on their return to Goucher.

Students interested in foreign languages may study in Paris under the plan sponsored by Sweet Briar College; in Munich under the auspices of Wayne State University; in Madrid under a program affiliated with New York University; or in Florence, Paris, Hamburg, or Madrid with groups organized by Smith College. Students interested in international relations may study in Geneva with the Smith College group. For students majoring in other fields there are a number of other foreign programs available. Only under very special circumstances is a student permitted to receive credit for work outside the limits of one of the regular junior year abroad programs.

If study is to be undertaken in a foreign language, at least two years of study of the language at college level are necessary.

Any student interested in the possibility of foreign study should consult the Dean at the beginning of her sophomore year.

INTER-INSTITUTIONAL PROGRAMS AND PROCEDURES

Since 1952 Goucher College and The Johns Hopkins University have cooperated under a reciprocal agreement by which students at either institution may elect courses at the other without payment of additional fees.

Similar agreements on an experimental basis were entered into with Morgan State, Towson State, and Loyola Colleges, beginning February 1968, and with The Maryland Institute College of Art, beginning February 1969.

Eligibility

Participation in the cooperative program at Hopkins is open to full-time sophomores, juniors, and seniors. The programs at Loyola, Morgan State, and Towson State Colleges and the Maryland Institute College of Art are open to full-time juniors and seniors. Ordinarily a Goucher student may take only one course per semester at one of the other institutions. Permission to increase this number must be obtained from the deans of both colleges.

Courses not duplicated at Goucher are open to election, except that visiting students may not displace a student of the host institution in courses where places are limited.

The cooperative plan makes no provision for direction of independent work at another institution.

Registration

A student who wishes to enroll in a course under the inter-institutional plan confers with her adviser during the period for preregistration in the spring. The department, number, and title of the course are included on her study program for the following year.

When the election has been approved, registration is conducted by mail between the registrars of the two institutions. The student obtains a class admission card from the host registrar immediately before the first meeting of the class. **NO OTHER REGISTRATION IS REQUIRED.** Students do not matriculate at the host college.

Catalogues and class schedules of colleges participating in the inter-institutional programs are available in the Registrar's Office at Goucher.

Pass-Fail

The *number and distribution* of pass-fail courses a student may take at another institution is governed by the Goucher regulations regarding election of pass-fail courses. In election *procedures*, the regulations of the host institution are followed. Thereby, Hopkins instructors of Goucher students in inter-institutional courses are *not* notified which students have elected the course on a pass-fail basis.

Examinations

It is the student's responsibility to determine the date of the final examination. Final examinations are administered only during the regular period for examination at the host institution.

Grade Reports

At the end of the semester the registrar of the host institution sends an official report of grade and credit to the Goucher registrar, who notifies the student of the grade earned. Host colleges do not send grade reports to students participating in inter-institutional programs, nor do they issue transcripts of record to such students.

Credit

Credit earned in inter-institutional courses is counted toward the degree at Goucher. Since each Goucher course carries 4 semester hours of credit and most inter-institutional courses are the equivalent of 3 semester hours credit, Goucher students should take note of this discrepancy when they are planning their programs and make arrangements to compensate for the shortage.

Numbering of Courses

Level I courses are numbered in the 100 series; Level II, in the 200 series; Level III, in the 300 series.

Course numbers in parentheses are numbers which are no longer in use.

Hyphenated numbers designate two-semester courses, the second semester of which must be completed in order to establish credit. Numbers separated by a comma designate two-semester courses, the first of which is prerequisite to the second but either semester of which is a unit of credit.

Calendar and Time Schedule

The academic year is divided into two semesters of fourteen weeks each, separated by a January term of four weeks. Final examinations are given in the last week of each semester during a regular class period or periods.

Unless otherwise stated, courses meet three fifty-minute periods a week or two seventy-five minute periods.

Classes ordinarily meet Monday, Wednesday, Friday; or Tuesday, Thursday. Classes do not meet on Saturday. The class day extends from 8:30 to 4:15 on Monday, Wednesday, and Friday and from 8:30 to 5:30 on Tuesday and Thursday. A few advanced classes meet from 7:00 to 10:00 Tuesday evening.

Unit of Credit

The unit of credit is a course. Each course, including each January term offering, has a value of four semester hours.

Course Load

A student ordinarily elects four courses each semester; she may elect a maximum of five. A student who elects fewer than three courses is classified as a part-time student.

Auditing

A student who wishes to audit a course includes the audited course in her program at the time of registration. The course is listed with the written permission of the instructor and the adviser.

Students may elect courses for which they do not have the stated prerequisite provided permission is given by the instructor, the advisor, and the Dean.

AMERICAN STUDIES

Departments of economics, English, history, music, philosophy, political science, religion, sociology and anthropology

WILLIAM L. NEUMANN, Ph.D., *Professor of History, Chairman of the Interdepartmental Committee to Administer the Major*

The major in American studies is designed for students who want to study the life and institutions of the United States as a totality, both in the present and in the past. It draws upon materials chiefly in the field of the humanities, history and the social sciences. Because American culture is both part of and derived from a larger Western civilization, the student must have some understanding of the greater area.

This major is of interest not only to students who wish to live a life of awareness of their cultural environment, but also to those who plan careers in such fields as teaching, politics, journalism, or diplomacy.

The student is required to select a minimum of ten courses from those listed below. Three of the courses must be at Level III in at least two of the disciplines composing the major. At least two of the ten courses must be devoted primarily to aspects of American culture before the twentieth century in order to provide depth in understanding the present. For breadth students must also distribute their minimal ten courses among at least four of the five following departments: economics, English, history, political science, and sociology and anthropology.

Students are urged to take independent work or courses giving training in the techniques of research. Some knowledge of statistics is essential for research or understanding in many of the fields comprising the major.

A senior seminar, required of all majors, provides the opportunity to integrate the various disciplines comprising the major around some important themes or questions.

American Studies 395

Readings in cross-disciplinary literature with the purpose of correlation and integrating the broad approach with the specialized fields previously studied. Required of senior majors.

Second semester. MR. NEUMANN.

Economics 201 The Economic Development of Nineteenth Century America

First semester. MR. McLEWIN.

Economics 202 The Modern United States Economy in Historical Perspective

Second semester. MR. McLEWIN.

Economics 241 Money, Banking, and Monetary Policy

First semester. MR. REUSS.

Economics 251 Public Finance

First semester. MRS. SAWHILL.

Economics 255 Urban Economics

First semester. MRS. SAWHILL.

Economics 264 Contemporary Policy Controversies

Second semester. MR. McLEWIN.

Economics 271 International Economic Relations

Second semester. MR. FARLEY.

English 141 The Writer and the World: Joseph Conrad and Henry James*Second semester.* MISS BELFORD.**English 228 Major American Writers***First semester, repeated second semester.* MEMBERS OF THE DEPARTMENT.**English 250 Topics in American Literature to 1900***First semester.* MR. HEDGES.**English 260 Topics in Twentieth Century Literature***First semester.* MR. HEDGES, MISS HOWE.**English 275 Twentieth Century Poetry***Second semester.* MISS HOWE.**English 281 Literature and Ideas***Second semester.* MR. HEDGES, MISS HOWE.**English 362 Studies in Recent American Fiction***First semester.* MR. SCRUTON.**English 370 William Faulkner***First semester.* MR. HEDGES.**History 260 Colonial and Revolutionary America***First semester.* MISS DORSEY.

Not offered 1970-71.

History 261 Nationalism and Expansion in the United States*Second semester.* MRS. BAKER.**History 262 Idealism and Materialism in Twentieth Century America***First semester.* MR. NEUMANN.**History 265 History of Minority Groups in American Life***First semester.* MRS. BAKER.**History 342 Selected Problems in Early American History***Second semester.* MRS. BAKER.**History 343 Problems in Twentieth Century American History***First semester.* MR. NEUMANN.**History 345 American Intellectual History***Second semester.* MR. HEDGES.

Not offered 1970-71.

History 350-351 Modern Diplomatic History*First and second semesters.* MR. NEUMANN.**Music 216 The Heritage of American Music***Offered at The Johns Hopkins University first semester, September 14-December 18, 1970.* MR. GALKIN.

Political Science 216 Seminar on Dynamics of National Security*First semester.* MR. HELFMAN.**Political Science 219 Political Culture***Second semester.* MISS GITHENS.**Political Science 230 Political Problems in States and Cities***First semester.* MRS. ERMER.**Political Science 235 Ethnic Politics***First semester.* MRS. ERMER.**Political Science 237 Planning***Second semester.* MRS. ERMER.**Political Science 240 The American Political Process***First semester.* MR. MUNNS.**Political Science 260 Public Administration***Second semester.* MR. MUNNS.

Not offered 1970-71.

Political Science 270 American Constitutional Law I*First semester.* MR. COOPERMAN.**Political Science 272 American Constitutional Law II***First semester.* MR. COOPERMAN.

Not offered 1970-71.

Political Science 330 Seminar in Regional, State, and Metropolitan Politics*Second semester.* MRS. ERMER.**Political Science 340 Seminar in Selected Aspects of American Politics***Second semester.* MR. MUNNS.

Not offered 1970-71.

Political Science 370 Problems in American Constitutional Law*Second semester.* MR. COOPERMAN.

Not offered 1970-71.

Political Science 380 Seminar in Public Affairs*Second semester.* MR. MUNNS.**Religion 210 Religion in America***First semester.* MR. CHAMBERLAIN.

Not offered 1970-71.

Religion 211 American Religious Thought*First semester.* MR. McCLENDON.

Not offered after 1970-71.

Sociology 210 Family and Kinship*First semester.* MRS. ROSSI.

Sociology 235 Sex and Society

Second semester. MRS. ROSSI.
Not offered 1970-71.

Sociology 245 Social Inequality

Second semester. MRS. ROSSI.

Sociology 254 Higher Education in Contemporary Society

First semester. MRS. ROSSI.

Sociology 285 Community Studies

First semester. MRS. QUINN.
Not offered 1971-72.

Sociology 295 Research Seminar in Social Problems

First semester. MEMBERS OF THE DEPARTMENT.
Not offered 1970-71.

Sociology 310 Seminar in Sociology of the Family

Second semester. MRS. ROSSI.
Not offered 1971-72.

Sociology 320 Seminar on Women's Movements

Second semester. MRS. ROSSI.
Not offered 1970-71.

BIOLOGICAL SCIENCES

GAIRDNER BOSTWICK MOMENT, Ph.D., *Professor Emeritus*
HELEN B. FUNK, Ph.D., *Professor*
HELEN M. HABERMANN, Ph.D., *Professor*
H. MARGUERITE WEBB, Ph.D., *Professor* (on leave of absence 1970-71)
ANN MATTHEWS LACY, Ph.D., *Associate Professor; Chairman*
MARTIN BERLINROOD, Ph.D., *Assistant Professor*
JOHN W. FOERSTER, M.S., *Instructor*
NANCY COLLIER FAIT, A.B., *Assistant*

The aim of courses in the biological sciences is to help the student to understand the unifying concepts about the nature of life, the methods for the study of living things, and the relevance of these concepts and methods to human affairs; and, in addition, to appreciate the diversity of living forms and the significance of their natural relations to one another and to their environment. The department seeks to give the student the basic knowledge necessary for graduate study, research in the biological sciences, teaching, and work in the various phases of the medical sciences.

A major in the department consists of nine courses in biological sciences: at least four Level II courses, three Level III courses (two of which must have laboratory), Integrative Exercise, and a ninth course selected from Levels II and III. With the approval of the department, a Level II or III course in another department in Faculty III may be substituted for the ninth course in biological sciences. Chemistry 230 is also required for the major and may not be substituted for a course in biological sciences.

The departmental offerings at Level II given every year are divided into the following three groups:

<u>Group 1</u>	<u>Group 2</u>	<u>Group 3</u>
Bio. Sc. 211	Bio. Sc. 260 (225)	Bio. Sc. 245
Bio. Sc. 230	Bio. Sc. 235	Bio. Sc. 250

In fulfilling the requirement of four Level II courses a student must elect both courses in Group I and one course from each of the other groups.

All Level III laboratory courses are offered on a regularly rotating basis. One Level III seminar is offered each semester. The instructors, and thus the topics, for these seminars are rotated. Consult course listings for years in which different Level III courses are offered.

Independent work may be pursued for one or two semesters under the direction of a member of the department and may be substituted for one or two Level III courses, but for only one Level III laboratory course. Prerequisite for independent study is permission of the instructor and approval of the department.

By the end of her junior year, each major must submit her plans for the Integrative Exercise to the department for approval. The following options are available:

1. A Level III seminar, if integrative in nature.
2. A long, critical, integrative research paper prepared during the January term under the direction of a department member.
3. Independent study with emphasis on the use of methods and thought from more than one area of biology.

Students planning to major in biological sciences should attempt to complete Biological Sciences 100, 211, and Chemistry 230 by the end of the sophomore year. Chemistry 235 is strongly recommended. Students contemplating a major in biological sciences should consult a member of the department as early as possible.

Students planning to attend medical school should consult the section on premedical studies.

Majors of the classes of 1971, 1972, and 1973 may substitute Biological Sciences 225 for 260, and Biological Sciences 223 for 245. Majors of the class of 1971 may also count Integrative Exercise as one of the required Level III courses. Interdepartmental majors and others with special cases should consult their advisers.

The Biological Sciences Club in its program of weekly seminars provides opportunity for extension of the work of the major through research reports by faculty, students, and visiting scientists. Additional opportunities are available for study at a number of biological laboratories which offer summer programs.

100 Foundations of Biological Science

Theories and concepts derived from studies of living forms. Emphasis on the pivotal roles of mitosis, meiosis, photosynthesis, and metabolism as determinants of differentiation, ecology, and evolution. Prerequisite: one of the following: a high school laboratory course in chemistry, Chemistry 103, 115, 190. Three hours lecture, three hours laboratory.

First semester, repeated second semester. MEMBERS OF THE DEPARTMENT.

111 Human Genetics for Humanists

Basic concepts of heredity with examples from human genetics. Discussion of current and future genetic problems of general concern to man.

First semester. MISS LACY.

199 Freshman Seminar: Plants in Human Affairs

Influence of botany on the economic, social, and cultural history of man. Economically important plants and their products: foods, fibers, industrial raw materials, structural materials, drugs. Role of plants in the evolution and maintenance of life. Relevance of botany to current human problems.

First semester. MISS HABERMANN.

211 Principles of Genetics

Concepts of heredity and their applications in a wide variety of organisms from bacteria to humans. Prerequisite: Biological Sciences 100. Not open to freshmen. Permission of instructor required for students who have completed Biological Sciences 111.

Second semester. MISS LACY.

225 Invertebrate Zoology

Evolution as a process leading to a wide variety of animals characterized in terms of morphology, physiology, behavior, and geographic distribution. Lectures on classification, mechanisms of speciation, natural selection, adaptation to

habitat, behavior, and reproductive isolation. Laboratory work includes anatomy and identification, and physiology of adaptation. Prerequisite: Biological Sciences 100. Three hours lecture, three hours laboratory.

Second semester. MR. MOMENT.

Not offered after 1970-71.

230 Plant Physiology

The coordinated processes and controlling factors in vegetative and reproductive development of higher plants. Laboratory studies of plant structure and function with emphasis on cellular metabolism, growth substances, bio-assay and tracer techniques. Prerequisite: Biological Sciences 100. Three hours lecture throughout the semester, six hours laboratory last half of the semester.

First semester. MISS HABERMANN.

235 Vertebrate Embryology

Introduction to the theories, problems, and facts of animal development with emphasis on amphibians, birds, and mammals. Prerequisite: Biological Sciences 211. May be elected concurrently with Biological Sciences 211. Three hours lecture, three hours laboratory.

Second semester. MR. BERLINROOD.

245 Ecology and Field Biology

The development, interrelationships, and maintenance of organisms and their environment. Terrestrial and aquatic ecology. Field observations. Prerequisite: Biological Sciences 100. Three hours lecture throughout the semester, six hours laboratory and field work first half of the semester.

First semester. MR. FOERSTER.

250 Introduction to Microbiology

Principles of isolation and cultivation of microbes. Analysis of microbial populations and of factors that affect their development and activities in natural processes such as those in soil, water, and disease. Uses of microorganisms in agriculture, industry, medicine, and waste disposal. Prerequisite: Biological Sciences 100. Two hours lecture, four hours laboratory, one of which is unscheduled.

First semester. MISS FUNK.

260 Principles of Animal Physiology

The basic vital functions of animals: energy exchange, response to environmental conditions, internal coordination (nervous and hormonal), reproduction. Emphasis on recognition of the functional equivalence of physiological processes in contrast to structural variations. Laboratory work introduces standard methods used in physiology and includes planning and carrying out short-term individual or group projects. Three hours lecture, three hours laboratory.

First semester. MISS WEBB.

Not offered 1970-71.

300 Resource Use and Pollution

Man's use of his environment. Natural resource use, pollution, population growth. Integration of theoretical and factual knowledge from the fields of biology, economics, and political science. Joint research project on a topic selected by the class. Open to majors in biological sciences, economics, and political science who have had at least one course in one of the other fields outside the major. Three hours lecture, three hours laboratory.

Second semester. MR. FOERSTER.

311 Advanced Genetics

The gene, its activity and regulation. Special emphasis on developmental genetics. Laboratory experiments on *Neurospora crassa* and *Drosophila melanogaster*; cytogenetics and pedigree analyses of *Homo sapiens*. Prerequisites: Biological Sciences 211, Chemistry 230, and junior standing. Three hours lecture, three hours laboratory.

First semester. MISS LACY.

Not offered 1970-71.

335 Problems in Animal Development

A study of selected problems including a review of the literature, an evaluation of the current state of relevant knowledge, and laboratory experience with modern methods of investigation. Prerequisite: Biological Sciences 235. Two hours lecture, four hours laboratory.

First semester. MR. BERLINROOD.

Not offered 1971-72.

351 Advanced Microbiology

Principles of taxonomy in the bacteria and in viruses. Cultivation of selected groups of bacteria and viruses. Bioassays, antibiotic sensitivity tests, and other advanced techniques. Prerequisite: Biological Sciences 250. Three hours lecture, four hours laboratory.

First semester. MISS FUNK.

Not offered 1970-71.

360 Experimental Animal Physiology

Laboratory-seminar. Individual or group projects from the following areas: hormonal regulation in arthropods and vertebrates, biological rhythms, muscle-nerve physiology, homeostatic mechanisms. Emphasis on identification of specific problems, design and implementation of experiments, and the communication of results and their significance. Seminar reports on background, progress of work, and final state of projects. Prerequisite: Biological Sciences 225 or 260. Three hours lecture, four hours laboratory.

Second semester. MISS WEBB.

Not offered 1970-71.

370 Selected Topics in Molecular Biology

Biophysical and biochemical approaches to problems in cellular and molecular biology. Emphasis on laboratory experience in isolation of subcellular organelles, enzyme purification, spectrophotometry, fluorescence assay, estimation of nucleic acids, and methods of photobiology. Prerequisite: Biological Sciences 230 or Chemistry 240. Three hours lecture, four hours laboratory.

Second semester. MISS HABERMANN.

Not offered 1971-72.

395 Current Problems in Biology

Readings and discussions which provide opportunity to extend knowledge of the biological sciences. General areas 1970-71: first semester, marine ecology; second semester, microbiology. 1971-72: first semester, radiation biology; second semester, embryology. 1972-73: first semester, marine ecology; second semester, genetics. Enrollment limited. Prerequisite: permission of the department. May be reelected.

1970-71: *first semester*, MR. FOERSTER; *second semester*, MISS FUNK.

CHEMISTRY

JAMES L. A. WEBB, Ph.D., *Professor; Chairman*

BARTON L. HOUSEMAN, Ph.D., *Associate Professor*

LEWIS A. WALKER, Ph.D., *Associate Professor*

DONNA L. BERGLUND, Ph.D., *Assistant Professor*

DAVID E. HORN, Ph.D., *Assistant Professor*

HILDA C. FISHER, M.L.A., *Supervisor of Laboratories*

The department of chemistry is on the Approved List of the American Chemical Society. Course offerings, faculty, library, equipment, and budget of the department meet the standards of the Society.

A student has the choice of three different programs: the basic major, the major with emphasis on biochemistry, and the major leading to certification by the American Chemical Society.

The basic major, in addition to preparing a student to be a citizen of the modern world, supplies the background necessary for a person planning to teach chemistry in high school or general science in elementary grades, to work as a research assistant in a chemical or medical laboratory, or to continue study for an advanced degree.

Chemistry 115, 150, 230, 235, 254, 261, 330, 350, J350, 361, 372 or 340, Mathematics 115, 116,
Physics 115, 116.

The major with emphasis on biochemistry is designed primarily for those students whose interest lies in the area of the life sciences. Upon graduation the student may wish to enter medical school, continue for an advanced degree in

biochemistry, or become a research assistant in this area. This program also supplies the necessary science background for teaching chemistry in high school or general science in elementary grades.

Chemistry 115, 150, 230, 235, 240, 254, 262, 330, 340, 350, J350, Mathematics 115, 116, Physics 115, 116. Courses in biological sciences beyond Biological Sciences 100 and 211 are recommended.

The major leading to ACS certification prepares the student for any career in chemistry, including study toward the Ph.D. degree.

Chemistry 115, 150, 230, 235, 254, 261, 330, 350, J350, 361, 372, 340 or a semester of independent work, Mathematics 115, 116, Physics 120, 121, 220. The college language requirement should be satisfied by either German or Russian.

Independent work may be elected as a full course and may extend over one or more semesters.

Courses in mathematics beyond those required are strongly recommended for students anticipating graduate work in chemistry.

The college requirement for an integrative experience in the major may be fulfilled by Chemistry 350 and J350.

Students planning to major in chemistry should elect Chemistry 115, 150, and Mathematics 115 and 116 in the freshman year. In the sophomore year those students following the *basic or biochemistry* route should elect: Chemistry 230, 235, Physics 115, 116. In the sophomore year those students following the major leading to ACS Certification should elect Chemistry 230, 235, Physics 120, 121.

Students planning to apply for admission to medical school should, as soon as possible, request a conference with the chairman of the chemistry department, who is also chairman of the Premedical Advisory Committee. See also the pre-medical studies program.

Students planning to teach in public elementary or high school after graduation should make these plans known to the chairmen of the departments of chemistry and education as early as possible.

The Chemistry Seminar meets throughout the year for reports by junior and senior chemistry majors and visiting scientists.

Courses of particular interest to nonscience majors are Chemistry 103, 115, and 190.

103 Earth, Air, Fire, and Water

A look at matter which surrounds us in a manner relevant to the twentieth century nonscientist with the aim of providing insight into the chemistry of living systems. Three hours lecture, no laboratory.

First semester. MR. HORN, MR. HOUSEMAN, MR. WEBB.

115 Principles of Chemistry I

Structure and properties of atoms and molecules and the states of matter; relation of structure to the properties of elements and simple compounds; properties of solutions; acid-base and redox reactions in solution. Three hours lecture, three hours laboratory.

First semester, MR. WALKER; *second semester,* MISS BERGLUND.

150 Principles of Chemistry II

The theory of chemical kinetics, electrode chemistry, aspects of solution equilibria, including solubility, acid-base reactions, redox reactions, and complex formation. The application of these theories to gravimetric and volumetric analysis. Prerequisite: Chemistry 115. Three hours lecture, three hours laboratory.

Second semester. MR. WALKER.

190 The Chemistry-Life Interface

Chemistry for consumers. Topics include: food additives, cosmetics, cleaning agents, water purification, radioactive fallout, control of environmental pollution. Prerequisite: high school chemistry or Chemistry 103 or Chemistry 115. Three hours lecture, two hours laboratory.

Second semester. MR. HOUSEMAN.

