1965

Bryn Mawr College College Catalogue and Calendar, 1965-1967

Bryn Mawr College

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THE GRADUATE DEPARTMENT OF
SOCIAL WORK AND
SOCIAL RESEARCH
1965 / 1967

BRYN MAWR COLLEGE
Graduate Department of
SOCIAL WORK
and
SOCIAL RESEARCH
of Bryn Mawr College
1965/1967
Correspondence regarding admission to the Graduate Department of Social Work and Social Research should be addressed to the Director of the Department, 815 New Gulph Road, Bryn Mawr College, Bryn Mawr, Pennsylvania, 19010.
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The Carola Woerishoffer Graduate Department of Social Work and Social Research offers a basic two-year program leading to the degree of Master of Social Service, and an advanced program leading to the degree of Doctor of Philosophy.

The Master's degree program is based upon the premise that preparation for social work practice and research requires a core of knowledge as well as skill in the application of this knowledge. A coordinated curriculum of concurrent courses and field instruction is provided.

The Doctor of Philosophy program is planned to broaden the student's knowledge of social welfare in general, and, through intensive research, to deepen his knowledge in one field in particular. The curriculum is intended for full-time study, however, a few courses may be opened for part-time study to holders of a Master's degree from an accredited school of social work.
The Trustees of Bryn Mawr College

J. Edgar Rhoads, President

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**James Wood**

**Lelia Woodruff Stokes**

**Katharine Elizabeth McBride**

**Eleanor Little Aldrich**

**Doreen Canaday Spitzer by invitation**

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Charles P. Cella, Jr.
Edward H. DaCosta
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Mrs. Roger Scattergood
Mrs. Karl R. Schoettle
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Miss Katharine E. McBride
Mrs. Katherine D. K. Lower
Miss Ellenor Morris
Mrs. Francis L. Pell
Mrs. William Tumarkin

Officers of the College

President of the College:
Katharine Elizabeth McBride, Ph.D., LL.D., L.H.D., Sc.D.
Office: Taylor Hall.

Dean of the Graduate School:
Eleanor A. Bliss, Sc.D. (1965-6)
Office: The Library.
Elizabeth Read Foster, Ph.D.
Graduate Dean-elect

Director, Graduate Department of Social Work and Social Research:
Katherine D. K. Lower, Ph.D.
Office: 815 New Gulph Road.

College Physician:
Pearl S. Pitt, M.D.
Office: The Infirmary.

Librarian:
Janet Margaret Agnew, B.L.S., M.A.
Office: The Library.
Faculty and Teaching Staff

Carola Woerishoffer Graduate Department of Social Work and Social Research

Katherine D. K. Lower, Professor of Social Work and Social Research and Director of the Department
B.A., M.A., Ph.D., Wisconsin

Bernard Ross, Professor of Social Work and Social Research
A.B., Oregon; M.Sc. (Soc. Adm.), Pittsburgh; Ph.D., Michigan

Louis Goldstein, Associate Professor of Social Work and Social Research
B.S.S., College of the City of New York; M.A., New York University; Ph.D., Minnesota

Jean Haring, Associate Professor of Social Work and Social Research
A.B., Albion; M.A., Ohio State; M.S.W., Michigan

Philip Lichtenberg, Associate Professor of Social Research
B.S., M.A., Ph.D., Western Reserve

Jeanne C. Pollock, Associate Professor of Social Work and Social Research
B.S., M.S.W., Pennsylvania

Kurt Reichert, Associate Professor of Social Work and Social Research
B.A., Carleton; M.A., Chicago; Ph.D., Minnesota

Martin Rein, Associate Professor of Social Work and Social Research
B.A., Brooklyn; M.S.S.W., Columbia; Ph.D., Brandeis

Jane C. Kronick, Assistant Professor of Social Research
A.B., Barnard; M.S., Ph.D., Yale

William W. Vosburgh, Assistant Professor of Social Research
B.A., Ph.D., Yale; M.A., University of California at Los Angeles

Greta Zybon, Assistant Professor of Social Work and Social Research
B.A., Syracuse; M.S.W., Buffalo; D.S.W., Western Reserve
PATRICIA M. BURLAND, Lecturer in Social Work
A.B., Smith; M.S.S., Bryn Mawr

RUTH O. STALLFORT, Lecturer in Social Work
B.S., M.S., Simmons

JAMES HUDSON, Research Associate
B.A., Columbia; M.A., Ph.D., Michigan

ELIZABETH L. PINNER, Instructor in Social Work
B.A., Bucknell; M.S.W., Pittsburgh

EDMUND SHERMAN, Instructor in Social Work
B.A., M.S.S., Buffalo

LILLER P. GREEN, Field Instruction Consultant
B.A., Morgan State; M.S.S., Bryn Mawr

EDNA ROBINSON KELLY, Field Instruction Consultant
A.B., Ohio State; M.S.S., Bryn Mawr

JOYCE LEWIS, Field Instruction Consultant
A.B., Gettysburg; M.S.S., Bryn Mawr

ERMA C. METZ, Field Instruction Consultant
A.B., Bucknell; M.S., Pennsylvania State; M.S.S., Bryn Mawr

EMILY MCNEW WILLIAMS, Field Instruction Consultant
A.B., M.S.W., Indiana

DOLORES G. NORTON, Teaching Assistant
A.B., Temple; M.S.S., Bryn Mawr

VIVIAN C. SELTZER
B.A., Minnesota; M.S.W., Pennsylvania

________________________________________________________________________

RACHEL D. COX, Ph.D., Professor of Education and Psychology

EUGENE V. SCHNEIDER, Ph.D., Professor of Sociology

O. EUGENE BAUM, M.D., Special Lecturer in Psychiatric Information

ROBERT J. GAUKLER, M.D., Special Lecturer in Psychiatric Information

A. PAUL HARE, Ph.D., Special