230 Organic Chemistry I

Chemistry of the compounds of carbon with emphasis on the relation of molecular structure to chemical and physical behavior. Laboratory work includes appropriate techniques and synthetic and analytical methods. Prerequisite: Chemistry 115. Not open to freshmen. Three hours lecture, six hours laboratory.

First semester. MR. WEBB.

235 Organic Chemistry II

Continuation of Chemistry 230. Includes practice in the use of reference books and periodicals in the field. Prerequisite: Chemistry 230. Three hours lecture, six hours laboratory.

Second semester. MR. WEBB.

240 Biochemistry I

Structure and function of biological molecules; chemistry of enzymecatalyzed reactions; intermediary metabolism. Laboratory instruction in biochemical research methods. Prerequisites: Biological Sciences 100, Chemistry 235 and 150. Three hours lecture, three hours laboratory.

First semester. MR. HORN.

254 Analytical Chemistry: Intermediate Quantitative Analysis

Study of more complex ionic equilibria; electrochemistry; colloidal phenomena. Laboratory work: classical and instrumental methods of separation and analysis. Prerequisite: Chemistry 261 or 262. Three hours lecture, three hours laboratory.

Second semester. MR. WALKER.

261 Physical Chemistry I

Thermodynamics and its application to chemical systems; chemical kinetics and the elucidation of reaction mechanisms; properties of solutions. Prerequisites: Chemistry 150 and 235, Physics 116 or 121. Three hours lecture, three hours laboratory.

First semester. MR. HOUSEMAN.

262 Physical Chemistry for the Life Sciences

Physical chemistry and its application to biochemical systems. Prerequisites: Chemistry 150, 235, and Physics 116 or 121. Three hours lecture, three hours laboratory.

First semester. MISS BERGLUND.

330 Organic Chemistry III

Topics in advanced organic chemistry. Laboratory work in qualitative organic analysis. Prerequisite: Chemistry 262 or 361. Three hours lecture, six hours laboratory.

First semester. MR. HORN.

340 Biochemistry II

Protein synthesis, DNA, enzyme mechanisms, intermediary metabolism. Prerequisites: Chemistry 240, and 262 or 361. Three hours lecture, three hours laboratory.

Second semester. MR. HORN.

350 Analytical Chemistry: Advanced Quantitative Analysis

Theoretical aspects of instrumental methods of analysis. Prerequisite: Chemistry 262 or 361. Three hours lecture.

First semester. MR. WALKER.

J350 Instrumental Methods

Laboratory work in methods of instrumental analysis. Prerequisite: Chemistry 350.

January term. MR. WALKER.

361 Physical Chemistry II

Elementary quantum mechanics, atomic and molecular structure and spectra, chemical bonding. Prerequisite: Chemistry 261. Three hours lecture, three hours laboratory.

Second semester. MR. HOUSEMAN.

372 Inorganic Chemistry

Relation of properties of elements and inorganic compounds to theories of bonding, structure, thermodynamics, and nuclear structure; Ligand field theory. Laboratory work in inorganic analysis. Prerequisite: Chemistry 361. Three hours lecture, three hours laboratory.

Second semester. MISS BERGLUND.

CLASSICS

BROOKE PEIRCE, Ph.D., *Professor of English* (on leave of absence 1970–71)

JOHN V. CHAMBERLAIN, Ph.D., *Associate Professor of Religion* (on leave of absence 1970–71)

CHESTER F. NATUNEWICZ, Ph.D., *Associate Professor; Chairman*

ROBERT CHARLES SCHMIEL, Ph.D., *Assistant Professor*

CHRISTINE DUNBAR SARBANES, M.A., *Lecturer*

The goal of the department is to help the student familiarize herself with the Graeco-Roman civilization and its relation to the modern world. Particular emphasis is placed on the essential unity of Western culture from Homer to the present day and on the importance of Rome as a transmitter of the Greek heritage. Emphasis is also given to literary critical methods. Independent work, extending over one or two semesters, may be elected by qualified students. January terms offer opportunities for special courses and projects not included in the regular curriculum.

Students majoring in the classics elect courses in both Greek and Latin. A total of eight Level II and III courses in the two languages is required in addition to Classics 395, History 200, 303, 305. The following courses in allied fields are recommended: World Literature 211, 213, 215, 261, 269; Visual Arts 230, 231, 232; Philosophy 260, 263; Religion 230; and Level II and III courses in English literature. All classics majors are advised to acquire a reading knowledge of French or German; those planning to do graduate work should acquire a reading knowledge of both.

The above is the normal classics major and is strongly recommended for students who plan to go on to graduate school. For students with less specialized interests, alternate programs, such as the following, can be arranged:

Greek Studies: five Level II and III courses in Greek and one semester of independent work, and at least three of the following: Philosophy 260, 263; Visual Arts 230, 231, 232; Religion 230; History 200 and 303. World Literature 211 and 213 are recommended.

Roman Studies: five Level II and III courses in Latin, one semester of independent work, and at least three of the following: History 200 and 305; Visual Arts 230, 231, 232; Religion 230. World Literature 211 and 215 are recommended.

Roman Studies for Secondary School Teachers of Latin: five Level II and III courses in Latin; History 200 and 305; Visual Arts 230 or 231 or 232; Education 207, 251, 253, and J353 or S353; recommended courses: Education 210; World Literature 211, 213, 215, and 269.

The department is receptive to student requests for interdepartmental majors to the extent that such programs can be worked out among the departments concerned and within the limits of available personnel.

The integrative exercise for majors in the department takes the form either of a special seminar (Classics 395) or an independent project. Since the study of classics is itself interdisciplinary in nature, combining such fields as literature and language, history, art, religion, philosophy, and science, work done to assure such an integrative experience employs the methodologies of these several areas of study and focuses on a particular period, event, personality, movement, or problem.

In 1970–71 the department of classics at Goucher is cooperating in an exchange of courses with Loyola College. Enrollment in all courses in the department is open to students from Loyola, while Latin 111 and 112 at Loyola are open to students from Goucher. Latin 111 and 112 are equivalent to Level II courses at Goucher. A Level II course in either Latin or Greek satisfies the Goucher foreign language requirement. For students beginning Greek or Latin at Goucher, successful completion of either Greek 110, 130 or Latin 110, 130 satisfies the foreign language requirement.

Descriptions of the following courses in translation may be found under World Literature:

- 211 The Ancient Epic
- 213 Ancient Drama
- 215 Ancient Historiography and Biography
- 261 The Epic Tradition in Later Western Literature
- 269 The Classical Tradition: Backgrounds of Modern Literature

GREEK

110 Elementary Greek

Designed to give a thorough reading knowledge of Greek. Practice in grammar, vocabulary, and composition. Selections from Attic prose and poetry. Six class hours.

First semester. MR. NATUNEWICZ.

130 Intermediate Greek

Six class hours.

Second semester. MR. NATUNEWICZ.

201 Early Greek Poetry

Selections from the *Iliad* or the *Odyssey*. Additional readings from the *Homeric Hymns*, Hesiod, or early elegy. Discussion of oral composition, including the problems of criticism and interpretation. Prerequisite: Greek 130.

First semester. MR. SCHMIEL.

220 New Testament Greek

Exegetical translation of selected portions of Greek New Testament. Designed to aid students who have mastered the fundamentals of classical Greek grammar and syntax to read the Koine with facility, and to interpret the New Testament with accuracy. Prerequisite: Greek 130.

Second semester. MR. CHAMBERLAIN.

Not offered 1970–71.

311 Archaic Greek Literature

The choral and solo lyric poets, the elegiac poets and Herodotus. Prerequisite: Greek 201.

Second semester. MR. SCHMIEL.

Not offered 1971–72.

321 Classical Greek Literature I

The tragedies of Aeschylus, Sophocles, and Euripides. Prerequisite: Greek 201.

Second semester. MR. SCHMIEL.

Not offered 1970–71.

331 Classical Greek Literature II

The Peloponnesian wars and the collapse of the Periclean democracy as reflected in the writings of Thucydides and Aristophanes. Prerequisites: Greek 201 and one Level III course in Greek.

First semester. MR. NATUNEWICZ.

Not offered 1970–71.

341 Hellenistic Greek Literature

The first "battle of ancients and moderns": the nature of post-classical Greek literature and its influence upon Roman writers. Readings from Menander, Apollonius of Rhodes, Callimachus, and Theocritus. Prerequisite: Greek 201.

First semester. MR. SCHMIEL.

Not given 1971–72.

LATIN

110 Elementary Latin

Designed to give a thorough reading knowledge of Latin. Practice in grammar, vocabulary, and composition. Selections from Latin prose and poetry. Four class hours.

First semester. MR. SCHMIEL.

130 Intermediate Latin

Four class hours.

Second semester. MR. SCHMIEL.

206 Latin Literature of the Empire

Prose and poetry from 44 B.C. to A.D. 150. Selections from the works of such authors as Vergil, Livy, Ovid, the elegiac poets, and the satirists. Prerequisite: Latin 130.

Second semester. MR. NATUNEWICZ.

220 Medieval Latin Literature

Prose and poetry of the Middle Ages. Analysis of changes in the language and style of written Latin during the medieval period. Prerequisite: Latin 130.

Second semester. MR. NATUNEWICZ.

Not offered 1970–71.

300 Cicero

Orations and philosophical essays. Prerequisite: a Level II course in Latin.

First semester. MR. NATUNEWICZ.

Not offered 1971–72.

321 The Latin Epic

Readings from such authors as Lucretius, Vergil, and Lucan. Prerequisite: a Level II course in Latin.

Second semester. MR. SCHMIEL.

Not offered 1970–71.

330 Roman Satire

A study of that genre which the Romans considered their own. The nature and range of satire in the works of Horace, Juvenal, Martial, Petronius, and Seneca. Prerequisite: a Level II course in Latin.

Second semester. MR. SCHMIEL.

Not offered 1971–72.

340 The Fall of the Roman Republic and the Emergence of the Empire

Readings from Cicero's letters and orations, Sallust, Caesar, Suetonius, and Tacitus. Prerequisite: a Level III course in Latin.

Second semester. MRS. SARBANES.

Not offered 1971–72.

LATIN COURSES AT LOYOLA COLLEGE OPEN TO GOUCHER STUDENTS

(equivalent to Level II courses at Goucher)

111 Latin Literature of the Republic

Prose and poetry from 250 to 43 B.C. Selections from the works of such authors as Plautus, Terence, and Catullus. Prerequisite: Latin 130.

First semester. THREE SEMESTER HOURS.

112 Horace

Selected odes and the *Ars Poetica*. Prerequisite: Latin 130.

Second semester. THREE SEMESTER HOURS.

CLASSICS

395 Seminar

Readings, research projects, and papers on selected topics in Graeco-Roman antiquity. Required of classics majors. Open to others by permission of the instructor.

Second semester. MR. NATUNEWICZ.

Not offered 1970–71.

ECONOMICS

FREDERICK GUSTAV REUSS, Dr.jur.et rer. pol., *Professor Emeritus; Acting Chairman, first semester*

NOEL J. J. FARLEY, Ph.D., *Associate Professor; Chairman (on leave of absence first semester 1970–71)*

PHILIP J. McLEWIN, A.M., *Assistant Professor*

ISABEL V. SAWHILL, Ph.D., *Assistant Professor*

Instructor to be appointed

Students who intend to major in economics should complete Economics 100 and 101 by the end of the sophomore year. Major students take Economics 206 and a minimum of seven other Level II and III courses in economics, two of which must be at Level III. The election of two of the three seminars (Economics 348, 361, 381) provides majors with two opportunities for independent study and integrative experience.

100 The National Income

Economic analysis and public policy. Basic economic problems and decisions which affect growth and development in modern economies. The quest for full employment and higher standards of living and ways in which a society organizes to define and attain these aims. The roles of consumption and investment, money and banking systems, and government fiscal policies in determining the total income of society.

First semester, repeated second semester. MEMBERS OF THE DEPARTMENT.

101 Economics of the Market System

The organization of production and distribution of goods and services within the institutional framework of the American economy. The interrelationship of costs, prices, and output. Competition, monopoly, and other market structures in the modern economy; the role of government within these structures. Prerequisite: Economics 100.

First semester, repeated second semester. MEMBERS OF THE DEPARTMENT.

110 Field Work in Economics

Work in selected stock brokerage firms, one-half day a week, under the joint supervision of executives of the firms and members of the department. Prerequisites: Economics 101 and permission of the instructor.

Half-course. First semester. MR. REUSS.

201 The Economic Development of Nineteenth Century America

The process of structural change in nineteenth century America. The interaction between institutional change and economic development. The roles of capital formation, technical change, the availability of land, and changes in the character of the labor force in determining the nature and rate of economic growth. Prerequisite: Economics 100.

First semester. MR. McLEWIN.

202 The Modern United States Economy in Historical Perspective

Development and growth of the United States economy in the twentieth century. The changing structure and nature of production and demand; the role of government policy, particularly at the federal level. Current economic problems and policies in historical perspective. Prerequisite: Economics 100.

Second semester. MR. McLEWIN.

206 Economic Statistics

Introduction to the use and interpretation of statistics in economics. Time series, index numbers, seasonal and cyclical movements, linear regression analysis. Introduction to econometrics and the use of the computer. Three hours lecture, two hours laboratory. Prerequisite: Economics 101.

Second semester. INSTRUCTOR TO BE APPOINTED.

210 Advanced Field Work in Economics

Continuation of Economics 110. In addition to more independent work of the type done in Economics 110, students submit research papers. Prerequisites: Economics 110 and permission of the instructor.

Half-course. First semester. MR. REUSS.

216 Intermediate Micro Theory

The theory of consumer choice. The operation of product and factor markets for firm and industry under various market structures. Linear programming in the theory of the firm. General equilibrium analysis and welfare economics. Prerequisite: Economics 101. (Not open to students who have completed Economics 215.)

Second semester. INSTRUCTOR TO BE APPOINTED.

217 Intermediate Macro Theory

Modern theory of national income determination. Keynesian and classical models. Theories of fluctuations and growth in a mature economy. Possibilities and limitations of the theory as a guide to macroeconomic policy. Prerequisite: Economics 101. (Not open to students who have completed Economics 280.)

First semester. MRS. SAWHILL.

221 The Economics of Human Resources

Basic determinants of wage levels and wage differentials. Role of education, training, unions, minimum wage laws, discrimination, and other factors. Special attention to the earnings and employment of females and minority groups. Discussion of manpower policies designed to mitigate poverty and structural unemployment. Prerequisite: Economics 101. (Not open to students who have completed Economics 220.)

Second semester. MRS. SAWHILL.

231 A Comparative Analysis of Economic Planning

Goals of economic planning. Organizational structure of planning authorities. The process of planning. Models of economic planning and the tools used to achieve planning goals. The results of economic planning. Emphasis on Soviet, Scandinavian, Indian, French, British, and Tanzanian planning. Prerequisite: Economics 101.

First semester. MR. FARLEY.

Not offered 1970–1971.

241 Money, Banking, and Monetary Policy

Commercial banking, the Federal Reserve System, and other financial institutions as a framework for understanding monetary theory and policy. The effectiveness of monetary policy, its relation to other stabilization tools, and proposals for its reform. International aspects of monetary policy. Prerequisite: Economics 101. (Not open to students who have completed Economics 240.)

First semester. MR. REUSS.

251 Public Finance

The role of government in the economy. Criteria judging government expenditures, revenues, and debt. Fiscal policy in theory and in practice. Discussion of such current issues as tax reform, revenue sharing, and the success of the “new economics,” and the challenge of the monetary school. Prerequisite: Economics 101. (Not open to students who have completed Economics 250.)

First semester. MRS. SAWHILL.

255 Urban Economics

The city as an economy: its needs, opportunities, and resources. Poverty, housing, transportation, pollution, and other urban problems. Local government finances and changing intergovernmental relations. Prerequisites: Economics 101 and permission of the instructor. (Open to students who have completed Interdepartmental Course 255 or 256 only by permission.)

First semester. MRS. SAWHILL.

261 History of Economic Thought

An examination of the ideas of the leading thinkers in the development of economics with particular emphasis on the period since Adam Smith: Ricardo, Malthus, Marx, J. S. Mill, Jevons, Walras, Menger, Marshall, Keynes. The ideas of these men in relation to the world they saw around them. Prerequisite: Economics 101.

First semester. INSTRUCTOR TO BE APPOINTED.

Not offered 1970–1971.

264 Contemporary Policy Controversies

Analysis of major controversial economic issues in the post 1945 American economy. Problems relating to full employment, price stability, and achieving an adequate rate of economic growth; the problem of poverty with particular emphasis on large metropolitan areas; the problem of public squalor in the midst of private affluence. Prerequisite: Economics 100. (Not open to students who have completed Economics 208.)

Second semester. MR. McLEWIN.

271 International Economic Relations

The theory of international specialization and the basis of trading relationships. The balance of payments and factors influencing the level of foreign reserves; adjustments to balance of payments disequilibria. The causes and consequences of restrictive commercial policies; international cooperation. Case studies based on recent experience in the United States. Prerequisite: Economics 101. (Not open to students who have completed Economics 270.)

Second semester. MR. FARLEY.

281 The Process of Economic Development

Theories relating to the structural transformation of economies in the process of economic development. The nature of economic performance in agriculture. Problems of industry and determinants of the character of industrialization. Determinants of saving and investment. Causes and consequences of inflation. Prerequisite: Economics 101. (Not open to students who have completed Economics 370.)

Second semester. MR. FARLEY.

299 Advanced Economic Theory

Selected topics in macro and/or micro economics. Statistical and econometric methods as tools of economic analysis. Prerequisites: Economics 216, 217; Mathematics 115, 116 (or Mathematics 109 and 112).

Second semester. INSTRUCTOR TO BE APPOINTED.

Not offered 1970–1971.

348 Seminar in Money and Finance

Concentrated study of an aspect of money and finance. Specific topics to be chosen from such areas as monetary theory and policy, fiscal policy for growth and stability, and analyses of taxes and expenditure patterns of government. The choice of emphasis to be made in consultation with students. Emphasis on independent work with a flexible class schedule and student-faculty consultation on an individual basis. Prerequisites: two Level II courses in economics, of which one must be either 241 (or 240) or 251 (or 250).

Second semester. MRS. SAWHILL.

361 Seminar in the History of Economic Thought

Selected topics in classical, neoclassical, and Keynesian economics. Course content to be determined according to the interests of students. Emphasis on independent writing by students. Prerequisites: two Level II courses in economics. (Not open to students who have completed Economics 395.)

Second semester. INSTRUCTOR TO BE APPOINTED.

381 Seminar in International Economics and Development

Concentrated study of an aspect of international economics and development, international trade and resource allocation, the international monetary mechanism, exchange rate policy, government policy and the developing countries, economic assistance programs, economic integration, economic planning. Specific topics to be chosen at the beginning of the semester depending on the interests of the students. Emphasis on independent work with a flexible class schedule and student-faculty consultation on an individual basis. Prerequisites: Economics 270 and one other Level II course in economics.

First semester. MR. McLEWIN.

EDUCATION

JANE MORRELL, Ed.D., *Professor*

ROLF MUUSS, Ph.D., *Professor*

BEULAH BENTON TATUM, Ph.D., LL.D., *Professor; Chairman*

ELI VELDER, Ph.D., *Associate Professor*

MARY RAFFLE ROBINSON, A.M., *Lecturer*

The department of education has as its primary purpose the preparation of teachers for the elementary and secondary schools. Teaching at either level requires three major areas of preparation: (1) thorough knowledge of the subject matter, (2) understanding of the learners, and (3) study of the means whereby knowledge is communicated. The first of these competencies is provided through courses designed to give breadth and depth in the liberal arts; the other two are provided through the courses in education. These last two aim to have each student gain an understanding of the learners' characteristics, the curriculum, the methods of teaching, the theories of learning and teaching, the relationship between theory and practice, and the school as a social institution.

Students who intend to teach in the elementary school may major in the department or major in combination with work in another department, either as a combination major or an education major with an area of specialization. The major includes Education 201 (or 200), 207 (or 206), 210 (or 364), 243, 247, 342. Education 243 should be taken in the junior year and should precede 247 and 342. [For the class of 1971: Education 200 or 201, 206 or 207, 210 or 364, 240, 242, 247, 342.] Following practice teaching (Education 342), seniors majoring in elementary education are required to demonstrate their ability to integrate the material and courses of the major by preparing a paper. The integrative paper shows the practical application of courses taken in education, the humanities, the social and natural sciences, and mathematics to the classroom situation.

The major in combination with another field is planned with the chairman of the department of education in consultation with the chairman of the other department.

Students who intend to teach in the secondary schools are majors in another department but take their education courses in the department of education. Education 251 should be taken in the junior year and should precede 253 and J353 or S353.

Since the requirements for teacher certification differ in the various states, the requirements in some states necessitating summer school work, it is important that all students who plan to teach in either the elementary or the secondary schools consult the department of education early in the sophomore year.

January term experiences may include field work in relation to educational psychology, to school libraries, to special education; may be group independent study of a current educational problem, of selected twentieth century educational philosophies. For students preparing to teach in the secondary schools, Education 352, Observation and Student Teaching in the Secondary School, will be offered during the January term plus the two weeks thereafter.

201 The Child, His Family, and the Community

Physical, mental, social, and emotional development of the child and the interaction of developmental forces. Family structure and relationships and their significance to the growth of family members. The structure of the community and its influence on children, family, and school. (Not open to students who have completed Education 200.)
Second semester. MR. MUUSS, MR. VELDER.

203 Adolescent Development

Theories of adolescent development. Emphasis on adolescent subculture and the adolescent's search for identity. Sexual maturation and its psycho-social implications. Conflict between the generations. Socio-cultural basis of adolescent behavior. Evaluation of research for the purpose of understanding and guiding the development of adolescents in the home, the school, the peer group, the community. (Not open to students who have completed Education 251.)
First semester. MR. MUUSS.

207 Psychological Foundations of Education

The nature and theories of the learning process and related concepts: reinforcement, transfer of training, memory and forgetting. Motivational systems of minority group students. Common patterns of learning difficulties with emphasis

on the inner city child. Role of the teacher and principles of teaching and learning. Psychology 110 recommended. (Not open to students who have completed Education 206.)

First semester. MR. MUUSS.

210 Development of Education in the United States

Educational theories and practices in colonial America and the United States in relation to general social conditions. Consideration of inequality in educational opportunities and of proposals for the future.

Second semester. MRS. TATUM.

243 Elementary School Curriculum I

Consideration of the objectives of elementary education and current trends in programs and school organization. Emphasis on the teaching of reading and the language arts. Attention to concepts, skills, and materials. Observations and participation in Baltimore City and County schools. Prerequisite: Education 207.

Second semester. MISS MORRELL.

247 Elementary School Curriculum II

Emphasis on the teaching of mathematics, social studies, science, health, safety, and physical education. Emphasis on concepts, skills, and materials related to each of these subjects. Development of self-expression and the enjoyment of art and music in relation to interests and capacities of children. Elected concurrently with Education 342. Prerequisite: Education 243 (or 242).

Two courses. First semester. MISS MORRELL, MRS. ROBINSON.

251 Adolescents and the Secondary School

Adolescent development: concepts, thoughts, interests, values and creativity. Contemporary adolescent society. Adolescent adjustments to school. Consideration of objectives of secondary education, planning for different types of learning activities, problems and trends. Observations in schools and community agencies and participation in Baltimore City and Baltimore County schools. Prerequisite: Education 207 (or 206). Not open to students who have completed Education 203 (or 250).

Second semester. MR. MUUSS, MR. VELDER.

253 Curriculum and Methods of Secondary School Teaching

Analysis of the curriculum and general methods of secondary school instruction. Part of the course devoted to special methods in the teaching of subjects which members of the class intend to teach. Consideration of relationship of subject to objectives of secondary education, structure and classroom organization, evaluation of text books in the subject, guidance functions, and extra-class activities. Observations in the schools. Prerequisite: Education 251.

First semester. MR. VELDER AND RESOURCE SPECIALISTS.

342 Observation and Student Teaching in the Elementary School

Student teaching under the supervision of the cooperating teacher to whom assigned and a member of the department of education of Goucher College. Assignments made possible through the cooperation of Baltimore City and Baltimore County school administrators. Completion of minimum of two hundred hours of teaching, participation, observation, and conference. Discussion of student teaching problems in a seminar meeting one hour a week. Prerequisite: Education 243 (or 242).

Two courses. First semester. MISS MORRELL.

J353 Observation and Student Teaching in the Secondary School

Student teaching under the supervision of the cooperating teacher to whom assigned and a member of the department of education of Goucher College. Assignments made possible through the cooperation of Baltimore City and Baltimore County school administrators. Completion of minimum of one hundred fifty hours of teaching, participation, observation, and conference. Hours for conference with Goucher supervisor arranged individually. Discussion of student teaching problems in a seminar meeting one hour a week. Prerequisite: Education 253.

One and one-half courses. January 4–February 12, 1971. MR. VELDER.

S353 Observation and Student Teaching in the Secondary School

Student teaching under the supervision of the cooperating teacher to whom assigned and a member of the department of education of Goucher College. Assignments in English, foreign languages, mathematics, science, social studies made possible through the cooperation of Baltimore City school administrators. Completion of minimum of one hundred fifty hours of teaching, participation, observation, and conferences. Hours for conferences with Goucher supervisor

arranged individually. Discussion of class teaching problems in a seminar meeting two afternoons a week. Prerequisites: senior standing; a minimum of six courses in the subject area to be taught; Education 207, 251, and 253.

One and one-half courses. Summer 1971. MR. VELDER.

Tuition: \$300, of which \$50 is payable before May 15.

380 Seminar: Schools and the Disadvantaged

Consideration of sociological forces, background, and characteristics of disadvantaged children and youth with special emphasis on the problems of minority groups. Evaluation of the role of the school and the methods of teaching in the inner city communities. Prerequisite: Education 342, J353, or S353.

Second semester. MR. VELDER.

Not offered 1970-71.

ENGLISH and DRAMATIC ARTS

MARVIN BANKS PERRY, JR., Ph.D.

SARA deFORD, Ph.D., *Professor*

GEORGE BRENDAN DOWELL, Ed.D., *Professor*

WILLIAM L. HEDGES, Ph.D., *Professor; Chairman*

WILLIAM R. MUELLER, Ph.D., *Professor*

BROOKE PEIRCE, Ph.D., *Professor* (on leave of absence 1970-71)

CHRYSTELLE TRUMP BOND, M.F.A., *Assistant Professor of Physical Education* (on leave of absence 1970-71)

PATRICIA CRADDOCK, Ph.D., *Assistant Professor*

FLORENCE HOWE, A.M., *Assistant Professor*

JUDSON RAY SCRUTON, A.M., *Assistant Professor*

DAVID A. SANDERS, A.B., *Instructor*

RODNEY JON UMLAS, M.F.A., *Instructor*

SARAH DOWLIN JONES, Ph.D., *Librarian*

FONTAINE M. BELFORD, A.M., *Lecturer*

MARY TAYLOR HESKY, A.M., *Lecturer*

CLARINDA HARRISS LOTT, M.A.T., *Lecturer*

The department of English and dramatic arts attempts to cultivate in students the capacity to respond to literature and drama, to make them aware of the significance of their literary heritage and its relation to the present. It teaches methods of literary analysis and criticism, studies language as a medium of expression in speech and writing, and attempts to help students realize and develop their own creative talents in writing and the dramatic arts.

A major in English is not for the most part determined by specific requirements. Planning the major so that it becomes a coordinated and systematic study is the responsibility of the student in consultation with her adviser. The new major should choose some aspect of or approach to the study of literature which interests her and can give coherence to her selection of courses. She may, for instance, develop her concentration around an interest in language, aesthetics, creative writing, a particular literary genre, a period in the development of English or American literature, or the expression of attitudes or ideas (religious, say, or political) in literature. By the end of the first semester in the major she presents her preliminary plans to the department. She is expected in her senior integrative study to demonstrate considerable continuity in her experience of literature.

A student planning to major in English should take at least two courses in English before the end of the sophomore year, including no more than one of the following: English 100, 102, 103, 104, 105, 106.

The major in English consists of eight courses at Levels II and III, including English 397 and at least two other courses at Level III. A student may count toward her major two courses in fields outside of English when her adviser agrees that they are germane to her program. Ordinarily the remainder of her major courses must be in English.

Students who began the major in 1969 or earlier are not required to present written plans of study, but, if they plan to abandon the pattern of organization built into the major by the requirements in existence in the department when they started, they should be prepared to explain what new set of ideas determines their selection of courses.

Students preparing to do graduate work in English are advised to get a firm grounding in literary criticism and the major writers and periods of English and American literature. They are also urged to take courses in a foreign literature and to develop at least a reading knowledge in two foreign languages.

For students preparing to teach in secondary school English 290, 297, and courses in English and American literary history, including the twentieth century, are recommended.

A student majoring in dramatic arts should elect in the first two years Dramatic Arts 101 and Visual Arts 101 and 212 (or Fine Arts 110). She is encouraged to choose courses in dance as part of her physical education program and to elect Dramatic Arts 250. For the major she is required to elect Dramatic Arts 221, 222, 224 (or 225), 230, and 300 and at least three courses from those in dramatic literature and the motion picture offered in classics, English, modern languages and literatures, visual arts, and world literature. During the senior year she should elect a course in independent work in which to carry out an integrative exercise combining theory and practice.

A student who is required to take a course in expository writing may fulfill the requirement by completing any Level I course in English except English 106.

100 **Exposition and Persuasion**

Practice in the fundamentals of good writing with particular emphasis on organization and structure. Open only to freshmen.

First semester. MEMBERS OF THE DEPARTMENT.

102 **Workshop in Expository Prose**

Supervision of individual writing projects. Concern with the individual student's problems in composition. Seminar discussions of student work. Open only to freshmen.

First semester. MR. SCRUTON.

103 **Identity and Expression**

The search for self as an approach to writing; writing as a means of self-discovery. Reading and writing of autobiographical fiction and essays. Special attention to the development of the essayist's analytical skills. Open only to freshmen.

First semester. MISS HOWE.

104 **Language, Vision, and Composition**

Learning to write by training the "I" to see. Language as a mediator between the private world of the individual and the public world in which he functions; language as it defines and is defined by the inner and outer worlds. Open only to freshmen.

Second semester. MISS BELFORD.

105 **Technical Writing**

Techniques of and practice in writing objective essays, reports, reasoned arguments, and articles based on experimentation and other forms of research. Open only to freshmen.

First semester. MISS CRADDOCK.

106 **Techniques of Creative Writing**

Beginning workshop in the writing of poetry, drama, and fiction. Open only to freshmen. Does not fulfill requirement for students advised to take a course in expository writing.

Second semester. MR. SCRUTON.

110 **Introduction to Poetry**

Reading, hearing, and interpreting poems. Close analysis of the technique and content of poems in various forms, styles, and periods. Critical and interpretive writing.

First semester. MEMBERS OF THE DEPARTMENT.

115 **The Elements of Fiction**

Close analysis of narrative techniques in selected short stories, short novels, and novels. Critical and interpretive writing. Open only to freshmen.

First semester. MRS. HESKY.

122 Shakespeare and the Forms of Drama

An introduction to drama through the works of Shakespeare and other playwrights, ancient and modern. Critical and interpretive writing.

Second semester. MR. SCRUTON.

130 Approaches to Literature: Image, Feeling, and Belief

The poetic process in theory and practice. Some attention to traditional forms. Emphasis on twentieth century "open" or "organic" poetry. Critical and interpretive writing. Open only to freshmen.

First semester. MISS HOWE.

131 Approaches to Literature: Souls in Crisis

Examination of selected works by poets in the throes of religious crises. Examples from Dickinson, Hopkins, Eliot, and Lowell. Critical and interpretive writing. Open only to freshmen.

First semester. MRS. LOTT.

132 Approaches to Literature: Reason and Imagination

An examination of Augustan and romantic voices, attitudes, and literary achievements through selected works of fiction, satire, and lyric poetry by Swift, Pope, Fielding, Blake, Wordsworth, Austen, Keats, Dickens, and others. Critical and interpretive writing. Not open to students who have completed English 130, 131, or 212. Not open to freshmen first semester.

First semester, repeated second semester. MR. SANDERS.

141 The Writer and the World: Joseph Conrad and Henry James

The works of Conrad and James examined as "symbolic action," that is, as responses and reactions to questions and problems posed by the times in which the writers lived or by human experience in general. Critical and interpretive writing. Open only to freshmen.

Second semester. MISS BELFORD.

142 The Writer and the World: John Donne

Examination of Donne's poetry and selected prose with emphasis on the artist's relationship to his particular "age of anxiety." Critical and interpretive writing. Open only to freshmen.

Second semester. MRS. LOTT.

200 The Writing of Fiction

Fictional techniques, with special attention to the short story. Supervision of individual short stories; seminar discussions of student work. English 106 or 115 (or 140) recommended as prerequisite.

First semester. MR. SCRUTON.

205 The Study of Poetry

Analysis of the various forms of English verse as a means of developing appreciation of the technical values of poetry. Practice in writing the forms of verse studied. Not open to freshmen.

Second semester. MISS deFORD.

208 Contemporary Prose

Practice in writing non-fictional prose. Examination of styles used in contemporary essays, articles, reviews, and reportage. Not open to freshmen.

Second semester. MEMBERS OF THE DEPARTMENT.

Not offered 1970-71.

210 The Study of Poetry Through the Teaching of Poetry

Undergraduates spend two hours a week teaching small groups of high school students in selected inner city schools. Weekly workshops to plan for and reflect on the teaching sessions. Students keep journal records of their classroom experiences and the development of their understanding of poetry. Prerequisite: a college course in poetry and permission of the instructor.

Second semester. MISS HOWE.

211 History of English Literature I

The literature of England from Chaucer to Milton. Literary forms and attitudes of the Middle Ages and the Renaissance. Prerequisite: junior standing or a college course in literature.

First semester. MISS CRADDOCK.

212 History of English Literature II

Directed reading in the literature of England from Dryden to Shaw. Literary forms and attitudes of the neoclassical, romantic, and Victorian periods. Prerequisite: major status in the department.

First semester, repeated second semester. MEMBERS OF THE DEPARTMENT.

228 Major American Writers

Directed reading of works by American authors from Franklin to Faulkner and of pertinent critical and background material. Prerequisite: major status in the department of English or American studies.

First semester, repeated second semester. MEMBERS OF THE DEPARTMENT.

232 Shakespeare

Topic for 1970-71: Shakespearean tragedy. Prerequisite: junior standing or a college course in literature.

First semester. MR. MUELLER.

240 Topics in English Literature, 1660-1800

Topic for 1970-71: life-writing in the age of Johnson. Autobiography, biography, the novel, and related prose forms; introspective and narrative poetry of private life. Authors such as Johnson, Boswell, Fielding, Richardson, Sterne, Gibbon, Goldsmith, Cowper, Crabbe, Gray, and Burns. Prerequisite: junior standing or a college course in literature.

First semester. MISS CRADDOCK.

245 Topics in Nineteenth Century English Literature

Topic for 1970-71: poetry and critical prose of major romantic and Victorian figures: Wordsworth, Coleridge, Keats, Shelley, Tennyson, Browning, Arnold, and others. Prerequisite: junior standing or a college course in literature. (Not open to students who have completed English 361 or 365.)

Second semester. MR. SANDERS.

250 Topics in American Literature to 1900

Topic for 1970-71: American romanticism. Emphasis on Poe, Hawthorne, Melville, Emerson, Thoreau, and Whitman. Prerequisite: junior standing or a college course in literature. (Not open to students who have completed English 213 or 218.)

First semester. MR. HEDGES.

260 Topics in Twentieth Century Literature

Topic for 1970-71: the Twenties in Britain and the United States. Social and cultural upheaval, impotence and despair in an age of literary experiment. Readings in Lawrence, Woolf, Joyce, Hemingway, Fitzgerald, Faulkner, Yeats, and Eliot. Prerequisite: junior standing or a college course in literature. (Not open to students who have completed English 271 or 385.)

First semester. MR. HEDGES, MISS HOWE.

265 English Drama Before 1800

Topic for 1970-71: Elizabethan and Jacobean drama. Themes, structures, and stagecraft in representative plays from the Age of Elizabeth to the Puritan Revolution. Prerequisite: junior standing or a college course in literature.

Second semester. MRS. HESKY.

270 Studies in the Novel

Topic for 1970-71: the range and variety of fictional form as seen through the study of major nineteenth century English and American examples. Definitions of fictional types by literary critics considered in relation to specific works by Austen, Thackeray, Dickens, Bronte, Eliot, Hawthorne, Melville, and James. Prerequisite: junior standing or a college course in literature. (Not open to students who have completed English 264.)

First semester. MR. SANDERS.

275 Twentieth Century Poetry

Topic for 1970-71: William Carlos Williams and American poetry since World War II. Roethke, Lowell, Ginsberg, Levertov, and others. Prerequisite: junior standing or a college course in literature.
Second semester. MISS HOWE.

281 Literature and Ideas

Topic for 1970-71: the novel as political statement. Political ideas and institutions, reform and revolution as concerns in selected British and American novels in the nineteenth and twentieth centuries. Prerequisite: junior standing or a college course in literature.
Second semester. MR. HEDGES, MISS HOWE.

290 The Theory and Practice of Literary Criticism

Literary genres and various schools of literary criticism. Practice in critical writing. Prerequisite: junior standing.
First semester. MR. MUELLER.

297 History and Structure of the English Language

Introduction to linguistic analysis and the relationship of English to Indo-European languages; study of the major recorded forms of English, with special regard to structure, changes of structure, and the processes of linguistic change. Prerequisite: junior standing. (Not open to students who have completed English 295.)
Second semester. MISS CRADDOCK.

301 Writing Workshop: Fiction

Supervision of individual creative projects. Weekly seminars. Prerequisite: English 200.
Second semester. MR. SCRUTON.

310 Writing Workshop: Poetry

Individual conferences and weekly seminar meetings devoted to experimental exercises and discussion. Prerequisite: English 205.
Second semester. MISS HOWE.

320 Chaucer

Chaucer's poetry, with special emphasis on *Troilus and Criseyde* and *The Canterbury Tales*. Relationship between Chaucer and the ideas of medieval England. Prerequisite: English 211.
Second semester. MISS deFORD.

323 The Forms of Poetry I: The Habit of Analogy

Evolution of the allegory, the symbolic poem, the lyric in the literature of Western Europe. Special emphasis on early English poems. Prerequisite: junior standing and a college course in poetry. Reading knowledge of French and Latin recommended.
Second semester. MISS deFORD.
 Not offered 1970-71.

324 The Forms of Poetry II: The Narrative Tradition in Epic and Romance

Special emphasis on *Beowulf*, *The Song of Roland*, and Arthurian Romance. Prerequisites: junior standing, and English 205 or 211. Reading knowledge of Latin, French, and German recommended.
Second semester. MISS deFORD.

335 Shakespeare and His Contemporaries

The English literary scene from 1590 to the death of Shakespeare. Readings in drama and nondramatic poetry. Prerequisite: English 211.
Second semester. MR. PEIRCE.
 Not offered 1970-71.

345 Milton

The poetry and prose of Milton. Prerequisite: English 211.
First semester. MISS deFORD.

SEMINARS IN ENGLISH AND AMERICAN LITERATURE

Offerings in 1970-71.

351 The Martyr

Poetic fictional and dramatic studies of saints, scapegoats, and assorted victims. Prerequisite: major status in the department.

First semester. MRS. HESKY.

356 Style and Statement in the Meditative English Lyric

Longer lyric poems exemplifying major poetic types and styles from the Renaissance to the twentieth century, including works by Donne, Milton, Vaughan, Marvell, Gray, Coleridge, Wordsworth, Keats, Hopkins, Yeats, Eliot, Auden, Stevens, Frost. Consideration of changes in poetic strategy accompanying a shift in emphasis from problems of religious faith to other fundamental human concerns. Prerequisite: major status in the department.

Second semester. MR. SANDERS.

362 Studies in Recent American Fiction

Emphasis on Ellison, Styron, Bellow, and Heller. Prerequisite: major status in the department.

First semester. MR. SCRUTON.

366 The Theory of Comedy

Emphasis on the relation of mode to meaning, genre to statement, and on the change in tone of the comic voice through history. Prerequisite: major status in the department.

Second semester. MISS BELFORD.

370 William Faulkner

Prerequisite: major status in the department.

First semester. MR. HEDGES.

375 Jane Austen and Henry James

Prerequisite: major status in the department.

Second semester. MISS CRADDOCK.

397 Integrative Study

Supervision of collective and individual studies and projects undertaken by students to give final form to the major.

Second semester. MEMBERS OF THE DEPARTMENT.

DRAMATIC ARTS

101 Introduction to Speech

The historical, physiological, and phonetic bases of speech. Intensive work in the improvement of individual speech and oral expression. Frequent conferences.

First semester, repeated second semester. MEMBERS OF THE DEPARTMENT.

200 Forms of Dramatic Writing

Practice in various kinds of dramatic writing. Recommended for drama majors but open to other students interested in writing. Prerequisite: a course in dramatic literature. Not open to freshmen.

Second semester. MR. DOWELL.

221 Acting

Character analysis. Visible and audible characterization. Some attention to directing. Opportunity for practical experience in campus productions. Field trips to the theatre. Prerequisite: Dramatic Arts 101.

First semester. MR. DOWELL.

222 Directing

Fundamentals of play direction. Script analysis, staging, and production design. Practical experience in acting and directing. Prerequisites: Dramatic Arts 101 and permission of the instructor.
First semester. MR. UMLAS.

224 Design

The designing of all visual elements of production: setting, lighting, costuming. Numerous design projects for specific plays. Prerequisite: Visual Arts 101 (or Fine Arts 110). Visual Arts 212 strongly recommended. (Not open to students who have completed Dramatic Arts 225.)
First semester. MR. UMLAS.

226 Experimental Acting Techniques

Intensive training in experimental approaches to acting. Work in exercise techniques, improvisation, and scene study, with special attention to voice and movement. Specific experimental methods designed to extend the range of the actor and offer practical approaches in confronting the problems of a script. Limited to twelve students. Prerequisite: permission of the instructor. Dramatic Arts 222 recommended.
Second semester. MR. UMLAS.

230 History of the Theatre

Important theatres and some examples of characteristic plays from the Greeks to the present. Not open to freshmen.
Second semester. MR. DOWELL.

250 Twentieth Century Dance and Its Relation to Other Modern Arts

Concepts, elements, styles, and forms of contemporary dance in relation to other twentieth-century arts. Historical development of twentieth-century dance with emphasis on Isadora Duncan, Ruth St. Denis, Ted Shawn, Charles Weidman, Doris Humphrey, Martha Graham, Merce Cunningham, Alwin Nikolais, Paul Taylor, the Judson Dance Group, and other contemporary dancers. Introduction to Labanotation, cinedance, and mixed media. Prerequisite: intermediate contemporary dance.
Second semester. MRS. BOND.
Not given 1970-71.

300 Seminar in the Theatre

Advanced experimental and laboratory work in the theatre; specific topic to be agreed on by students and instructor. Suggested topics for 1970-71: the "New Theatre"; the theatre of Brecht, Artaud, and Grotowski; the Asian theatre; masters of contemporary comedy; contemporary black playwrights. Prerequisite: major status in dramatic arts.
Second semester. MR. DOWELL.

HISTORY

RHODA MARY DORSEY, Ph.D., *Professor*
GEORGE A. FOOTE, Ph.D., *Professor; Chairman*
WILLIAM L. HEDGES, Ph.D., *Professor of English*
WILLIAM L. NEUMANN, Ph.D., *Professor*
KENNETH O. WALKER, Ph.D., *Professor*
R. KENT LANCASTER, Ph.D., *Assistant Professor*
JEAN HARVEY BAKER, A.M., *Instructor*
CHRISTINE DUNBAR SARBANES, M.A., *Lecturer*

Courses in the department of history are designed to aid the student in understanding the heritage of the past in its relation to the present. In addition, the department seeks to equip the student for duties as a citizen and to provide a knowledge of domestic and foreign affairs helpful in such fields as teaching, library work, journalism, law, and government.

The basic introductory course in the department is History 105, Communism and the Cold War. This course is designed to provide a knowledge and understanding of selected aspects of the contemporary world, to introduce the student to the problems of historical objectivity, to encourage independent investigation in the library, and to foster the writing of critical essays.

The offerings at Level II are of two kinds: those designed for all students who wish to pursue certain phases of the study of history beyond the introductory level (these may be elected by students of junior standing without further prerequisites) and those designed for the major or for the more specialized interests of particular subject matter areas. Courses at Level III are designed primarily for the major or for students prepared to do advanced work in allied fields. During the January term the department offers freshman seminars, special projects for majors in the field, and a variety of more general offerings for the non-major. A limited number of non-majors may elect to do independent work in history in the January term.

Students with high achievement in the College Board Placement Examination in American or European history may be exempted from an appropriate course with the approval of the chairman of the department. Exemption may also be obtained by passing an equivalent examination given by the department.

A student who expects to major in history should elect History 105, 240, and 261 by the end of her sophomore year. She should also elect History 200, 210, or 280, depending on her field of interest. Students majoring in history are expected to elect no more than eight semester courses in history during the junior and senior years. Since history majors ordinarily elect advanced courses in related fields, it is recommended that students planning to pursue a major in history elect historical background courses in other departments as well as introductory courses in economics, political science, and sociology and anthropology. Of the eight history courses normally elected in the last two years, at least three must be at Level III, including History 395, the integrative exercise for seniors.

All majors are encouraged to do independent work in history or related fields. Majors may elect independent work during the January term.

The history department collaborates with other departments in offering interdepartmental majors in international relations and in American studies.

History majors graduating in 1971 are expected to complete the major requirements specified in the April 1969 catalogue. Conflicts arising during the transitional year 1970-71 will be resolved by the chairman of the department.

105 Communism and the Cold War

Survey of the major encounters and diverse interpretations of the Cold War. An examination of the evolution of Communism since the Russian Revolution of 1917. Comparison and analysis of kinds of bias and of ways in which bias is expressed in historical writing. (Not open to students who have completed a college course in history.)
First semester, repeated second semester. MEMBERS OF THE DEPARTMENT.

200 Ancient Civilizations

Survey of ancient Near East and classical civilizations with special emphasis on Greece and Rome. Prerequisite: History 105 or junior standing. (Not open to students who have completed History 249.)
First semester. MR. FOOTE.

210 Medieval Civilization

The evolution of Western Europe from the end of the ancient period to the early Renaissance with consideration of Europe's interrelation with Islam and Byzantium. Prerequisite: History 105 (or 110) or junior standing.
First semester. MR. LANCASTER.

230 Science and the Western Tradition

The role of science in the development of the Western tradition. The development of science from ancient times to the twentieth century. Emphasis on the period since 1500. Prerequisite: History 105 or junior standing.
Second semester. MR. FOOTE.
Not offered 1970-71.

240 The Creation of the New European Order

Nationalism, industrialism, and socialism as revolutionary forces in nineteenth century Europe culminating in the first World War. Prerequisite: History 105.
Second semester. MR. WALKER.

242 The Age of the Renaissance and the Reformation

Fifteenth and sixteenth century Europe with special emphasis on political, social, and intellectual developments. Attention to varying interpretations of the period. Prerequisite: History 105 or junior standing.
Second semester. MR. FOOTE.

251 The Age of Revolutions, 1789–1850

The French Revolution and its influence on the political history of Europe in the first half of the nineteenth century. Prerequisite: History 240. (Not open to students who have had History 243 or 245.)
First semester. MR. WALKER.

253 The Hegemony of Europe, 1850–1914

The triumph of nationalism in Europe and the New Imperialism. Prerequisite: History 240.
First semester. MR. FOOTE.

255 Europe, The Tragic Years, 1914–1945

The dynamic role of the ideas of nationalism, liberalism, and democracy in twentieth century Europe and the confrontation offered by the totalitarian movements of Fascist Italy, Nazi Germany, and Communist Russia. Prerequisite: History 240, or 105 and junior standing. (Not open to students who have completed History 249.)
Second semester. MR. FOOTE.

257 Europe in Global Perspective, 1945–

Europe since 1945 with emphasis on the continuing influence of European ideas and institutions on Africa and Asia and the reactions of other peoples to these ideas and institutions. The decline of the political influence of Europe. Attempts at reconstruction and reform in Europe. Prerequisite: History 105 or junior standing. (Not open to students who have completed History 248 or History 250.)
First semester. MR. WALKER.

260 Colonial and Revolutionary America

Development of American political institutions and ideas in the seventeenth and eighteenth centuries with special emphasis on political structure and change in the Revolutionary period, 1763–1789. Prerequisite: History 105 (or 110) or junior standing.
First semester. MISS DORSEY.
 Not offered 1970–71.

261 Nationalism and Expansion in the United States

Survey of American political growth and territorial expansion from 1789 to 1900 with emphasis on the relationship between such developments and contemporary American political ideals. Prerequisite: History 105 (140 or 240 for students admitted prior to 1970).
Second semester. MRS. BAKER.

262 Idealism and Materialism in Twentieth Century America

Conflict and adjustment of traditional American concepts to an urbanized and mechanized society as seen in recent political, economic, and cultural developments. Prerequisite: History 105 or junior standing. Not open to students who have completed History 343.
First semester. MR. NEUMANN.

265 History of Minority Groups in American Life

A comparative study of three of America's minority groups – the American Indian, the Irish, and the Negro – with particular emphasis on attempts to integrate and assimilate these groups into American society. Prerequisite: History 261, or Sociology 245 and permission of the instructor.
First semester. MRS. BAKER.

280 The Far East in Modern Times

Political and diplomatic history of eastern Asia with particular emphasis on Japan and China in the nineteenth and twentieth centuries. Prerequisite: History 105 or junior standing.
First semester. MR. LANCASTER.

283 Chinese Cultural History

The evolution of traditional Chinese culture, ideological and institutional, to 1900. Interrelationship with other cultures. Prerequisite: junior standing.

First semester. MR. LANCASTER.

Not offered 1970-71.

285 The Asian Synthesis

Cultural history of Southeast Asia and Japan. The transformation of indigenous cultures under Chinese, Indian, and Western influence. Prerequisite: junior standing.

Second semester. MR. LANCASTER.

Not offered 1971-72.

303 Studies in Greek History

Selected topics in ancient Greek civilization. Prerequisite: History 200.

Second semester. MRS. SARBANES.

Not offered 1971-72.

305 Studies in Roman History

Selected topics in Roman history. Prerequisite: History 200.

Second semester. MRS. SARBANES.

Not offered 1970-71.

310 Medieval History

Selected topics in the history of Europe, Byzantium, and Islam from the eighth to the fifteenth century. Prerequisite: History 210.

Second semester. MR. LANCASTER.

334 Seminar in Modern European History

Intensive study of a decade in European history in the nineteenth or twentieth century with attention to historical sources and changing interpretations. For 1970-71: 1910-1920. Prerequisite: in 1970-71, permission of the instructor; after 1970-71, History 253 or 255.

Second semester. MR. WALKER.

342 Selected Problems in Early American History

An intensive study of a decade in American history before 1890 with attention to original sources and changing historical interpretations. For 1970-71: the Reconstruction Period. Prerequisite: History 261.

Second semester. MRS. BAKER.

343 Problems in Twentieth Century American History

Intensive study of a decade since 1890 with attention to sources and changing historical interpretations. For 1970-71: the 1890's. Prerequisite: History 261. Not open to students who have completed History 262.

First semester. MR. NEUMANN.

345 American Intellectual History

Selected topics in the history of American thought in the eighteenth and nineteenth centuries with attention to its relation to the social and cultural environment. Prerequisites: any two of the following: Economics 201; English 228, 250 (or 213 or 285); History 260, 261, 265 (or 264 or 266), 342; Philosophy 220.

Second semester. MR. HEDGES.

Not offered 1970-71.

350-351 Modern Diplomatic History

Selected readings in the origins, development, and efforts at settlement of the major British and American international conflicts in the nineteenth and twentieth centuries. Readings with emphasis on either American or British diplomatic history. Prerequisite: History 261 and a Level II course in nineteenth or twentieth century European history. (Not open to students who have completed History 247.)

First and second semesters. MR. NEUMANN.

355 Studies in Recent Far Eastern History

Topics in Chinese and Japanese history selected by students. Prerequisite: History 280, and 283 or 285.
Second semester. MR. LANCASTER.

395 Senior Seminar in History

Exploration of some continuing historical problems with particular emphasis on similarities and differences as they manifest themselves in time and space. Topic for 1970-71: revolutions. Required of senior majors. Open to others by permission.

Second semester. MR. FOOTE.

INTERNATIONAL RELATIONS

Departments of economics, history, political science, sociology and anthropology

KENNETH O. WALKER, Ph.D., *Professor of History, Chairman of the Interdepartmental Committee to Administer the Major*

The international relations major is offered to those students who desire to concentrate in the field of world affairs as preparation for possible active participation as a career, for understanding and effective action concerning world affairs as a responsible citizen in the community, or as a background for teaching or writing.

Students choosing this major will elect a minimum of ten semester courses selected from the list below. Of the ten required courses, three must be at Level III; and at least two of the disciplines composing the major must be represented in the three courses. One of these may be the integrative exercise offered as independent work to international relations majors the second semester of the senior year. In the January term majors may elect work related to or separate from international relations at their discretion. Competence in a modern foreign language is required. Courses are selected by the student in consultation with the chairman to fit the special purposes of the student. Independent work, such as reading in special fields, research, or internships, is encouraged.

For students expecting to major in the field, Political Science 150 is especially recommended. As prerequisites for advanced work in the various disciplines it is desirable to take the following courses in the first two years: Economics 100, 101, History 105, 240, and Political Science 121.

The integrative exercise required of majors is achieved through independent work. Each student studies a number of topics. Emphasis is placed on the contributions the various disciplines make to an understanding of the topic. Students are asked to compare and contrast the differing ways their topic manifests itself in time and space.

Requirements for majors graduating in 1971 are those specified in the catalogue for April 1969. Adjustments in the requirements during the transition period may be made with the approval of the chairman of the major.

A revised manual for guidance of the international relations majors is available for the first semester, 1970.

Economics 202 The Modern United States Economy in Historical Perspective

Second semester. MR. McLEWIN.

Economics 231 A Comparative Analysis of Economic Planning

First semester. MR. FARLEY.
 Not offered 1970-71.

Economics 271 International Economic Relations

Second semester. MR. FARLEY.

Economics 281 The Process of Economic Development

Second semester. MR. FARLEY.

Economics 381 Seminar in International Economics and Development*First semester.* MR. McLEWIN.**History 253 The Hegemony of Europe, 1850–1914***First semester.* MR. FOOTE.**History 255 Europe, The Tragic Years, 1914–1945***Second semester.* MR. FOOTE.**History 257 Europe in Global Perspective, 1945–***First semester.* MR. WALKER.**History 280 The Far East in Modern Times***First semester.* MR. LANCASTER.**History 285 The Asian Synthesis***Second semester.* MR. LANCASTER.

Not offered 1971–72.

History 334 Seminar in Modern European History*Second semester.* MR. WALKER.**History 350–351 Modern Diplomatic History***First and second semesters.* MR. NEUMANN.**History 355 Studies in Recent Far Eastern History***Second semester.* MR. LANCASTER.**Political Science 216 Seminar on Dynamics of National Security***First semester.* MR. HELFMAN.**Political Science 219 Political Culture***Second semester.* MISS GITHENS.**Political Science 226 Politics of Developing Societies***First semester.* MRS. ERMER.

Not offered 1970–71.

Political Science 253 International Law*First semester.* MR. CORRIN.

Not offered 1970–71.

Political Science 256 International Organization*Second semester.* MR. DOYLE.

Not offered after 1971–72.

Political Science 257 International Communications*Second semester.* MR. CORRIN.

Not offered 1970–71.

Political Science 316 Seminar in Selected Problems in International Relations*Second semester.* MR. CORRIN.

Not offered 1970–71.

Political Science 380 Seminar in Public Affairs*Second semester.* MR. MUNNS.**Sociology and Anthropology 210 Family and Kinship***First semester.* MRS. ROSSI.**Sociology and Anthropology 237 Contemporary Cultures of Latin America***Second semester.* MR. LEONS.**Sociology and Anthropology 247 Peasant Cultures***Second semester.* MR. LEONS.**MATHEMATICS**

DOROTHY L. BERNSTEIN, Ph.D., *Professor*
 GERALDINE A. COON, Ph.D., *Professor; Chairman*
 ELAINE KOPPELMAN, Ph.D., *Assistant Professor*
 MARTHA J. SIEGEL, Ph.D., *Assistant Professor*

Courses in the department of mathematics are designed to give the fundamental training necessary to prepare students to do graduate work in mathematics, to become teachers in the secondary schools, and to engage in applied mathematics in government and in industry. In addition, the courses in the department attempt to give all students some understanding of the nature of mathematics and its importance to the civilized world and to give students of the natural and social sciences the mathematical knowledge essential to those areas.

A major in mathematics consists of a minimum of nine courses at Levels II and III, including Mathematics 301, 321, and 395, the integrative exercise. One of the nine courses may be a designated January term course. With permission of the department, a senior may substitute Senior Thesis for one or two courses.

Students who plan to major in mathematics or in other subjects are invited to consult members of the department at any time about the courses in mathematics which will be of most value in their programs.

Topics from courses not offered in a particular year may be given in the January term as independent work provided staff are available.

105 Introduction to Statistics

Basic concepts of descriptive statistics; simple probability distributions; prediction of various population parameters from samples. Use of computer taught as integral part of the course. Prerequisite: three years of high school mathematics. Not open to students who have completed Mathematics 116 (or 112). Three hours lecture, one 75-minute laboratory.

First semester, repeated second semester. MEMBERS OF THE DEPARTMENT.

115 Mathematical Analysis I

Real number line and complex number system; elements of two and three-dimensional analytic geometry; basic properties and graphs of polynomials and rational, exponential, logarithmic and trigonometric functions; vectors and polar coordinates. Applications throughout; students encouraged to develop mathematical intuition and imagination. Prerequisite: three years of high school mathematics. (Not open to students who have completed Mathematics 109 or 110.) Four hours lecture.

First semester, repeated second semester. MEMBERS OF THE DEPARTMENT.

116 Mathematical Analysis II

Limits and continuity of functions of one variable; differentiation and integration of elementary functions: applications to physical and social sciences; infinite sequences and improper integrals; general properties of continuous and

differentiable functions. Emphasis throughout the course on the dual nature of mathematics as an abstract system of thought and as a powerful tool. Prerequisite: Mathematics 115 (or 109 or 112). (Not open to students who have completed Mathematics 113.) Four hours lecture.

First semester, repeated second semester. MEMBERS OF THE DEPARTMENT.

221 Linear Algebra

Vector spaces, linear equations and matrices, linear transformations, vectors in n -dimensions. Prerequisite: Mathematics 116 (or 113).

First semester. MISS COON.

222 Intermediate Calculus

Infinite series and linear differential equations; functions of several variables, partial derivatives, multiple integrals. Prerequisite: Mathematics 221.

Second semester. MISS BERNSTEIN.

231 Topics in Modern Geometry

Comparison of ancient and modern elementary geometry, projective geometry, and non-Euclidean geometries studied with varying emphasis. Prerequisite: Mathematics 116 (or 113).

First semester. MISS BERNSTEIN.

241 Mathematical Probability and Statistics I

Probability axioms, finite probability spaces, random variables; special distributions, such as binomial, Poisson, hypergeometric, normal, and Gamma; use of generating functions and limit theorems. Prerequisite: Mathematics 222 (or concurrent registration).

First semester. MRS. SIEGEL.

242 Mathematical Probability and Statistics II

Elements of descriptive statistics, correlation, hypothesis testing, estimation, non-parametric tests, regression analysis and analysis of variance, Markov chains; further work in infinite probability spaces. Prerequisite: Mathematics 241.

Second semester. MRS. SIEGEL.

245 Elements of Numerical Analysis

Mathematical theory underlying numerical solution of basic problems such as systems of linear equations, roots of non-linear equations, interpolation and quadrature, differential equations. Theory illustrated by writing programs for IBM 1130. Prerequisites: Mathematics 222 (or concurrent registration) and some knowledge of FORTRAN.

Second semester. MISS COON.

301 Fundamentals of Real Analysis I

Basic set topology of Euclidean n -dimensional space and generalization to normed vector spaces and metric spaces; fundamental properties of functions from E_n to E_m , including rigorous treatment of limits, continuity, differentiation, and series. Prerequisites: Mathematics 222 and 321.

Second semester. MISS COON.

302 Fundamentals of Real Analysis II

Continuous transformations, implicit functions, functional dependence, integration for vector-valued functions of several variables. Prerequisite: Mathematics 301.

First semester. MISS BERNSTEIN.

303 Fundamentals of Complex Analysis

Classical theory of analytic and meromorphic functions; Cauchy-Riemann equations, complex integration, Laurent series, poles and residues, contour integration. Prerequisite: Mathematics 301.

First semester. MISS COON.

Not offered 1970-71.

312 Differential Equations

Generation of first and second order equations in applied mathematics; solution of linear equations of any order and of systems of linear equations; fundamental existence theorems and algorithms for non-linear equations. Prerequisite:

Mathematics 301 (or concurrent registration).
Second semester. MISS BERNSTEIN.

321 Elements of Modern Algebra I

Abstract algebraic systems, including groups, fields, and rings. Prerequisite: Mathematics 221.
First semester. MISS KOPPELMAN.

322 Elements of Modern Algebra II

Special topics such as lattices, ideal theory, Boolean algebra, and Galois theory. Prerequisite: Mathematics 321.
Second semester. MISS KOPPELMAN.

346 Advanced Numerical Analysis

Introduction to the theory of approximations and interpolation with applications to numerical solution of specific problems in algebra and analysis. Prerequisites: Mathematics 245 and 301.
First semester. MISS COON.
 Not offered 1970-71.

350 Elements of Topology

Topological spaces, continuous mappings and homeomorphisms, function spaces, introduction to algebraic topology.
 Prerequisite: Mathematics 301.
First semester. MRS. SIEGEL.
 Not offered 1970-71.

360 Historical Roots of Modern Mathematics

Examination of the work in algebra, analysis, and geometry in the nineteenth century which led to the emergence of modern concepts in the foundations of mathematics. Prerequisite: Mathematics 321.
Second semester. MISS KOPPELMAN.
 Not offered 1970-71.

395 Senior Seminar

Variation in topics from year to year. Topics chosen to give students an integrative experience in mathematics.
 Required of senior majors.
Second semester. MISS BERNSTEIN.

MODERN LANGUAGES AND LITERATURES

FREDERIC O. MUSSER, Jr., Ph.D., *Professor of French*
 WOLFGANG E. THORMANN, Ph.D., *Professor of French; Chairman*
 SERGIO A. RIGOL, Dr. en Letras, *Associate Professor of Spanish*
 JOHN K. DONALDSON, Jr., A.M., *Assistant Professor of French*
 SIBYLLE EHRLICH, A.M., *Assistant Professor of German*
 DORA HENRIETTE HORCHLER, Ph.D., *Assistant Professor of French*
 HERTHA KROTKOFF, Dr. rer. com., *Assistant Professor of German*
 RUDY JOHN LENTULAY, A.B., *Assistant Professor of Russian*
 GENEVIÈVE MARÉCHAUX, Licence-ès-lettres, *Assistant Professor of French*
 ADRIAN GARCIA MONTORO, Dr. en Letras, *Assistant Professor of Spanish*
 VLADA TOLLEY, A.M., *Assistant Professor of Russian*
 LILIANE KREBS DAN, A.M., *Instructor in French*
 CHANTAL DUBOURG, Licence-ès-lettres, *Lecturer in French*

The courses offered in the department of modern languages and literatures aim (1) to impart the ability to speak, understand, read, and write a foreign language, not only for the satisfaction of acquiring a new skill but also for practical use as a tool in the study of the foreign literature itself and other fields to which contributions have been made in the foreign language; and (2) to offer through the use of the acquired language skills a firsthand acquaintance

with a great modern literature of the Western heritage and other aspects of a foreign culture which will broaden the students' horizons and help them to view their own culture more objectively.

Placement tests are taken by all students desiring to continue a language they have offered for entrance. Students who are natives of French, German, or Spanish-speaking countries, or who speak those languages fluently, should consult with the department before electing courses.

A language laboratory with listening and recording facilities for group or individual use is an integral part of the beginning and intermediate courses. The integration of foreign language study with laboratory work provides students an opportunity to utilize the latest techniques and equipment in pursuing the study of the language of their choice.

The French House (the first floor of Probst House in Dorothy Stimson Hall) is a residence where students majoring in French and those proficient in the language but majoring in other areas may develop more facility in spoken French than is possible through classroom or laboratory experience.

THE MAJOR

A student majoring in one of the modern languages is expected to read and write as well as speak the language accurately and fluently. In the literature, the student is expected to have a knowledge of the main facts of its development, with its historical and social background, and to demonstrate ability for critical appreciation.

Major students are required to complete eight courses at Levels II and III.

In French, each major student elects to follow one of two tracks. Track I puts primary emphasis on the study of French literature (without neglecting the language skills) and is particularly recommended for students intending to pursue graduate studies in French. Track II puts primary emphasis on the perfecting of language skills (without neglecting the study of literature) and is particularly recommended for students planning to teach French on the secondary school level. Other students may elect either track in accordance with their primary interests. Specific course requirements for Track I are French 235, 300, 301, 395, one of the following: French 320, 330, 340, and one of the following: French 220, 310, 345. Specific course requirements for Track II are 230, 235, 240, 335, one of the following: 220, 330, 340, and one of the following: 300, 301, 345.

Specific course requirements for students majoring in German are German 231, 235, and 395; of students majoring in Russian, Russian 231, 235, 395, and History 105; of students majoring in Spanish, Spanish 230, 240, and 395.

Track I and Track II French majors fulfill the requirement for integrative study by completing French 395 and 335 respectively; majors in the other languages take German 395, Russian 395, or Spanish 395.

Students planning to do graduate work should confer with their advisers about requirements in German, Latin, or French.

Independent work in a field of special interest may be elected by qualified students.

FRENCH

110 Elementary French

Designed to give the student a firm foundation in the language. Includes grammar, vocabulary, and composition, with special stress on the development of reading ability and oral command of the language. Four class hours, one hour laboratory. (Not open to students who have completed French 100 or 101.)

First semester. MEMBERS OF THE DEPARTMENT.

120 Intermediate French

A continuation of previous elementary work with abundant oral and aural practice. Grammar, vocabulary, reading, discussion, writing of simple compositions. Prerequisite: French 110 (or 101). Four class hours, one hour laboratory. (Not open to students who have completed French 102.)

First semester, repeated second semester. MEMBERS OF THE DEPARTMENT.

130 Intermediate French

Continuation and review of the fundamentals of grammar; reading and discussion of selected works. Prerequisite: French 120 (or 102). Four class hours, one hour laboratory. (Not open to students who have completed French 103.)

First semester, repeated second semester. MEMBERS OF THE DEPARTMENT.

200 Introduction to French Literature

Designed to acquaint the student with aspects of French literature from the Renaissance to the present. Historical, social, and cultural backgrounds. Critical reading of major texts; emphasis on a method of *explication de texte*. Prerequisite: French 130 (or 103), or placement.

First semester, repeated second semester. MISS HORCHLER, MR. MUSSER, MR. THORMANN.

201 French Literary Forms

Typical French literary attitudes and the form given them by different authors using a variety of genres, styles, and techniques. Designed for students who have had training in French literature in secondary school. Prerequisite: placement. Not open to students who have completed French 200.

First semester. MR. DONALDSON.

210 French Romantic Literature

The flowering of romanticism and the beginnings of realism. The novel (Chateaubriand, Stendhal), poetry (Lamartine, Hugo, Vigny, Musset), and the romantic theatre (Hugo, Vigny, Musset). Prerequisite: French 200 or 201.

First semester, repeated second semester. MISS HORCHLER, MR. MUSSER, MR. THORMANN.

220 French Realism and Naturalism

The realist novel of Balzac and Flaubert. The Parnassian poets and the realistic problem play. Aesthetics of naturalism in the works of Zola and Maupassant. Relation of the literature to the political and social backgrounds of the period. Prerequisite: French 210.

Second semester. MR. DONALDSON.

230 Oral Composition

Discussion of current topics based on readings assigned in advance. Special attention to the acquisition and active use of pertinent vocabulary. Prerequisite: French 130 (or 103).

First semester, repeated second semester. MISS HORCHLER, MISS MARÉCHAUX.

235 Written Composition

A review of the basic sentence patterns of French with emphasis on the problems they raise for users of the English language. Writing of exercises and compositions. Prerequisite: French 130 (or 103).

First semester, repeated second semester. MISS HORCHLER, MISS MARÉCHAUX.

240 Phonology and Phonetics

The sound system of French; elements of articulatory phonetics. Exercises in reading and speech, with attention to pronunciation, accent, rhythm, and intonation. Designed primarily for Track II French majors. Prerequisite: French 130 (or 103).

Second semester. MISS MARÉCHAUX.

Not offered 1971–72.

300 The Spirit of French Classicism

Development and character of French classicism. The philosophy of Descartes and Pascal, the letters of Mme de Sévigné, the tragedy of Corneille and Racine. Prerequisite: French 210.

First semester. MR. MUSSER.

Not offered 1971–72.

301 The Flowering of French Classicism

The comedy of Molière. The poetry of La Fontaine, the novel of Mme de Lafayette. Analysis of man and society in selections from the great prose writers, La Rochefoucauld, Bossuet, La Bruyère, Fénelon, Saint-Simon. Prerequisite: French 210.

Second semester. MR. THORMANN.

Not offered 1971–72.

310 Literature of the French Enlightenment

Emphasis on the novel and theatre as seen against the background of the Age of Enlightenment. The comedy of Marivaux and Beaumarchais. The novel of Voltaire, Prévost, Rousseau, and Laclos. The poetry of Chénier. The thought of Montesquieu, Diderot, and others. Prerequisite: French 210.

First semester. MR. DONALDSON.
Not offered 1970-71.

320 Contemporary French Novel

A study of the novel from Proust and Gide to the present. Includes works of Mauriac, Malraux, Montherlant, Sartre, Camus, Robbe-Grillet, Butor. Prerequisite: French 210.

First semester. MR. THORMANN.
Not offered 1971-72.

330 Contemporary French Theatre

A study of the leading dramatists with emphasis on Cocteau, Giraudoux, Montherlant, Anouilh, and Camus. The existential drama of Sartre. The Theatre of the Absurd of Ionesco and Beckett. Prerequisite: French 210.

First semester. MR. THORMANN.
Not offered 1970-71.

335 Language in Action

Transformation of the basic sentence patterns of French into more complex sentences. Analysis of vocabulary and syntax and their effects in samples of writings taken from newspapers, advertisements, novels, and plays. Prerequisite: French 235. Required of Track II French majors.

First semester. MISS MARÉCHAU.

340 Modern French Poetry

The development of French poetry, beginning with nineteenth-century Symbolism. Works of Baudelaire, Rimbaud, Mallarmé, Apollinaire, Valéry, the Dadaists, the Surrealists, and contemporary independent poets. Prerequisite: French 210.

First semester. MR. MUSSER.
Not offered 1970-71.

345 Contemporary France

Intellectual, social, and political developments in France since World War II. Integration of literary and artistic expressions of French civilization with historical events. Prerequisites: French 230 and 235.

Second semester. MR. THORMANN.
Not offered 1970-71.

395 Seminar

Required of Track I French majors in the senior year. Other seniors admitted by permission of the instructor.

Second semester. MR. DONALDSON, MISS HORCHLER.

GERMAN

110 Elementary German

Designed to give the student a firm foundation in the language. Grammar, vocabulary, composition, and oral practice. Four class hours, one hour laboratory. (Not open to students who have completed German 100 or 101.)

First semester. MEMBERS OF THE DEPARTMENT.

120 Intermediate German

A review of the fundamentals of grammar. Reading of literary texts and other material providing a general background of German culture. Emphasis on vocabulary acquisition. Abundant oral and aural work. Prerequisite: German 110 (or 101). Four class hours, one hour laboratory. (Not open to students who have completed German 102.)

Second semester. MEMBERS OF THE DEPARTMENT.

130 Intermediate German

Reading of modern literary texts of increasing difficulty. Review of the fundamentals of grammar, with emphasis on the more difficult aspects, vocabulary building, and active use of the language. Prerequisite: German 120 (or 102). Four class hours, one hour laboratory. (Not open to students who have completed German 103.)

First semester. MEMBERS OF THE DEPARTMENT.

201 Introduction to German Literature

Designed to acquaint the student with important periods of German literature from the sixteenth century to the present. Historical, social, and cultural backgrounds. Critical reading of major texts. Prerequisite: German 130 (or 103).

Second semester. MRS. EHRLICH.

211 The German Novelle

The *Novelle* as a literary genre in the nineteenth and twentieth centuries. Readings include Kleist, Eichendorff, Stifter, Meyer, Mann, Kafka. Prerequisite: German 201.

First semester. MRS. EHRLICH.

231 Oral Composition

Discussion of topics assigned in advance. Special attention to the acquisition and active use of a flexible vocabulary. Prerequisite: German 130 (or 103).

Second semester. MRS. EHRLICH.

235 Written Composition

Writing of compositions and study of special problems in grammar, stressing word formation and syntax. Prerequisite: German 130 (or 103).

First semester. MRS. KROTKOFF.

245 German Drama of the Nineteenth and Twentieth Centuries

Representative plays of the nineteenth and twentieth centuries, including works by Kleist, Grillparzer, Hauptmann, Kaiser, Dürrenmatt. Changing theoretical concepts in the German theatre. Prerequisite: German 201.

Second semester. MRS. KROTKOFF.

301 Literature of the Eighteenth Century

Enlightenment, *Empfindsamkeit*, and Storm and Stress as reflected in selections from such authors as Lessing, Klopstock, Herder. Prerequisite: German 211 or 245.

First semester. MRS. KROTKOFF.

330 German Poetry of the Nineteenth and Twentieth Centuries

The development of German poetry through works of Hölderlin, Mörike, Heine, Eichendorff, Rilke, Trakl, Bachmann, and others. Prerequisite: German 211 or 245.

First semester. MRS. EHRLICH.

Not offered 1970-71.

340 German Novel of the Nineteenth and Twentieth Centuries

Analysis of novels of Fontane, Mann, Kafka, Musil, Hesse. Prerequisite: German 211 or 245.

First semester. MRS. EHRLICH.

Not offered 1971-72.

351 Goethe

Selected readings of Goethe, with special emphasis on *Faust*. Prerequisite: German 211 or 245.

Second semester. MRS. KROTKOFF.

395 Seminar

Required of major students in the senior year. Other seniors admitted by permission of the instructor.

Second semester. MRS. KROTKOFF.

RUSSIAN**110 Elementary Russian**

Intensive work, designed to give the student a firm foundation in the language, with special stress on reading ability and oral work. Four class hours, one hour laboratory. (Not open to students who have completed Russian 100 or 101.)

First semester. MR. LENTULAY.

120, Intermediate Russian

130

Abundant oral work; grammar; emphasis on proficiency in reading and writing. Prerequisite for Russian 120, Russian 110 (or 101); for Russian 130, Russian 120 (or 102). Four class hours, one hour laboratory. (Russian 120 not open to students who have completed 102; 130 not open to students who have completed 103.)
Russian 120, second semester; 130, first semester. MR. LENTULAY.

201 Introduction to Russian Literature

An introduction to the important periods of Russian literature. Critical readings in works chosen from the nineteenth and twentieth centuries. Prerequisite: Russian 130 (or 103).
Second semester. MR. LENTULAY, MRS. TOLLEY.

210 Púshkin

Púshkin's life and work in their literary and political contexts. Prerequisite: Russian 201.
First semester. MRS. TOLLEY.

231 Oral Composition

Discussion of topics assigned in advance. Use of idiomatic expressions. Prerequisite: Russian 130 (or 103). Four class hours.
Second semester. MRS. TOLLEY.

235 Written Composition

Writing of compositions and study of special problems in grammar. Prerequisite: Russian 130 (or 103).
First semester. MRS. TOLLEY.

301 Russian Novelists of the Nineteenth Century

The development of the novel in Russian literature. Major masters of nineteenth-century fiction, excluding Púshkin, Dostoévsky, and Tolstóy. Critical study of works by Karamzín, Lérmontov, Gógol, Turgénev, Leskóv, and Saltykóv-Schedrín. Prerequisite: Russian 210.
First semester. MRS. TOLLEY.
Not offered 1971-72.

303 Tolstóy

Tolstóy's literary and ideological development. Selected readings from *War and Peace*, *Anna Karénina*, and other works. Prerequisite: Russian 210.
First semester. MR. LENTULAY.
Not offered 1971-72.

305 Dostoévsky

Critical study of Dostoévsky's method; selected readings from *Crime and Punishment*, *The Possessed*, and *The Brothers Karamázov*. Prerequisite: Russian 210.
Second semester. MR. LENTULAY.
Not offered 1971-72.

312 Chékhov

Chékhov's short stories and plays studied against the social, political, and philosophic background of his time. Selected short stories and the major plays: *Three Sisters* and *The Cherry Orchard*. Prerequisite: Russian 210.
Second semester. MRS. TOLLEY.
Not offered 1970-71.

321 Nineteenth Century Criticism

The leading nineteenth century critics, "the unofficial censors," and their influence in shaping the course of Russian literature. Prerequisites: Russian 201, 231 (or 230), 235.
Second semester. MR. LENTULAY.
Not offered 1970-71.

331 Soviet Literature

Development of Russian literature since the Revolution. Readings from Pasternák, Shólokhov, A. N. Tolstóy, Mayakóvsky, Górký, Blók, Esénin, Leónov, and others. Prerequisite: Russian 210.

First semester. MRS. TOLLEY.

Not offered 1970-71.

395 Seminar

Required of senior majors. Other seniors admitted by permission of the instructor.

Second semester. MRS. TOLLEY.

SPANISH**110 Elementary Spanish**

Intended to provide the student with a firm foundation in oral and written Spanish. Audio-lingual presentation of material continuing through the course, with increasing attention to grammar and composition. Four class hours, one hour laboratory. (Not open to students who have completed Spanish 100 or 101.)

First semester. MEMBERS OF THE DEPARTMENT.

120 Intermediate Spanish

Oral and written work, vocabulary acquisition, review of the fundamentals of grammar. Increasing emphasis on written composition. Four class hours, one hour laboratory. Prerequisite: Spanish 110 (or 101). (Not open to students who have completed Spanish 102.)

First semester, repeated second semester. MEMBERS OF THE DEPARTMENT.

130 Intermediate Spanish

Continued review of grammatical structure. Oral and written composition. Selected readings from Spanish and Spanish-American authors. Four class hours, one hour laboratory. Prerequisite: Spanish 120 (or 102). (Not open to students who have completed Spanish 103.)

First semester, repeated second semester. MEMBERS OF THE DEPARTMENT.

230 Oral and Written Composition

A first approach to literature in Spanish. Reading and discussion of excerpts from modern Spanish and Spanish-American authors, stressing linguistic and structural aspects. Prerequisite: Spanish 130 (or 103) or placement.

Second semester. MR. MONTORO.

240 Introduction to Hispanic Literature

Selected works from nineteenth and twentieth century Spanish and Spanish-American authors. Stress on the development of the genres represented. Prerequisite: Spanish 230 or placement. (Not open to students who have completed Spanish 211.)

First semester. MR. RIGOL.

245 The Contemporary Novel of Spain

Main trends in the Peninsular novel from the Romantics to the present. Prerequisite: Spanish 240 (or 211).

First semester. MR. MONTORO.

Not offered 1970-71.

250 The Contemporary Novel of Spanish America

Trends in the Spanish-American novel from the beginning of the *Modernista* movement to the present. Prerequisite: Spanish 240 (or 211).

Second semester. MR. MONTORO.

Not offered 1971-72.

305 Literature of Spain in the Middle Ages and the Renaissance

Selected topics of the main currents and genres of Peninsular literature from the twelfth to the fifteenth century. Prerequisite: Spanish 240 (or 211).

First semester. MR. MONTORO.

Not offered 1971-72.

310 Classical Prose Fiction

The Hispanic origins of the modern European novel. *La Celestina* and the Picaresque tradition from the *Lazarillo* to the *El Buscón*. Prerequisite: Spanish 240 (or 211).

Second semester. MR. RIGOL.

Not offered 1970–71.

320 Cervantes

Major aspects of Cervantine prose fiction: *Don Quijote* and the *Novelas Ejemplares*. Prerequisite: Spanish 240 (or 211).

First semester. MR. MONTORO.

Not offered 1970–71.

325 Classical Poetry and Drama

The lyrical and the dramatic poetry of the Golden Age: a study of the major poets (from Garcilaso to Quevedo) and the major dramatists (Lope and his school; Calderon and his followers). Prerequisite: Spanish 240 (or 211).

Second semester. MR. RIGOL.

Not offered 1971–72.

340 The Contemporary Poetry and Drama of Spain

Main trends in the Peninsular poetry from Becquer to the present. The development of the Peninsular theatre from the Romantics to the present. Prerequisite: Spanish 240 (or 211).

Second semester. MR. RIGOL.

345 Spanish-American Literature Before Modernismo

The main trends and genres of Spanish-American literature from the Chroniclers of the Conquest to the beginning of the *Modernista* movement (1888). Prerequisite: Spanish 240 (or 211).

First semester. MR. MONTORO.

Not offered 1971–72.

360 Modernismo and Post-Modernismo

Poetry, drama, and essay in Spanish-American literature from Rubén Darío's *Azul* . . . (1888) to the present. Prerequisite: Spanish 240 (or 211).

Second semester. MR. RIGOL.

Not offered 1970–71.

395 Seminar

Required of Spanish majors. Other seniors admitted by permission.

Second semester. MR. MONTORO, MR. RIGOL.

MUSIC

ELLIOTT W. GALKIN, Ph.D., *Professor; Chairman*

ROBERT HALL LEWIS, Ph.D., *Professor*

DANIEL ABRAMS, *Associate Professor*

GEORGE WOODHEAD, M.Mus., *Associate Professor*

ELISABETH KATZENELLENBOGEN, *Adjunct Professor of Applied Music (Piano)*

AGI RADO, *Lecturer in Applied Music (Piano)*

BONNIE J. LAKE, B.M., *Associate in Applied Music (Flute)*

WILLIAM FRED MARTIN, *Associate in Applied Music (Violin)*

ISADOR SASLAV, D.Mus., *Associate in Applied Music (Violin)*

WALLACE TORONI, *Associate in Applied Music (Cello)*

FLORE WEND, *Associate in Applied Music (Voice)*

Instruction is available to students who have a general interest in music and to those who anticipate graduate or professional study. The offerings of the department are designed to enable students to acquire a balance of harmonic and

structural study, historical and analytical information, and interpretative and performing experience. Courses are given at various levels in each of these divisions of study. Student participation in performance is encouraged through student recitals, the Chapel Choir, the Glee Club, and the Goucher-Hopkins Symphony Orchestra; membership in the Johns Hopkins University Band is also open to Goucher students. The collection of recordings and scores and the listening rooms in the library provide opportunity for direct study and analysis of music. Arrangements with the Peabody Conservatory may be made for those students who require courses more specialized than those offered at the College.

APPLIED MUSIC

Instruction in flute, harp, harpsichord, horn, organ, piano, viola, violin, voice, and the performance of chamber music is available at the College to all students. Study of other instruments may be arranged by permission of the chairman of the department. By passing an examination, students other than freshmen may qualify to study for credit toward the degree. Students at all levels of advancement are accepted for study of applied music on a noncredit basis.

Music majors may earn credit in the amount of one course or two courses per year for work in applied music; non-music majors may earn one course, provided they are enrolled in a course in the department at least one term of the same year. The allocation of credit is dependent on the intensity and scope of accomplishment and is determined by the chairman of the department in consultation with the instructor.

THE MAJOR

Students contemplating a major in music should elect in the first two years Music 105, 110, and 150 and study in applied music; proficiency at the keyboard is required. Examinations for advanced placement may be arranged through the chairman of the department.

The student primarily interested in theory and composition should elect Music 250, 350; 255, 355; 398. She should choose two courses in the history of music series 240, 243; 246, 345. If her concentration is in the history of music, she should select 240, 243, 246, 345, 397; either 250, 350, or 255, 355, and at least one year of applied music. To fulfill the requirements for a major in performance, the student should elect applied music in both the junior and senior years, three Level II and III courses in the history of music, and either the sequence 250, 350; or 255, 355. A student majoring in applied music may complete a half-course by presenting a recital which reflects outstanding talent and accomplishment.

For those students majoring in theory who are graduating in 1971, the combination of Music 210, 310 may be substituted for 240, 243; similarly, for those students majoring in the history of music, who are graduating in 1971, Music 210, 310 may be substituted for 240, 243.

100 Introduction to Music

Designed to provide information for the basic understanding and enjoyment of music. The elements from which music is built; the forms in which it is most frequently heard; the means by which it is produced. This course is intended for students who have had no formal instruction in music.

Second semester. MR. WOODHEAD. Also offered at The Johns Hopkins University first semester, September 14–December 18, 1970. MR. ABRAMS.

105 Collegium Musicum

Intensive study of basic rudiments of music, involving keyboard performance, sight-singing, and ear-training, through selected works significant in music history. Required of music majors. Three hours per week, continuing through two semesters.

First and second semesters. MR. GALKIN, MR. WOODHEAD. Four semester hours for the year.

110, History of Musical Styles

Origins, evolution, and development of musical styles from their beginnings to the present. (Music 110, to 1685; Music 111, from 1685 to the present.) Emphasis on specific works representative of the principal styles. Study of various styles through singing and performing selected compositions. Prerequisite: ability to read music; Music 110 prerequisite to Music 111.

Music 110 first semester; Music 111 second semester. MR. GALKIN.

150, The Theory of Harmony

151 An intensive study of the basic materials of tonal harmony through analysis and written exercises. Laboratory stressing practical aspects of musicianship. Prerequisite: ability to read music; Music 150 prerequisite to Music 151. *Music 150 first semester; 151 second semester.* MR. LEWIS.

200 The Great Tradition in Music

A study of a single musical masterpiece as representative and reflective of an entire artistic period. Lectures in the history, art, literature, and philosophy of the period describing the social and intellectual climate of the time. Reading in related fields. Work to be studied 1970–71: Bach's *Mass in B minor*. Prerequisite: one of the following: Music 100, 110, 150. May be re-elected. *First semester.* MR. GALKIN.

216 The Heritage of American Music

Music in America from the Pilgrims to the present day, with special emphasis on the last fifty years. Prerequisite: one of the following: Music 100, 110, 150. *Offered at The Johns Hopkins University first semester, September 14–December 18, 1970.* MR. GALKIN.

220 The Minorities and Music in America

The musical role of minority groups in American culture, their aspirations and accomplishments, with special emphasis on contributions during the last fifty years. Sociology, history, and religious activities of such groups, and their possible implications in the development of musical expression in the United States. Prerequisite: one of the following: Music 100, 110, 150. *First semester.* MR. GALKIN.
Not offered 1970–71.

225 Music in the Socialist World

Musical composition and the evolution of musical styles, particularly during the last fifty years in Russia, Czechoslovakia, Romania, Yugoslavia, Hungary, and Poland. Prerequisite: one of the following: Music 100, 110, 150. *Second semester.* MR. LEWIS.
Not offered 1970–71.

230 The Orchestra and the Conductor

Performance technique of the conductor and the composition of the orchestra. Exercises in instrumentation. Prerequisites: Music 110, 150. *Second semester.* MR. GALKIN.
Not offered 1970–71.

240 The Flowering of Polyphony

Background of the Christian chant, its history, rhythm, forms, and modes; and the development of monody and polyphony from the ninth century through the Renaissance. Reading knowledge of French or German recommended. Prerequisites: Music 110, 150. *First semester.* MR. GALKIN.
Not offered 1970–71.

243 Baroque and Classical Music

The emergence of musical styles from Monteverdi through Mozart. Reading knowledge of French or German recommended. Prerequisite: Music 240. *Second semester.* MR. GALKIN.
Not offered 1970–71.

246 Music in the Romantic Era

Romanticism as an artistic attitude; its specific musical manifestations from 1789 to 1914. Reading knowledge of French or German recommended. Prerequisite: Music 240 (or 310). *Second semester.* MR. ABRAMS.
Not offered 1971–72.

250 Sixteenth Century Counterpoint

First of two courses in the great contrapuntal periods. Analysis of selected works; exercises in writing in the style of the period. Prerequisite: Music 150.

First semester. MR. LEWIS.

Not offered 1970-71.

255 Harmonic Practice from 1750 to 1827

First of two courses involving the expansion of harmonic resources in the classic and romantic periods. Analysis of selected works; exercises in the writing of the style of the period. Prerequisite: Music 150.

First semester. MR. LEWIS.

Not offered 1971-72.

297 Composition I

Creative work for instrumental or vocal media, utilizing contemporary musical materials. Analysis of selected scores. Prerequisite: Music 151.

Half-course. *First semester.* MR. LEWIS.

Not offered 1970-71.

298 Composition II

Continuation of Music 297. Opportunities for reading-performance by musical organizations of the College. Prerequisite: Music 297.

Half-course. *Second semester.* MR. LEWIS.

Not offered 1970-71.

330 Principles of Form

Basic principles of musical construction as seen through examination and analysis of representative forms from the Baroque era to the present. Prerequisite: one of the following: Music 151, 250, 255.

First semester. MR. LEWIS.

Not offered 1970-71.

345 Music of the Twentieth Century

Principal trends and representative works of the twentieth century. Some attention to serial, aleatory, and electronic procedures. Prerequisite: Music 246 (or 215).

First semester. MR. LEWIS.

350 Eighteenth Century Counterpoint

Continuation of Music 250. Prerequisite: Music 250.

Second semester. MR. LEWIS.

Not offered 1970-71.

355 Harmonic Practice from 1827 to 1890

Continuation of Music 255. Prerequisite: Music 255.

Second semester. MR. LEWIS.

Not offered 1971-72.

397 Special Problems in Music History

Prerequisites: Music 225 (or 210, 310).

Second semester. MR. GALKIN.

398 Special Problems in Theory and Composition

Prerequisite: Music 350 or 355.

Second semester. MR. LEWIS.

PHILOSOPHY

MARY CARMAN ROSE, Ph.D., *Professor; Chairman*
EVA REINITZ GOSSMAN, Ph.D., *Associate Professor*
JOSEPH E. MARTIRE, B.S., *Assistant Professor*
JOSEPH MORTON, Ph.D., *Assistant Professor*

The major in philosophy is planned to meet the interests and the aims of the individual student. The major may center around a specialty selected by the student. Suggested specialties are philosophy of science; political philosophy; aesthetics; philosophy of religion; and Greek, medieval, and modern philosophy. The major consists of Philosophy 150 or 160, 175, and eight courses of Levels II and III. These eight must include Philosophy 260, 311, 312, and 321–322, the integrative experience for all majors. Some of these eight may be chosen from courses given in other departments.

150 Introduction to Philosophy: Philosophical Classics

An introduction to philosophy through a concentration on significant historical and contemporary solutions to philosophical problems concerning reality, knowledge, and value. Not open to students who have completed Philosophy 160.

First semester, repeated second semester. MEMBERS OF THE DEPARTMENT.

160 The Problems of Philosophy: Metaphysics and Knowledge; Problems of Value

Historically significant and contemporary problems and views concerning reality, the meaning of “truth,” sources of truth, and modes of truth-seeking. The development of the method of science and the comparison of various forms of scientific inquiry with modes of inquiry in religion, metaphysics, and history. Analysis of relationships between scientific truth and insights in religion, metaphysics, and art. Not open to students who have completed Philosophy 150.

First semester. MRS. ROSE.

175 Logic

The basic principles of formal logic and their application to examples of reasoning drawn from various sources. Consideration of the philosophical basis, the value, and the limitations of formal logic.

First semester. MR. MORTON.

200 Aesthetics

Development of and relations among the diverse points of view in Western philosophies of beauty and artistic creativity and appreciation. Some attention to Oriental aesthetics. Prerequisite: Philosophy 150 or 160 (or 199).

First semester. MRS. ROSE.

205 Twentieth Century Thought

Major philosophical movements in recent Western thought, such as positivism, phenomenology, existentialism, Marxism, logical and linguistic analysis. Prerequisite: Philosophy 150 or 160 (or 199). Not open to philosophy majors. (Not open to students who have completed Philosophy 320).

First semester, repeated second semester. MEMBERS OF THE DEPARTMENT.

210 Social Philosophy

Concepts and methods in the field of social philosophy, centering on problems of the philosophical foundations of democracy and the definition of democratic ideals such as freedom and equality. Readings in Locke, Rousseau, J. S. Mill, and more recent contributors to democratic ideology. Not open to freshmen.

First semester. MR. MORTON.

Not offered 1971–72.

211 Modern Philosophical Thought

Selected topics in modern philosophy. Seventeenth and eighteenth century thinkers. Prerequisite: Philosophy 150 or 160 (or 199). Not open to majors in the department of philosophy.

First semester. MR. MORTON.

Not offered 1970–71.

220 American Philosophy

Some major varieties of American philosophical thought, with emphasis on developments of the late nineteenth and early twentieth centuries. Readings from the works of Peirce, James, Royce, Santayana, Dewey, and others. Prerequisite: Philosophy 150 or 160 (or 199).

Second semester. MR. MORTON.

230 Philosophy of Science

An attempt to clarify some of the problems concerning the logic of scientific theory construction and the criteria of acceptance of such theories through a consideration of the linguistics involved. The relevance of induction; probability; the function of models; types of discoveries in science; problems of statement verification. A brief survey of classical philosophies of science (such as those of Plato, Aristotle, Descartes, Hume, and Kant) provides an introduction to a detailed study of some contemporary readings. Prerequisite: permission of the instructor.

First semester. MR. MARTIRE.

234 Philosophy of Logic and Mathematics

The character of formal language systems of symbolic logic and mathematics; the contribution of such systems to our knowledge of the world and their relation to other uses of language. A brief survey of classical philosophies of logic and mathematics (such as those of Plato, Aristotle, Hume, and Kant) provides an introduction to detailed study of contemporary readings. Prerequisite: Philosophy 175 (or Mathematics 100).

Second semester. MR. MARTIRE.

Not offered 1970–71.

236 Linguistic Philosophy

The implications of the linguistic mode of philosophizing for the logical clarification of problems of diverse disciplines: theories of values, theories of consciousness, theology, the political and social sciences. Consideration of contemporary writings which show the possibilities of language analysis as a tool for resolving problematic issues into determinate questions subject to specifiable decision procedures. Prerequisite: Philosophy 150, 160, or 175 (or 199).

Second semester. MR. MARTIRE.

240 Philosophy of Religion

Philosophical analysis of the religious interpretations of life found in pantheism, deism, "liberal religion," and trinitarianism, and of such concepts as the divine, faith, immortality, supernaturalism, the problem of evil, and the religious functions of suffering. Reading of selected religious classics. Prerequisite: Philosophy 150 or 160 (or 199).

Second semester. MRS. ROSE.

Not offered 1971–72.

242 Eastern Philosophy

Historically significant Indian and Chinese views concerning reality, truth, man, and values. Comparison of Western and Eastern modes of thought. Prerequisite: Philosophy 150 or 160 (or 199).

Second semester. MRS. ROSE.

Not offered 1970–71.

245 Ethics

Analytical and technical study of the traditional problems of morality and happiness and of historically significant ethical thought. Prerequisite: Philosophy 150 or 160 (or 199).

Second semester. MR. MARTIRE.

250 Contemporary Philosophy and Literature

The relation of contemporary continental philosophy to certain modern works of fiction. Discussion centering on questions of influence, shared conceptual frameworks, and, most importantly, a shared view of the world and man's place in it. The works of Nietzsche, Heidegger, Sartre, and Jasper form the philosophical core of the course; writers include Dostoevsky, Kafka, Hesse, Malraux, and Sartre. Prerequisite: Philosophy 150 or 160 (or 199).

Second semester. MRS. GOSSMAN.

Not offered 1971–72.

260 Greek Philosophy

Development of philosophical thought from Thales to Plotinus. Consideration of the origin in Greek philosophy of metaphysical, epistemological, and ethical problems and of the gradual development – largely in the thought of

Socrates, Plato, and Aristotle — of a variety of significant answers to these problems. Prerequisite: Philosophy 150 or 160 (or 199).

First semester. MRS. ROSE.

263 Greek Philosophy: Selected Topics

Prerequisite: Philosophy 150 or 160 (or 199). May be reelected.

Second semester. MR. MORTON.

Not offered 1970–71.

270 Medieval Philosophy

Analysis of medieval thought in metaphysics, epistemology, ethics, and religion. Careful reading of selections from St. Augustine, St. Thomas Aquinas, Scotus Erigena, Abelard, Duns Scotus, William of Occam, and others. Prerequisite: Philosophy 150 or 160 (or 199).

Second semester. MRS. ROSE.

Not offered 1970–71.

272 Renaissance Philosophy

Development of Western philosophy from the fourteenth to the seventeenth centuries. Platonism of Ficino and Pico della Mirandola; mysticism of Boehme; philosophies of nature and metaphysics of Bruno, Galileo, and Newton. Conflict between science and religion. Prerequisite: Philosophy 150 or 160 (or 199).

Second semester. MRS. ROSE.

Not offered 1971–72.

280 Philosophy of History

Analysis of problems in the epistemology of historiography with readings concentrated in the nineteenth and twentieth centuries. Study of Christian, idealist, and materialist views of the meanings of human history through the reading of St. Augustine, Hegel, and Marx. Prerequisite: Philosophy 150 or 160 (or 199).

Second semester. MRS. GOSSMAN.

Not offered 1970–71.

311 Philosophical Thought From 1600 to 1780

The development of empiricism and rationalism in European philosophy. Major works of Spinoza and Hume read and discussed in detail; the philosophies of Bacon, Hobbes, Descartes, Leibniz, Locke, and Berkeley treated briefly to show the historical continuity of the thought of the period. Prerequisite: Philosophy 150 or 160 (or 199).

First semester. MR. MORTON.

312 Philosophical Thought From 1780 to 1900

Critical analysis of selections from the writings of Kant, Fichte, Hegel, Schopenhauer, Mill, Nietzsche, and Kierkegaard. Prerequisite: Philosophy 311 (or 309).

Second semester. MRS. GOSSMAN.

321— Contemporary Philosophy

322

Integrative study for senior majors. Topics range from analytic and linguistic philosophy through existentialism, phenomenology, pragmatism, and metaphysics. Each student works with an instructor on an independent project. Prerequisite: two Level II or III courses in philosophy. Required of senior majors. Open to others by permission of the instructor.

First and second semesters. MEMBERS OF THE DEPARTMENT.

PHYSICAL EDUCATION

ANNA C. NICHOLS, *Associate Professor; Chairman*

CHRYSTELLE TRUMP BOND, M.F.A., *Assistant Professor* (on leave of absence 1970-71)

JANET McBRIEN, B.S., *Instructor*

DALE H. PHILIPPI, B.S., *Instructor*

NANCY CHANCE, B.S., *Lecturer*

Instructor to be appointed

The department of physical education aims (1) to educate the student to be more efficient physically than she would be without certain experiences under instruction in fundamentals of movement, dance, and sports; (2) to cultivate in her socially desirable attitudes and traits; (3) to furnish her with varied opportunities for healthful recreation, exercise, and relaxation, stressing especially the spirit of play and fun and the opportunity afforded for socially pleasant and informal contacts with fellow students; (4) to supply her with the fundamental skills of at least one individual sport which she may enjoy during her leisure time in after-college years; (5) to teach her to recognize efficient movement in others in all phases of daily living as well as appreciate good performance in the areas of sports and dance.

Each student on entering college presents a certificate of health from her family physician and a record of her medical history. During the opening weeks of the session each entering student who may be restricted in physical education has a conference with the Director of Student Health Service. The facts obtained by the reports and conference form part of the student's permanent health record and furnish the starting point for the supervision of her health. The choice of activity by each student is determined by the findings of the health service, by the results of a motor ability test given to each freshman during orientation week, by her previous experience, interests, and needs.

The department believes that achievement as measured by improvement is indicative of the student's success in any given activity. It is hoped that participation in the activities offered will result in progress by the student toward the attainment of the objectives of general education.

Competition in various sports is planned by the Athletic Association in cooperation with the department of physical education. Activity clubs are encouraged. The athletic activities of the students are under constant supervision of the the Director of Student Health Service.

Aquatics

A variety of aquatic activities is offered in the Eline von Borries Swimming Pool: instruction in swimming at beginning, intermediate, and advanced levels; synchronized swimming; diving; Senior Life Saving and Water Safety Instructor courses.

First semester, repeated second semester. MEMBERS OF THE DEPARTMENT.

Contemporary Dance

Dance is one of the artistic mediums through which a student may find creative self-expression. In the course Fundamentals of Modern Dance, the student is introduced to a vocabulary of dance techniques and experiences in elementary dance composition. The Intermediate and Advanced Modern Dance courses offer dance techniques of Limon, Graham, Humphrey, Weidman, and McKayle as well as experience in short compositional studies. The Choreographic Problems course attempts to develop individual choreographic talent through exploratory studies in the elements of dance composition. Enrollment in one course in dance is required of all students by the end of the sophomore year.

First semester, repeated second semester. MRS. BOND.

Folk Dance

Selected dances from many cultural sources: American, English, German, Hungarian, Irish, Israeli, Russian, and others.

Second semester.

Individual and Dual Sports

Archery, badminton, fencing, golf, gymnastics, horseback riding, swimming, and tennis. Instruction in these activities is given with the purpose of developing sufficient interest and skill in at least one activity so that there will be the desire to continue it after leaving college.

First and second semesters. MEMBERS OF THE DEPARTMENT.

Team Sports

Basketball, hockey, softball, volley ball, and lacrosse provide activities in which the students may more fully develop those social and mental traits which are acquired only through working in cooperation with others.

First and second semesters. MEMBERS OF THE DEPARTMENT.

PHYSICS and ASTRONOMY

WILLIAM RICHARD STROH, Ph.D., *Professor; Chairman*

INGRID Y. BUCHER, Dr. rer. nat., *Associate Professor*

ELMER C. KREISEL, JR., M.Ed., *Lecturer*

VIRGINIA KILHAM CURRENT, A.B., *Assistant*

The courses offered by the department of physics and astronomy are planned for three groups of students: (1) those who desire some knowledge of the physical universe as part of a liberal arts education, (2) those who need a greater acquaintance with physical principles and laboratory techniques for their work in other scientific fields or in teaching in the elementary grades, and (3) those who plan to major in physics as preparation for graduate study, secondary school teaching, or research. Physics 101 is designed primarily for students in the first group; it is selective, not comprehensive. Astronomy 110 is a survey course intended for students in both the first and second groups. Physics 115 and 116 are designed to give a general survey of physics with emphasis on physical reasoning rather than mathematical analysis, and are intended primarily for students in the second group. Physics 120, 121, and 220 are intended for physics majors and others who require a more analytical general physics course.

The departmental major is based on Physics 220, 222, 232, 250, 260, 270, 350, and 395. Students are required to take Chemistry 115 and Mathematics 115, 116, 221, and 222. Students should prepare for the major in the first two years by electing Physics 120, 121, and 220 and mathematics through at least Mathematics 116. These requirements apply to members of the classes of 1971 and 1972 and subsequent classes, with the following exception: a member of the class of 1973 who wishes to major in physics should take Physics 115 and 116 in 1970-71 and elect independent work in the second semester of 1970-71 to prepare for Physics 270 the following year. Prospective major students who have not looked toward the completion of these courses in the first two years should confer with the chairman of the department. Russian and German are recommended as the foreign languages likely to be most useful to students majoring in physics.

Independent work may be elected with the permission of the chairman of the department.

PHYSICS

101 Space and Time from Newton to Einstein

Concepts of space, time, motion, force, mass and energy as developed by Newton and his successors. Light and the ether. Special relativity: new concepts of space, time, mass, and energy. A presentation of selected topics intended to give an idea of the content of physics and an understanding of how physical sciences develop. Intended for students planning to major in the humanities and the social sciences. Prerequisite: three years of high school mathematics. Open to students who have had high school physics only by permission of the instructor. Three class hours, no laboratory. (Not open to students who have completed Physics 100.)

First semester. MR. STROH.

115 Principles of Physics I

Mechanics and its conservation laws. Gravitational and electric forces. Recommended, with Physics 116, for students who wish a general survey of the field of physics and for those who plan to major in the life sciences. Emphasis in both of these courses is on developing physical intuition rather than mathematical analysis. Prerequisite: three years of high school mathematics. Previous study of physics may be useful but is not required. Three class hours, three hours laboratory.

First semester. MRS. BUCHER.

116 Principles of Physics II

Wave motion and light. Atoms, molecules, and the structure of matter. Atomic nuclei, nuclear reactions and nuclear energy. Prerequisites: Physics 115.

Three class hours, three hours laboratory.

Second semester. MRS. BUCHER.

120 General Physics I

Particle mechanics, introduction to special relativity, waves. Recommended, with Physics 121 and 220, for students who plan to major in the physical sciences and mathematics. In this sequence of three courses, principles basic to all of physics are studied with the aid of appropriate mechanical tools. Prerequisites: Mathematics 115 (or 109) and any of the following: one year of high school physics; Physics 115; Mathematics 116 (or 111 or 112). Students who have not completed Mathematics 116 must elect it concurrently. Three class hours, seven three-hour laboratory sessions, seven discussion sessions.

Second semester. MR. STROH.

121 General Physics II

Electric and magnetic fields. Prerequisites: Physics 120 and Mathematics 116 (or 111 or 112). Three class hours, three hours laboratory.

First semester. MR. STROH.

Not offered 1970-71.

220 General Physics III

Light, quantum theory, atoms, atomic nuclei and elementary particles. Prerequisite: Physics 121. Three class hours, three hours laboratory.

Second semester. MR. STROH.

Not offered 1970-71.

222 Mathematical Methods of Physics

Vector analysis, including the divergence theorem and Stokes's theorem. Introduction to tensors. Wave equations. Fourier series and integrals. Prerequisites: Mathematics 116 (or 113) and Physics 121. Three class hours, no laboratory.

First semester. MRS. BUCHER.

232 Statistical Physics

Statistical mechanics and thermodynamics. Prerequisites: Mathematics 116 (or 113), and Physics 220. Three class hours, no laboratory.

Second semester. MRS. BUCHER.

250 Electric Circuits and Electronics

Direct currents, transients, alternating currents. Network analysis using complex algebra. Theory of basic electrical measurements. Electronic devices and simple circuits employing them. Prerequisites: Mathematics 116 (or 113), and Physics 121. Three class hours, three hours laboratory.

First semester. MR. STROH.

Not offered 1970-71.

260 Introduction to Mechanics

Particle motion in one, two, and three dimensions. Vector analysis. Conservation theorems. Harmonic oscillator. Motion under a central force, motion of a system of particles. Simple rigid body motion. Prerequisites: Physics 121 and Mathematics 116 (or 113). Three class hours, three hours laboratory.

First term. MR. STROH.

270 Introduction to Quantum Mechanics I

Classical quantum mechanics with applications to atomic, nuclear, and solid state physics. Prerequisites: Mathematics 116 (or 113), and Physics 220; or Mathematics 222 and Physics 121. Three class hours, three hours laboratory.

First semester. MRS. BUCHER.

Not offered 1970-71.

350 Electric and Magnetic Fields

The electrostatic field, dielectrics, currents, the magnetic field, magnetic properties of matter, Maxwell's equations, electromagnetic waves. Prerequisites: Physics 222 and 250. Three class hours, three hours laboratory.

Second semester. MR. STROH.

Not offered 1970-71.

360 Advanced Mechanics

Gravitation, moving coordinate systems. Lagrange's equations. Tensors, theory of small vibrations. Prerequisite: Physics 260. Three class hours, three hours laboratory.
Second semester. MR. STROH.

370 Introduction to Quantum Mechanics II

Continuation of Physics 270. Prerequisite: Physics 270. Three class hours, three hours laboratory.
Second semester. MRS. BUCHER.
 Not given 1970-71.

395 Physics Seminar

Variation in topics from year to year depending on interests and needs of students. Open only to senior majors in physics.
Second semester. MEMBERS OF THE DEPARTMENT.

ASTRONOMY**110 Introduction to Astronomy**

The earth's motions and their relation to timekeeping and the appearance of the sky. The other planets and the sun. The stars: their variety, distances, and evolution. The Milky Way and other galaxies. Naked eye and telescopic observations. Prerequisite: three years of high school mathematics. (Not open to students who have completed Astronomy 111 or 112.) Three class hours, up to three hours of observation.
First semester. MR. KREISEL.

POLITICAL SCIENCE

BROWNLEE SANDS CORRIN, Ph.D., *Professor* (on leave of absence 1970-71)

JEROME I. COOPERMAN, Ph.D., *Associate Professor; Acting Chairman*

MARIANNE GITHENS, Ph.D., *Associate Professor*

VIRGINIA BOYLE ERMER, A.M., *Assistant Professor*

LAWRENCE KAY MUNNS, A.M., *Assistant Professor*

STEPHEN E. DOYLE, LL.B., *Lecturer*

HAROLD M. HELFMAN, Ph.D., *Lecturer*

BEVERLY M. BROUMEL, *Executive Secretary, Field Politics Center*

The program in the department of political science is designed to direct the student in the attainment of specialized and general critical knowledge of the nature, systems, methods, techniques, and applications of politics in theory and practice as they concern the individual and humanity.

The department operates the Field Politics Center, which was originally established under a grant from the Maurice and Laura Falk Foundation. The purposes of the Center are to serve as the field work and research center in political science and to provide all Goucher students with practical knowledge and experience which will enable them to carry out their political responsibilities as citizens.

Many of the political science courses require laboratory functions in the form of field trips and/or field work. Field trips are listed in the schedule of classes for those courses requiring three or more. *All courses in the department are open to students with permission of the instructor concerned.*

Students majoring in political science are required to concentrate on one of the following fields of specialization: theory; public law; public administration; comparative politics; American politics; subnational politics, policy and planning; international relations. It is recommended that the prospective major take Political Science 102, 110, 121, and 150 unless the method-content of these courses has been covered in other ways. The major includes completion of two Level II courses and one Level III course in the field, one semester of independent work in the field, and three supporting Level II and III courses in other fields of political science or other disciplines.

Completion of Political Science 295 and 296 is required of all majors as is the integrative reading program, Political Science 391, which continues through the junior and senior years. The requirement for an integrative experience may be fulfilled, subject to departmental approval, through such directions, singly or in combination, as an oral and/or written examination, independent work, field work, or directed reading.

Students graduating in 1971 continue meeting the requirements outlined in the April 1969 Bulletin with appropriate modifications made in consultation with major advisers.

Major students are expected to be able to communicate effectively in verbal and written English and to have the ability either to read political science material in a foreign language or to use the tools of mathematics-statistics-computer technology in political science. They are also expected to participate in field work, professional conferences, and other activities appropriate and related to their discipline.

Details of the political science program are set forth in the Manual for Majors in Political Science, which may be obtained in the College Bookstore.

102 Nature and Process of Politics

Selected problems in politics: formulating and maintaining consensus, political authority, social protest. Emphasis on the relationship of these problems to frameworks of analysis, methods, and approaches. (Not open to students who have completed Political Science 101.)

Second semester. MR. COOPERMAN, MISS GITHENS.

110 Political Power in the United States

A behavioral, structural, and cultural analysis of the distribution and use of political power in the United States. Emphasis on the normative aspect of the scientific study of politics and the implications of varying methods and approaches, with American politics providing the frame of reference.

First semester, repeated second semester. *First semester,* MR. MUNNS; *Second semester,* MRS. ERMER.

121 Introduction to Comparative Politics

Methodological approaches to the study of comparative politics. Illustrations of selected methodological approaches through case studies. Emphasis on the politics of industrialized and post-industrialized societies. (Not open to students who have completed Political Science 120.)

First semester. MISS GITHENS.

150 Introduction to International Relations

Analysis and evaluation of the forces operating in international relations; their impact upon world society and the individual. Methods, techniques, simulation, and field study.

First semester. MR. CORRIN.

Not offered 1970-71.

200 Introduction to Western Political Thought I

Basic functions and problems in political thought; the role of description, explanation, evaluation, and recommendation as exemplified by selected figures: Plato, Aristotle, St. Thomas, Marsilio, Machiavelli. Changing meanings of basic concepts of the state, the law, freedom, equality. Citizenship in historical perspective from classical Greece through the Reformation. Prerequisite: Political Science 102 (or 101).

First semester. MR. COOPERMAN.

201 Introduction to Western Political Thought II

Continuation of Political Science 200 with emphasis on new justifications of national power, revolt, and revolution, and new concepts of the individual and of the community. Principal figures of study: Hobbes, Locke, Rousseau, J.S. Mill, Hegel, and Marx. Prerequisite: Political Science 200.

Second semester. MR. COOPERMAN.

216 Seminar on Dynamics of National Security

Problems, factors, and forces involved in formulation and administration of national security policy. Prerequisite: Political Science 110.

First semester. MR. HELFMAN.

219 Political Culture

Contemporary theories and concepts of political culture. The transmission of political values, the process of political socialization, and the internalizing of systems norms. Dysfunctional stress and its relationship to political socialization, political participation, and a sense of political efficacy. Patterns of political recruitment, the disequilibrated society, alienation, anomie, violence, and revolution. Prerequisites: Political Science 102 (or 101) and 110.
Second semester. MISS GITHENS.

226 Politics of Developing Societies

Examination of nations in transition from traditional to modern society. Relation between political development and economic and social change; the role of modernizers; evolving patterns of political leadership; development of requisite governmental structures; creation of a sense of national unity. Case studies of selected pre-industrialized societies. Prerequisite: one of the following: Political Science 102 (or 101), 121 (or 120), 296.
First semester. MISS GITHENS.
 Not offered 1970-71.

230 Political Problems in States and Cities

Analysis of the changing political and administrative roles of states and cities in the American federal system. Consideration of the distribution of political power in American communities. Research required in either federalism or community power. Prerequisite: Political Science 110.
First semester. MRS. ERMER.

235 Ethnic Politics

Nature, patterns, conflicts, and effects emerging from ethnic groupings in political society. Prerequisite: Political Science 110.
First semester. MRS. ERMER.

237 Planning

The roles, methods, techniques, and problems involved in community-urban-metropolitan planning. Prerequisite: Political Science 110.
Second semester. MRS. ERMER.

240 The American Political Process

The group theory of politics and the problem of private power in American politics. A behavioral and structural analysis of American political parties and an examination of the role of public opinion in the United States. Prerequisite: Political Science 110.
First semester. MR. MUNNS.

253 International Law

The content, form, and force of law within the community of nations. Consideration of international, private, public, procedural, and administrative law; the laws of admiralty and space; enabling instruments in municipal law. Prerequisite: Political Science 150.
First semester. MR. CORRIN.
 Not offered 1970-71.

256 International Organization

Critical study of world organization dealing with economic, social, and political problems through examination of the machinery and methods of international action. Attention to interest groups, national ministries of foreign affairs, conferences, private international unions, specialized agencies, regional organizations, the League, and the United Nations. Prerequisite: Political Science 150.
Second semester. MR. DOYLE.
 Not offered after 1971-72.

257 International Communications

The nature and effects of communications systems. Consideration of major theories (information, cybernetic, linguistic, and sign-behavior) in a framework of conflict resolution. Prerequisite: Political Science 150.
Second semester. MR. CORRIN.
 Not offered 1970-71.

260 Public Administration

Public administration as a field of study: recent developments, theories, and methodologies. The role of administration in American politics. Attention to planning, budgeting, personnel, and administrative responsibility. Prerequisite: Political Science 110 (or Interdepartmental Course 255).

Second semester. MR. MUNNS.

Not offered 1970-71.

265 The Role of Public Bureaucracies in Contemporary Societies

Comparative examination of national public bureaucracies in developed and developing societies. Emphasis on bureaucratic power, bureaucracy as an agent of social and economic change, and bureaucracy and the individual. Prerequisite: Political Science 260.

Second semester. MR. MUNNS.

Not offered 1971-72.

270 American Constitutional Law I

The Supreme Court in political process. Contemporary issues with historical implication. Particular consideration of the nature and scope of judicial review, problems in federalism and separation of powers, and substantive questions concerning commerce and taxation. Prerequisite: one of the following: Political Science 102 (or 101), 110, a course in United States history.

First semester. MR. COOPERMAN.

272 American Constitutional Law II

Basic problems in civil liberties. Citizenship and the equal protection of the laws; theories and problems in free speech, free press, censorship, and freedom of association; church-state problems; selected topics in procedural due process (search and seizure and the right to counsel). Prerequisite: Political Science 270. (Not open to students who have completed Political Science 271.)

First semester. MR. COOPERMAN.

Not offered 1970-71.

295 Seminar in Method, Scope, and Content of Political Science I

Prerequisite: major in political science.

First semester. MEMBERS OF THE DEPARTMENT.

296 Seminar in Method, Scope, and Content of Political Science II

Prerequisite: Political Science 295.

Second semester. MEMBERS OF THE DEPARTMENT.

301 Behavioral Analysis

Concepts and tools of contemporary behavioral analysis with emphasis on mathematical techniques used by political scientists, such as scale analysis, sub-group analysis, game theory applications, coalition theory and homeostasis. Critical evaluation of some of the literature in the field. Individual and class projects involving the use of these techniques and tools. Prerequisite: Political Science 295 (296 after 1970-71). (Not open to students who have completed Political Science 300.)

Second semester. MISS GITHENS.

303 Problems in Political Thought

Topic for 1970-71: the political and social thought of John Dewey. Prerequisites: Political Science 200, 295 (after 1970-71, 296).

Second semester. MR. COOPERMAN.

Not offered 1971-72.

316 Seminar in Selected Problems in International Relations

Communications, demography, environment, security. Prerequisite: one of the following: Political Science 150, 253, 256, 257, 295.

Second semester. MR. CORRIN.

Not offered 1970-71.

320 Political Party Systems

Theories of political party systems; one party, two party and multi-party systems; some analytic models. The relationship of such factors as interest aggregation, the electoral process, and ideology to party systems. Selected case studies. Prerequisite: in 1970-71, Political Science 121 (or 120); after 1970-71, Political Science 296.

First semester. MISS GITHENS.

Not offered 1971-72.

330 Seminar in Regional, State, and Metropolitan Politics

Prerequisite: Political Science 296 (or Interdepartmental Course 255).

Second semester. MRS. ERMER.

340 Seminar in Selected Aspects of American Politics

Prerequisites: Political Science 240 and 296.

Second semester. MR. MUNNS.

Not offered 1970-71.

353 Space Law and Politics

Examination of problems of space and of emerging patterns of solution through national and international organizations. Emphasis on sovereignty over celestial bodies, regulation of space vehicles, space communications, liability, medical jurisprudence, and metalaw. Prerequisites: Political Science 253 and 256 or 257; after 1970-71, 296.

First semester. MR. DOYLE.

Not offered 1971-72.

360 Seminar on Selected Aspects of Administration

Topic for 1970-71: bureaucracy and social, economic, and political change. Prerequisites: Political Science 260 or 265, and 295; after 1970-71, Political Science 260 or 265, and 296.

Second semester. MR. MUNNS.

Not offered 1971-72.

370 Problems in American Constitutional Law

Topic for 1970-71: theoretical and practical aspects of recent problems in free speech, censorship, and freedom of association. Prerequisites: Political Science 272, 296.

Second semester. MR. COOPERMAN.

Not offered 1970-71.

380 Seminar in Public Affairs

Directed internships for qualified students in governmental agencies, party organizations, or pressure-interest groups in Baltimore and Washington. Weekly seminars on methodology, operational techniques, and specialized studies in areas of administration, legislation, and politics. Prerequisite: permission of instructor.

Second semester. MR. MUNNS.

391 Integrative Reading

Required of majors each semester of junior and senior years.

First semester, repeated second semester. MEMBERS OF THE DEPARTMENT. One semester hour each semester.

PREMEDICAL STUDIES

Co-Chairmen of the Interdepartmental Committee to Administer the Major

ANN M. LACY, Ph.D., *Associate Professor and Chairman, Department of Biological Sciences*

JAMES L. A. WEBB, Ph.D., *Professor and Chairman, Department of Chemistry*

Students who wish to enter the medical profession are advised to plan their programs to this end from the beginning of their college work. Requirements for admission to medical school may be met by pursuing a major in biological

sciences or in chemistry or in any other discipline, provided the specific requirements for medical school are fulfilled. Detailed information concerning specific medical schools and the Medical College Admission Test, which is ordinarily taken in the junior year, may be obtained from the chairman of the department of chemistry.

Courses in the following subjects are required for entrance to many medical schools: biological sciences (2-4 semesters), inorganic chemistry (2 semesters), organic chemistry (2 semesters), English (2-3 semesters), mathematics (2 semesters), modern foreign language (2-3 semesters), physics (2 semesters).

A major in premedical studies is provided for those students who prefer not to major in a single department. This major allows the student to pursue a broadly based program with a minimum of conflicting demands. It also prepares the student for professional training in medical technology. Students interested in pursuing a major in premedical studies should consult the chairman of either the department of biological sciences or the department of chemistry.

The major consists of the following courses in Faculty III: Biological Sciences 100, 211, 235, and four additional courses of which at least one must be at Level III; Chemistry 115, 150, 230, 235, 240, 262, 340; Mathematics 115, 116; Physics 115 and 116, or 120 and 121. As her integrative exercise the student may present Chemistry 340 or any approved elective in biological sciences. It is highly recommended that she include in her electives courses in the social sciences.

Sometimes an entering student begins a premedical program in the freshman year only to find her interests changing later to a more specific interest in biological sciences or chemistry, with concomitant problems in scheduling. An entering freshman who follows the program outlined below is able to pursue a premedical major without attending summer school or electing more than a normal load. Moreover, she can elect a major in chemistry as late as second semester of her junior year or a major in biological sciences as late as the end of her junior year.

Decision to prepare for medical school after the freshman year may necessitate attendance at summer school.

SUGGESTED PROGRAM IN PREMEDICAL STUDIES

<u>Year</u>	<u>1st Semester</u>	<u>2d Semester</u>
Freshman	Biological Sciences 100 Chemistry 115 Mathematics 115	<u>or</u> Biological Sciences 100 Chemistry 150 Mathematics 116
Sophomore	Chemistry 230 Physics 115	Biological Sciences 211 Chemistry 235 Physics 116
Junior	Chemistry 240 Chemistry 262	Biological Sciences 235 Biological sciences elective
Senior	Biological sciences elective Biological sciences elective	Biological sciences elective Chemistry 340

PSYCHOLOGY

RUTH C. WYLIE, Ph.D., *Professor* (on leave of absence 1970-71)
 CECILLE GOLD, Ph.D., *Associate Professor; Acting Chairman*
 JEAN BRADFORD, Ph.D., *Assistant Professor*
 BARBARA HENRY LONG, Ph.D., *Assistant Professor*
 KRISTINA HEDIN, A.B., *Supervisor of Laboratories*
Instructor to be appointed

The curriculum of the department of psychology is directed toward the following goals: (1) to give the student a general understanding of the lawfulness of behavior and the methodology of behavioral sciences; (2) to help the

student achieve a fund of knowledge in the area of special interest; (3) to prepare the student majoring in psychology for graduate study.

The major in psychology consists of eight courses at Levels II and III, including 200, 201, 202, and 220 or 230, and at least two courses at Level III. One semester of advanced independent work may be substituted for a course at Level III. Only under exceptional circumstances is a January term offering counted as one of the courses required for the major. Psychology 395, Integrative Exercise, while equivalent in credit to one course, is not included in the eight courses required for the major.

Students interested in declaring one of the following combination majors should consult one of the appropriate department chairmen: psychology-biology, psychology-education, psychology-sociology.

The department offers qualified students an opportunity to do independent work for one or more terms. Independent study may consist of library or laboratory research, or of directed reading in an area not ordinarily included in the course offerings. Interested students are invited to discuss plans for independent work with any member of the department.

110 Introduction to Psychology I

An introduction to the methods and concepts of contemporary psychology. Methods of controlled observation, hereditary and environmental influences on behavior, motivation and emotion, simple learning. Prerequisite: a laboratory course in high school biology or a college course in biology. Three hours lecture, three hours laboratory six times per semester, one hour of discussion five times per semester.

First semester. MEMBERS OF THE DEPARTMENT.

111 Introduction to Psychology II

A continuation of the introduction to the methods and concepts of contemporary psychology. Complex learning and thinking, perception, abilities. Selected topics in personality and social psychology. Laboratory includes independent research project. Prerequisite: Psychology 110. Three hours lecture, three hours laboratory.

Second semester. MEMBERS OF THE DEPARTMENT.

200 Quantitative Methods in Psychology

Methods for the design of psychological experiments and analysis of behavioral data. Methods of evaluating data include measures of central tendency, variability, correlation and regression, tests of significance, and analysis of variance. Prerequisite: Psychology 111 or concurrent registration in 111. Three hours lecture, one hour laboratory.

Second semester. MISS GOLD.

201 Experimental Psychology I

Study of perception with emphasis on vision and hearing. Experiments utilizing psychophysical and scaling techniques. Prerequisite: 1970-71, Psychology 111; thereafter, Psychology 200. Three hours lecture and discussion, three hours laboratory.

First semester. MISS GOLD.

202 Experimental Psychology II

Study of learning, with emphasis on conditioning, memorizing, and problem solving. Experimental work with human subjects and lower animals. Prerequisite: Psychology 200 (may be elected concurrently with 200 in 1970-71 only); or Psychology 111, Mathematics 105, and permission of the instructor. Three hours lecture and discussion, three hours laboratory.

Second semester. INSTRUCTOR TO BE APPOINTED.

220 Personality Theory

Examination and appraisal of several major personality theorists, including Freud, Jung, Reich, Sullivan, Rogers; learning theory and existential viewpoints in psychology. Prerequisite: Psychology 111.

First semester, repeated second semester. MRS. BRADFORD.

230 Social Psychology

Social behavior, including theoretical and empirical approaches to the study of interpersonal relations, social status, language, attitudes and attitude change, group interaction. Prerequisite: Psychology 111.

First semester. MRS. LONG.

240 Developmental Psychology

Research methods and findings relevant to cognitive, emotional, and social development from infancy through adolescence. Prerequisite: Psychology 220 or 230.

Second semester. MRS. LONG.

251 Psychological Testing

Techniques of construction and interpretation of psychological tests. Emphasis on tests of intelligence and personality. Prerequisites: Psychology 111 and one of the following: Psychology 200, Mathematics 105, Sociology 215. Three hours lecture, two hours laboratory on campus or in the field.

First semester. MRS. LONG.

260 Physiological Psychology

Neurological and physiological foundations of behavior. Emphasis on functional neuro-anatomy, physiological bases of sensory, motivational, and emotional processes. Prerequisite: Psychology 111.

Second semester. MISS GOLD.

Not offered 1970-71.

270 Abnormal Psychology

Critical examination of current concepts of mental health and illness. Review of various theories of psychopathology (psychoanalytic and existential learning approaches) and discussion of the major psychiatric syndromes and systems of psychotherapy. Prerequisite: Psychology 220.

Second semester. MRS. BRADFORD.

320 Empirical Personality Study

Representative research areas in contemporary personality study viewed from the standpoints of methodology and substance. Prerequisites: Psychology 220, and Psychology 200 or Sociology 216.

First semester. MISS WYLIE.

Not offered 1970-71.

330 History and Systems of Psychology

Historical antecedents of some major issues in modern psychological theory. Emphasis on the contributions of such schools as structuralism, functionalism, behaviorism, psychoanalysis, and gestalt psychology. Prerequisite: two Level II courses in psychology.

First semester. INSTRUCTOR TO BE APPOINTED.

Not offered 1971-72.

380 Seminar in Contemporary Problems in Perception

Current issues in perception. Variation in content from year to year. Topics include visual perception, audition, perceptual learning, motivational effects on perception, set and perception. Prerequisite: Psychology 201.

Second semester. MISS GOLD.

Not offered 1971-72.

382 Seminar in Contemporary Problems in Learning

Current issues in learning. Variation in content from year to year. Topics include concept formation, verbal learning, language development and behavior, learning and the brain. Prerequisite: Psychology 202.

Second semester. MISS GOLD.

Not offered 1970-71.

384 Seminar in Psychological Aspects of Social Behavior

Selected topics in social psychology, with emphasis on current research. Independent research project required. Prerequisites: Psychology 230, and Psychology 200 or Sociology 216.

Second semester. MRS. LONG.

386 Seminar in Advanced Personality Study

Variation in content from year to year. Concentration of childhood psychopathology, including theoretical discussion, personality assessment in children, and field work placements. Prerequisites: Psychology 220, and 270 or senior major standing.

First semester. MRS. BRADFORD.

395 Integrative Exercise

Students submit several papers answering questions requiring integration of all courses taken for the major. Students may prepare the papers independently or discuss them first in a student-run seminar. Some questions require integrated application of course materials to formulation of a hypothetical research study, critical analysis of a major study or line of research, or critical analysis of specified popular book(s). If staff members judge that a student's independent work is sufficiently broad and integrative, it may be substituted for the above-described Integrative Exercise.

Second semester. MEMBERS OF THE DEPARTMENT.

RELIGION

WALTER M. MORRIS, B.D., *Professor, Chairman*

WILLIAM R. MUELLER, Ph.D., *Professor of English*

JOHN V. CHAMBERLAIN, Ph.D., *Associate Professor* (on leave of absence 1970-71)

JAMES WILLIAM McCLENDON, JR., Th.D., *Lecturer*

Lecturer to be appointed

The department of religion seeks to introduce the student to the religious literature, tradition, and thought of her own and other cultures and to aid her in the development of an understanding of a religious view of life.

The major requires a minimum of eight Level II and III courses chosen at the discretion of the student with the advice of the chairman of the department. These may include as many as three pertinent courses from other departments, courses offered either in a semester or in a January term, provided the chairman of the department of religion approves. Senior majors complete a semester of independent work, which integrates a significant portion of their course work in the major.

100 The Religion and Literature of the Old Testament

Origin, development, classic forms, and modern significance of the religion and literature of the Old Testament in the light of the history, social life, and religions of the ancient Orient, and of the religious life and thought of the modern world.

First semester, repeated second semester. MEMBERS OF THE DEPARTMENT.

150 The Religion and Literature of the New Testament

The literary forms and religious ideas of the New Testament against their historical, social, and religious backgrounds; their significance for the rise of Christianity and for religion and culture in the modern world.

Second semester. MR. CHAMBERLAIN.

Not offered 1970-71.

151 The New Testament: Religion and Revolution

The documents of the New Testament examined as revolutionary literature and as the literary product of religious awareness. Jesus and the early Christians in the light of this examination.

Second semester. MR. McCLENDON.

Not offered after 1970-71.

200 Great Religions of the World I

Religions of India, China, Japan, and neighboring states and islands, primitive groups; Hinduism, Buddhism, Confucianism, Taoism, Shinto; attitudes toward life, ceremonies, conceptions of Deity, human salvation, ethics, social systems, sacred literatures. Prerequisite: one course in religion. Not open to students who have completed Religion 212.

First semester. MR. MORRIS.

201 Great Religions of the World II

Zoroastrianism, Judaism, Christianity, Islam; beliefs, rites, social systems, sacred scriptures, conceptions of salvation; Judaism and Christianity in their classic postbiblical developments through the centuries. Prerequisite: one course in religion.

Second semester. MR. MORRIS.

210 Religion in America

Development of the institutions and main trends of thought of American Protestantism, Catholicism, and Judaism from colonial times to the present. Attention to black religion. Prerequisite: sophomore standing.

First semester. MR. CHAMBERLAIN.

Not offered 1970-71.

211 American Religious Thought

The theoretic of American religious figures from Roger Williams to Martin Luther King, Jr., viewed as seminal material for American religious self-understanding. Prerequisite: sophomore standing.

First semester. MR. McCLENDON.

Not offered after 1970-71.

212 Hinduism and Buddhism

An introductory but detailed examination of the tradition, literature, and values of these interrelated religions. Prerequisite: a course in religion.

Second semester. MR. MORRIS.

Not offered 1971-72.

214 Islam

An introductory but detailed examination of the tradition, literature, and values of Islam. Prerequisite: a course in religion.

Second semester. MR. MORRIS.

Not offered 1970-71.

217 Modern Jewish Thought

Development of Jewish religious thought from the Enlightenment to the present. Intensive reading of selected works of Moses Mendelsohn, Achad Ha-am, Martin Buber, Mordecai Kaplan, Richard Rubenstein, and others. Not open to freshmen.

First semester. MR. WEINER.

220 Theologies of the Reformation

Studies of the documents and events of the Lutheran, Reformed, Anabaptist, and English Reformations and the Catholic Counter-Reformation. Attention to medieval Catholicism as background. Prerequisite: one of the following: Religion 150, 151, History 210, 242, Philosophy 270, Political Science 200, Visual Arts 201, 204.

Second semester. MR. CHAMBERLAIN.

Not offered 1970-71.

230 Religions of Antiquity

Religions of ancient Egypt, Assyria-Babylonia, Greece, and Rome; their importance as expressions of great cultures of the past, as the historical and religious environment of Judaism and early Christianity, and as background for the religion and culture of the modern world. Prerequisite: one course in religion.

First semester. MR. MORRIS.

Not offered 1970-71.

240 Contemporary Writings

Intensive reading and discussion of contemporary writings about religion. Readings in 1968-69 included selections from the following: Martin Buber, Aldous Huxley, Richard Rubenstein, Paul Tillich, Reinhold Niebuhr, Arnold Toynbee, Dietrich Bonhoeffer, Pierre Teilhard de Chardin, Mircea Eliade, Thomas J. J. Altizer, William Hamilton. Prerequisites: one course in religion, one course in philosophy, and junior standing.

First semester. MR. MORRIS.

Not offered 1971-72.

270 Modern Religious Thought

Some creative strands in Western religious theoretics, their origin and present import, from the religious crisis of the Enlightenment to the late twentieth century. Emphasis on developing the student's reflective power. Prerequisite: junior standing.

First semester. MR. McCLENDON.

Not offered after 1970-71.

300 Interpretations of Jesus

The varieties of interpretation of the person and work of Jesus from the New Testament through the major epochs of church history to the present. Emphasis on the reading of primary sources. Prerequisites: Religion 150 and junior standing.

Second semester. MR. CHAMBERLAIN.

Not offered 1970-71.

320 Seminar in Theology and Literature

Topic for 1970-71: images of man in modern literature; studies in Lawrence, Joyce, Eliot, Dostoevsky. Priority given in admission to senior majors in religion and English. Prerequisites: a course in English and a Level II course in philosophy or religion dealing with literature of the discipline.

Second semester. MR. MUELLER.

340 Analytical Philosophy of Religion

Consideration of religious and other convictional problems of a pluralistic society through an analysis of the language and rational adjudication of beliefs in contrast with positivist and relativist doctrines. Prerequisites: two courses in religion and/or philosophy.

Second semester. MR. McCLENDON.

Not offered after 1970-71.

350 Directed Reading on Theological Problems Related to the Concept of God

For advanced students who wish to pursue specialized work. Readings chosen according to needs and interests of individual students. Prerequisites: junior standing and three courses in religion and/or philosophy dealing with religious thought.

First semester. MR. McCLENDON.

Not offered after 1970-71.

SOCIOLOGY AND ANTHROPOLOGY

OLIVE WESTBROOKE QUINN, Ph.D., *Professor of Sociology; Chairman*

ALICE S. ROSSI, Ph.D., *Associate Professor of Sociology*

WILLIAM LEONS, A.M., *Assistant Professor of Anthropology*

RUTH H. YOUNG, D.S.W., *Lecturer in Sociology*

Instructor to be appointed

Course offerings in sociology and anthropology are designed to (1) meet the needs of those students who look to these fields for an educational experience in the liberalizing arts and (2) provide a sound foundation for graduate study in sociology, anthropology, or social work.

The department operates the Center for Sociological Study. The purpose of the Center is to give students opportunity for work on small research projects, usually connected with their course work; to enlarge the area of professional contacts between the College and the wider community; and to relate work in community agencies to academic study.

A student may elect a major in sociology or in sociology and anthropology. Either of these majors may be combined with a major in another department. The department also cooperates with other departments in offering certain established interdepartmental majors.

The major in sociology requires a minimum of eight Level II and III courses in the field of concentration, two of which must be at Level III. Required courses are Sociology and Anthropology 105, 117 (or 115), 215, 216, 395. In consultation with her adviser the student plans her course of study to include supporting courses from allied fields.

The major in sociology and anthropology requires a minimum of ten Level II and III courses, three of which must be at Level III. Required courses are Sociology and Anthropology 105, 116, 117 (or 115), 215, 216, 247, 385, 395. In consultation with her adviser the student plans her course of study to include supporting courses from allied fields.

Students majoring in sociology or in sociology and anthropology meet the requirement of integration in any of the following ways: (1) planning and execution of an independent study; (2) completion of Sociology 395, followed by the preparation during January term of an extended paper growing out of interests developed in the seminar; (3) completion of Sociology 396.

105 Sociological Analysis

Introduction to the sociological perspective through a combination of theoretical analysis and practical research exercises in selected social institutions: social stratification, family, formal organizations.

First semester, repeated second semester. MEMBERS OF THE DEPARTMENT.

116 Anthropology I: Human Evolution and Prehistory

The mechanisms of evolution and the fossil evidence for human evolution. The development of culture up to the emergence of early civilization.

First semester. MR. LEONS.

117 Anthropology II: Cultural Anthropology

An examination of the concept of culture and its significance in the study of the behavior of man with special reference to social organization, ideology, and language. (Not open to students who have completed Sociology and Anthropology 115.)

Second semester. MR. LEONS.

205 The Field of Social Work

Examination of social work goals, values, knowledge, methods, areas of practice, and agency settings. Three field trips required. Prerequisite: Sociology and Anthropology 105 or 117 (or 115). Not open to freshmen.

Second semester. MRS. YOUNG.

210 Family and Kinship

Introduction to the family as a social system and its relation to other institutions in simple and complex societies. Comparison of the American family system with those in a selected series of other societies; historical review of changes in the structure and function of the American family; analysis of key relationships within the family, between spouses, parents and children, and among siblings as they develop and change during the course of the family cycle. Prerequisite: Sociology and Anthropology 105.

First semester. MRS. ROSSI.

215, 216 Methods of Social Research I, II

Concepts and methods of research in the social sciences examined and used in the execution of a group research project. Relevant techniques and their alternatives considered in the context of a particular phase of the research effort. Emphasis on ability to read critically research findings representing descriptive and analytic statistics; training in selection and use of research tools appropriate to social scientific inquiry; definition and design of research problems; data collection and analysis; presentation of findings. Required of junior majors. Open to other students by permission of the instructor. Sociology and Anthropology 215 prerequisite to 216. Three hours lecture, two hours laboratory.

First and second semesters. INSTRUCTOR TO BE APPOINTED.

220 Human Life Cycle

Introduction to the human development perspective through examination of the social and cultural dimensions of human maturation and aging. Cultural variation and historical change in fertility and longevity and their impact on family, educational, political, and economic institutions. Special attention to impact of increased longevity on balance between work and leisure, and of population growth for structure of family role of women. Prerequisite: Sociology and Anthropology 105 and permission of instructor.

Second semester. MRS. ROSSI.

Not offered 1971-72.

227 Indians of South America

Survey of the indigent peoples of South America with emphasis on pre-Columbian cultures and contemporary tribal peoples. Prerequisite: Sociology and Anthropology 117 (or 115).

First semester. MR. LEONS.

235 Sex and Society

Historical and cross-cultural analysis of the physical, emotional, and social dimensions of the man-woman relationship. Social differentiation in sexual behavior and beliefs; historical and current trends in fertility expectations, behavior, and methods of control. Prerequisite: junior standing.

Second semester. MRS. ROSSI.

Not offered 1970-71.

237 Contemporary Cultures of Latin America

Pre-Columbian background, contemporary community studies, and total national systems viewed from an anthropological perspective. Prerequisite: Sociology and Anthropology 117 (or 115).

Second semester. MR. LEONS.

245 Social Inequality

Historical and sociological analysis of the major categories of social differentiation within American society: social class, race, religion, ethnicity, age, and sex. Special attention to social movements directed toward the achievement of racial and sexual equality. Prerequisite: Sociology and Anthropology 105 and permission of instructor. (Not open to students who have completed Sociology and Anthropology 246).

Second semester. MRS. ROSSI.

247 Peasant Cultures

Peasant communities examined for their common characteristics, range of variation, and integration into larger national units. The implications of modernization for peasant communities. Prerequisite: Sociology and Anthropology 117 (or 115).

Second semester. MR. LEONS.

254 Higher Education in Contemporary Society

American colleges and universities examined from a variety of perspectives. Historical changes in their numbers, types, structure, and function in the larger society; changes in their relationship to political and occupational systems. Internal analysis of the status and role of students, faculty, administration, and trustees. Differential institutional effects of higher education on student values, personality, and goals. The university as a contemporary arena for dialogue, ferment, and dissent. Prerequisite: junior standing.

First semester. MRS. ROSSI.

285 Community Studies

Development of the modern urban community and its patterns of organization. Field experience in the Baltimore metropolitan area. Prerequisite: Sociology and Anthropology 105.

First semester. MRS. QUINN.

Not offered 1971-72.

295 Research Seminar in Social Problems

Research and field experience in social problems. Field placements, arranged through the Center for Sociological Study and supervised by the cooperating agency, provide for each student a work-study context for research in a selected problem area. Discussion of relevant theoretical and methodological considerations in weekly seminars. Prerequisites: junior standing and one course from each of the following groups: Sociology and Anthropology 245, 254, 285 (or 225); and Sociology and Anthropology 216, Mathematics 105 or 240, Psychology 200. Two hours seminar, eight hours field work.

First semester. MEMBERS OF THE DEPARTMENT.

Not offered 1970-71.

310 Seminar in Sociology of the Family

Topic to be selected jointly by the instructor and the participating students. Prerequisites: Sociology and Anthropology 210 and permission of the instructor.

Second semester. MRS. ROSSI.

Not offered 1971-72.

320 Seminar on Women's Movements

Topic to be selected jointly by the instructor and the participating students. Prerequisite: Sociology and Anthropology 245 and permission of the instructor.

Second semester. MRS. ROSSI.

Not offered 1970-71.

385 Seminar in Sociology and Anthropology

Topic to be selected jointly by the instructor and the participating students. Prerequisites: Sociology and Anthropology 117 (or 115) and two Level II courses in the department.

First semester. MR. LEONS.

387 Seminar in Selected Problems in Social Psychology

The individual as a product of social interaction in group processes. Contributions of a sociological orientation to understanding the emergence of self. Prerequisites: two Level II courses in sociology and/or psychology.

Psychology 230 recommended. Two hours lecture and discussion.

Second semester. MRS. QUINN.

395 Seminar in Social Theory

An historical and theoretical survey of the development of sociological and anthropological thought; pertinent literature of the nineteenth and twentieth centuries. Required of senior majors. Open to senior majors in other departments of Faculty II by permission.

First semester. MRS. QUINN.

396 Integrative Study

Preparation of several short papers in response to a set of problems defined by the department. Such papers require critical analysis of new materials.

Second semester. MEMBERS OF THE DEPARTMENT.

VISUAL ARTS

LINCOLN F. JOHNSON, Jr., Ph.D., *Professor*; (on leave of absence 1970-71)

GRETEL CHAPMAN, Ph.D., *Associate Professor*

DONALD THURSTON RISLEY, M.F.A., *Associate Professor; Chairman*

ERIC VAN SCHAACK, Ph.D., *Associate Professor*

HILTON BROWN, M.F.A., *Assistant Professor*

SARA LYNN HENRY, A.M., *Lecturer*

JAMES EDWARD LEWIS, M.F.A., *Lecturer*

Courses in the department of visual arts offer students the opportunity to investigate the role of art in the history of mankind, to explore the technical methods and materials of the visual arts, to develop critical discrimination and method, and to discover their personal creative resources and potentialities.

In addition to the extensive collection of books, slides, photographs, and reproductions at the College, students have access to original materials in temporary exhibitions on the campus and in the special exhibitions and permanent collections of nearby museums and galleries: in Baltimore at the Baltimore Museum of Art, the Walters Gallery, the Peale Museum, the Maryland Institute College of Art, The Johns Hopkins University, and the Maryland Historical Society; in Washington at the Corcoran Gallery, the Phillips Memorial Gallery, the Freer Gallery, the Dumbarton Oaks Collection of Byzantine Art, the Gallery of Modern Art, the Smithsonian Institution, and the National Gallery of Art; in both cities at the private commercial galleries. Certain courses at The Johns Hopkins University, The Maryland Institute College of Art, and the Baltimore Museum of Art are open to qualified Goucher students. Independent work may be arranged under the direction of members of the department or, occasionally, under the direction of members of the staffs of the local museums. Interested students should consult the chairman of the visual arts department.

Students majoring in visual arts may concentrate their studies in history and criticism, in studio art, or in a combination of the two areas. All three areas of major concentration require a familiarity with the history and critical resources, materials and techniques of Western art. For a concentration in history and criticism the student should elect Visual Arts 201, 204, 207, 212 and at least four other non-studio courses. The student specializing in studio art should elect Visual Arts 207, at least two Level II non-studio courses beyond Visual Arts 207, and six courses in two and three-dimensional studio art. The student choosing a combined major should elect Visual Arts 201, 204, 207, 212, two additional non-studio courses, and two additional studio courses.

The department of visual arts collaborates with other departments in offering combination majors.

Although the department's purpose is to provide liberal, humanistic education rather than professional training, alumnae of the College have found work in all branches of the field: in museums as librarians, docents, directors of education, and curators; in education at all levels; in publishing; in industrial advertising and design; and in creative art.

101 Orientation to the Visual Arts

Introduction to the materials and methods of the visual arts. Designed to develop visual perception and basic understanding of the expressive possibilities of visual structures. Laboratory explorations in two and three-dimensional structures. No previous experience is assumed. Two hours lecture, four hours laboratory. (Not open to students who have completed Fine Arts 100.)

First semester, repeated second semester. MEMBERS OF THE DEPARTMENT.

201 Antiquity and the Middle Ages

Significant problems in each major cultural period studied in depth to reveal varying approaches, methods, and source materials. Analysis of selected works in the Baltimore area. Prerequisite: Visual Arts 101 (or Fine Arts 100) or junior standing.

First semester. MISS CHAPMAN.

204 Renaissance and Baroque Art

Problems of interpretation of selected monuments of painting, sculpture, and architecture in Western Europe from the late thirteenth to the mid-eighteenth centuries. The historical milieu in which works were produced and the relationships between stylistic developments, changing aesthetic ideals, and technical innovations during the period. Prerequisite: Visual Arts 101 (or Fine Arts 100) or junior standing.

Second semester. MR. VAN SCHACK.

207 The Visual Arts Since 1750: The New Tradition

The emergence of new modes and new attitudes in painting, sculpture, architecture, and the minor arts. Brief examination of neoclassicism, romanticism, realism, and impressionism followed by more intensive study of the arts since 1885. Prerequisite: Visual Arts 101 (or Fine Arts 100) or junior standing.

First semester. MISS HENRY.

212 Visual Structures: Media and Methods

Experimental studies in the interaction of line, shape, value, color, and texture in two and three-dimensional structures. Individual exploration and discovery of form, making use of traditional and experimental materials and techniques. Emphasis on the development of visual attitudes leading to understanding visual form in terms of expression and communication. Prerequisite: Visual Arts 101 (or Fine Arts 100). Six hours studio, lecture, critique, with supplementary studies. (Not open to students who have completed Fine Arts 110.)

First semester, repeated second semester. MR. BROWN, MR. RISLEY.

221 Two-Dimensional Structures: Studio I

Advanced experimental studies in the function of line and color in two-dimensional structures. Studies in perceptual and conceptual form with emphasis on color interaction and analytical cubist space. Exploration of drawing, painting, and collage media. Prerequisite: Visual Arts 212 (or Fine Arts 110) and permission of the instructor. Six hours studio, lecture, critique, with supplementary studies.

First semester. MR. BROWN.

222 Two-Dimensional Structures: Studio II

Emphasis on graphic processes, including drawing and printmaking media. Exploration of traditional and experimental techniques; form analyses of masterworks. Increasingly individual work in terms of visual ideas and images.

Prerequisite: Visual Arts 221 and permission of the instructor. Six hours studio, critique, and supplementary studies.
Second semester. MR. BROWN.

223 Two-Dimensional Structures: Studio III

The development of individual pictorial ideas. Intensive exploration of perceptual and conceptual color-form. Analysis of style in traditional and contemporary painting. Exploration of painting media. Prerequisite: Visual Arts 222 and permission of the instructor. Six hours studio, lecture, critique, and supplementary studies.
First semester. MR. BROWN.

224 Two-Dimensional Structures: Studio IV

The development of a sustained pictorial idea executed in one or several two-dimensional media. A high level of individuality and accomplishment is expected. Prerequisite: Visual Arts 223 and permission of the instructor. Six hours studio and critique with individually assigned supplementary studies.
Second semester. MR. BROWN.

226 Three-Dimensional Structures: Studio I

Experimental studies of some of the theories and techniques of three-dimensional organization. Studies in construction with emphasis on the interaction of form and space. Prerequisite: Visual Arts 212 (or Fine Arts 110). Six hours studio, lecture-demonstration, and critique with supplementary studies.
First semester. MR. RISLEY.

227 Three-Dimensional Structures: Studio II

The techniques of sculptural expression and how they influence form. Increasingly critical and creative individual development. Prerequisite: Visual Arts 226. Six hours studio, lecture-demonstration, and critique with supplementary studies.
Second semester. MR. RISLEY.

228 Three-Dimensional Structures: Studio III

Studies at an advanced level with the expectation of relatively complex conceptions with solutions realized in experimental techniques. Prerequisite: Visual Arts 227 and permission of the instructor. Six hours studio, critique, and supplementary studies.
First semester. MR. RISLEY.

229 Three-Dimensional Structures: Studio IV

High level of individuality and accomplishment expected; ability to conceive and sustain complex sculptural ideas demanded. Prerequisite: Visual Arts 228 and permission of the instructor. Six hours studio, individual critiques, and specially assigned supplementary studies.
Second semester. MR. RISLEY.

STUDIES IN GRAECO-ROMAN ART

Selected topics in the art of the Mediterranean area, 600 B.C. to 400 A.D.

230 Architectural Sculpture of the Greeks

Prerequisite: Visual Arts 201 (or Fine Arts 102), or Visual Arts 101 (or Fine Arts 100) and junior standing.
Second semester. MISS CHAPMAN.
 Offered 1970-71.

231 Hellenistic Art

Prerequisite: Visual Arts 201 (or Fine Arts 102), or Visual Arts 101 (or Fine Arts 100) and junior standing.
Second semester. MISS CHAPMAN.
 Offered 1971-72.

232 The Augustan Period

Prerequisite: Visual Arts 201 (or Fine Arts 102), or Visual Arts 101 (or Fine Arts 100) and junior standing.
Second semester. MISS CHAPMAN.
 Offered 1972-73.

STUDIES IN MEDIEVAL ART

Detailed study of a specific style, a particular type of art monument, or a particular problem in the early Christian through Gothic period.

235 Early Gothic Art and the Mosan Tradition

Investigation of the relation of selected art monuments to their cultural milieu. Prerequisite: Visual Arts 201 (or Fine Arts 102), or Visual Arts 101 (or Fine Arts 100) and junior standing.

Second semester. MISS CHAPMAN.

Offered 1970–71.

236 Early Christian Art and the Late Antique Tradition

Investigation of selected art monuments and their relation to their cultural milieu. Prerequisite: Visual Arts 201 (or Fine Arts 102), or Visual Arts 101 (or Fine Arts 100) and junior standing.

Second semester. MISS CHAPMAN.

Offered 1971–72.

237 Carolingian Art

Investigation of the relation of selected art monuments to their cultural milieu. Prerequisite: Visual Arts 201 (or Fine Arts 102), or Visual Arts 101 (or Fine Arts 100) and junior standing.

Second semester. MISS CHAPMAN.

Offered 1972–73.

STUDIES IN EARLY NETHERLANDISH PAINTING

Studies of a particular artist, school, or medium: sources, workshop, and influence.

241 Jan van Eyck

Prerequisite: Visual Arts 204 (or Fine Arts 103), or Visual Arts 101 (or Fine Arts 100) and junior standing.

First semester. MISS CHAPMAN.

Offered 1970–71.

242 Albrecht Dürer

Prerequisite: Visual Arts 204 (or Fine Arts 103), or Visual Arts 101 (or Fine Arts 100) and junior standing.

First semester. MISS CHAPMAN.

Offered 1971–72.

243 Fifteenth Century Manuscript Illumination

Prerequisite: Visual Arts 204 (or Fine Arts 103), or Visual Arts 101 (or Fine Arts 100) and junior standing.

First semester. MISS CHAPMAN.

Offered 1972–73.

STUDIES IN ITALIAN RENAISSANCE ART

Intensive study of specific stylistic, iconographic, and historical problems of the art of the Renaissance and Mannerist periods in Italy.

246 Central Italian Art of the Thirteenth and Fourteenth Centuries

Special emphasis on the innovations of Cimabue, Giotto, Duccio, Simone Martini, and the Lorenzetti. Prerequisite: Visual Arts 204 (or Fine Arts 103), or Visual Arts 101 (or Fine Arts 100) and junior standing.

First semester. MR. VAN SCHAAK.

Offered 1970–71.

247 Florentine and Venetian Art of the Quattrocento

Prerequisite: Visual Arts 204 (or Fine Arts 103), or Visual Arts 101 (or Fine Arts 100) and junior standing.

First semester. MR. VAN SCHAAK.

Offered 1971–72.

248 The Masters of the High Renaissance

Leonardo, Giorgione, Raphael, Bramante, and Michelangelo. Prerequisite: Visual Arts 204 (or Fine Arts 103), or Visual Arts 101 (or Fine Arts 100) and junior standing.

First semester. MR. VAN SCHAACK.

Offered 1972-73.

STUDIES IN BAROQUE ART

Selected problems in seventeenth century painting, sculpture, and architecture.

250 Seventeenth Century Art in the Low Countries

Painting, sculpture, and architecture. Special attention to the development of genre painting. Prerequisite: Visual Arts 204 (or Fine Arts 103), or Visual Arts 101 (or Fine Arts 100) and junior standing.

Second semester. MR. VAN SCHAACK.

Offered 1970-71.

253 Development of the Baroque Style in Rome

The Carracci, Caravaggio, and Bernini. Prerequisite: Visual Arts 204 (or Fine Arts 103), or Visual Arts 101 (or Fine Arts 100) and junior standing.

Second semester. MR. VAN SCHAACK.

Offered 1971-72.

254 French and English Art of the Seventeenth and Early Eighteenth Centuries

Prerequisite: Visual Arts 204 (or Fine Arts 103), or Visual Arts 101 (or Fine Arts 100) and junior standing.

Second semester. MR. VAN SCHAACK.

Offered 1972-73.

STUDIES IN MODERN ART

Intensive study of particular aspects of modern art.

260 Classicism, Romanticism, and Realism

Prerequisite: Visual Arts 207 (or Fine Arts 103), or Visual Arts 101 (or Fine Arts 100) and junior standing.

Second semester. MR. JOHNSON.

Offered 1972-73.

261 Impressionism and Post-Impressionism

Prerequisite: Visual Arts 207 (or Fine Arts 103) or Visual Arts 101 (or Fine Arts 100) and junior standing.

Second semester. MISS HENRY.

Offered 1970-71.

262 Twentieth Century Art

Prerequisite: Visual Arts 207 (or Fine Arts 103), or Visual Arts 101 (or Fine Arts 100) and junior standing.

Second semester. MR. JOHNSON.

Offered 1971-72.

263 The Afro-American in the Visual Arts

The American Negro's involvement in the arts as a reflection of his condition. An examination of projections as they act upon the Afro-American and are reacted to by him through a wide range of ideas, concepts, and media loosely designated as visual art. Prerequisite: Visual Arts 101 (or Fine Arts 100). May not count towards the major.

Second semester. MR. LEWIS.

STUDIES IN NINETEENTH AND TWENTIETH CENTURY ARCHITECTURE

Studies in the changing aesthetic theories and stylistic developments of Western European and American architecture from the neoclassic period to the present.

265 Nineteenth Century Architecture: The Chicago Style

Prerequisite: Visual Arts 207 (or Fine Arts 103), or Visual Arts 101 (or Fine Arts 100) and junior standing.

First semester. MR. VAN SCHAACK.

Offered 1970-71.

266 Architecture: Development of the International Style

Prerequisite: Visual Arts 207 (or Fine Arts 103), or Visual Arts 101 (or Fine Arts 100) and junior standing.

First semester. MR. VAN SCHAACK.

Offered 1971-72.

269 The Architecture of Baltimore

Prerequisite: Visual Arts 207 (or Fine Arts 103), or Visual Arts 101 (or Fine Arts 100) and junior standing.

First semester. MR. VAN SCHAACK.

Offered 1972-73.

271 The Art of the Film

Critical examination of the nature, methods, and modes of the art of the motion picture as exemplified in selected fictional, documentary, and experimental works, both foreign and American. Visual Arts 207 (or Fine Arts 103) recommended as prerequisite to 271. Not open to freshmen. (Not open to students who have completed Fine Arts 287.)

First semester. INSTRUCTOR TO BE APPOINTED.

275 History of the Film I: Beginnings to 1945

The emergence of the art of the film as exemplified in a limited selection of works. Prerequisite: Visual Arts 271 (or Fine Arts 287). (Not open to students who have completed Fine Arts 288.)

Second semester. INSTRUCTOR TO BE APPOINTED.

276 History of Film II: 1945 to the Present

Major developments and masters in the history of film since 1945: neo-realism, the new wave, personal cinema.

Emphasis on the work of such filmmakers as Bergman, Fellini, Antonioni, Welles, Truffaut, Resnais, Goddard, Penn, Brakhage. Prerequisite: Visual Arts 271 (or Fine Arts 287). (Not open to students who have completed Fine Arts 288.)

First semester. MR. JOHNSON.

Not offered 1970-71.

278 Elementary Film Production

Exploration of the materials, tools, and processes of filmmaking. Prerequisite: Visual Arts 271 (or Fine Arts 287 or 288). (Not open to students who have completed Fine Arts 225.)

Second semester. MR. JOHNSON.

Not offered 1970-71.

321 Studio Seminar: The Visual Artist in the Twentieth Century

Topics to be determined by the students and the staff. Suggested topics for 1970-71: geometry in the visual arts; color environments: the influence of technology in visual structures. Prerequisite: Permission of the studio staff.

Second semester. STUDIO STAFF.

326 Independent Studio Critiques

Independent study projects in any two or three-dimensional media. Four critiques conducted by the studio staff are held during the semester. Prerequisite: completion of requirements for studio concentration or permission of the studio staff.

First semester. STUDIO STAFF.

395 Integrative Exercises for Senior Majors

First semester, repeated second semester. MEMBERS OF THE DEPARTMENT.

WORLD LITERATURE

The offerings in world literature provide the student with the opportunity to enlarge her knowledge in such fields as classics, English, modern languages, and philosophy through courses touching upon more than one discipline, more than one literary and cultural heritage, or literary and cultural traditions not otherwise accessible. They include courses frequently referred to as comparative literature and literature in translation.

Comparative literature courses are those which explore (1) the interrelation of several modern literatures or the classical influences upon one or more modern literatures; (2) the main currents, ideas, periods, movements or genres of more than one literary tradition. These courses, although taught in English, assume the ability to read and do research in at least one foreign language.

Literature-in-translation courses, which may achieve some of the same goals as comparative literature courses, are offered in recognition of the fact that even the linguistically talented student is unlikely, at the undergraduate level, to be able to master more than two foreign languages and that most students will achieve reading, speaking, and writing ability in only one. To make foreign literatures and cultural traditions accessible to students who do not know the languages involved, a number of courses taught in English, with the reading also done in English, are offered.

211 The Ancient Epic

An approach to the Classical World through its most comprehensive literary form. Readings selected from Homer's *Iliad* and *Odyssey*, Lucretius' *On the Nature of Things*, Vergil's *Aeneid*, Ovid's *Metamorphoses*, Petronius' *Satyricon*, and Apuleius' *Metamorphoses*. (Not open to students who have completed Western Literature 151.)

First semester. MR. SCHMIEL.

Not offered 1970-71.

213 Ancient Drama

Man's perpetual confrontation with fate, god, society, and his own human nature, as depicted in representative plays of the leading Greek and Roman dramatists. Analysis of the structure and myths of classical dramaturgy. Works of the following authors will be read: Aeschylus, Sophocles, Euripides, Aristophanes, Menander, Plautus, Terence, and Seneca.

First semester. MR. NATUNEWICZ.

Not offered 1971-72.

215 Ancient Historiography and Biography

The great events, nations, and personages of the ancient world as depicted in the works of such writers as Herodotus, Thucydides, Polybius, Livy, Tacitus, Plutarch, and Suetonius. Analysis of historical and biographical methodology.

Second semester. MRS. SARBANES.

Not offered 1970-71.

237 The Culture of Latin America

Representative Latin-American literary works studied against the background of the geographical, sociological, and political characteristics of the various regions. Prerequisite: sophomore standing. Not open to students majoring in Spanish. (Not open to students who have completed Western Literature 220.)

Second semester. MR. MONTORO.

Not offered 1971-72.

257 Literature Under Communism

Political, social, and literary functions of Russian literature since the Revolution. A critical reading of such representative authors as Mayakóvsky, Shólokhov, Fédin, A. N. Tolstóy, Leónov, Pasternák, Paustóvsky, Solzhenítsyn. Prerequisite: History 105. (Not open to students who have completed Western Literature 241.)

Second semester. MR. LENTULAY.

Not offered 1971-72.

259 Problems in Russian Literature

Political, ethical, and ideological factors in the development of Russian literature during the nineteenth and early twentieth centuries. Selected readings from Púshkin, Lérmontov, Gógol, Turgénev, Dostoévsky, Chékhov, and Górký. Prerequisite: a college course in literature. (Not open to students who have completed Western Literature 243.)

First semester. MR. LENTULAY.

Not offered 1970-71.

260 Aspects of European Humanism As Seen in French Thought and Literature

The evolution of certain concepts from the Renaissance to the present day as seen in some of the classics of French literature, including works by Montaigne, Rabelais, Pascal, Racine, Voltaire, Flaubert, Gide, Malraux, Sartre, and Camus. Man's definition of himself, the meaning he assigns to life, his place in the universe, his relationship to society. Modern visions of the tragic, the comic, the epic, and the heroic, and their permutations. The notion of the Absurd. The possibility of ethics without metaphysics. Prerequisite: junior standing. Not open to students who have completed French 200 or 201. (Not open to students who have completed Western Literature 250.)

Second semester. MR. DONALDSON.

Not offered 1970-71.

261 The Epic Tradition in Later Western Literature

Selections from *Beowulf*, *The Song of Roland*, the *Nibelungenlied*, *El Cid*, Dante's *Commedia*, Cervantes' *Don Quixote*, Milton's *Paradise Lost*, Tolstoy's *War and Peace*, and Kazantzakis' *Odyssey*. Prerequisite: World Literature 211. (Not open to students who have completed Western Literature 152.)

Second semester. MR. PEIRCE.

Not offered 1970-71.

263 Modern European Drama

Masterpieces of Continental, English, and Irish drama. Some attention to changing concepts of theatre, innovations in acting, and production. Emphasis on the work of Ibsen, Strindberg, Chekhov, Pirandello, Shaw. Prerequisite: English 122 or junior standing. Not open to freshmen. (Not open to students who have completed English 272.)

First semester. MR. UMLAS.

264 The Novel Since 1900

Subject matter and technique in the twentieth-century novel. Prerequisite: English 141 (or 140) or junior standing. Not open to freshmen. (Not open to students who have completed English 274.)

Second semester.

Not offered 1970-71.

269 The Classical Tradition: Backgrounds of Modern Literature

Literary forms and myths of Greece and Rome, with parallel readings in later Western literature. (Not open to students who have completed Western Literature 162.)

First semester. MR. PEIRCE.

Not offered 1970-71.

270 Aspects of African Humanism

A panorama of African literature by black and white authors writing in English and French. Black Africa's transition from an oral to a written literature with an examination of the interaction of European and indigenous influences. The reflection of social and political problems and aspirations: detribalization, the *évolué*, Pan-Africanism. The emergence of the concepts of *négritude* and the Third World. Afro-Caribbean literary and cultural relations. Some African influences on contemporary European art and literature. Prerequisites: French 200 or 201, and junior standing.

First semester. MR. DONALDSON.

Not offered 1971-72.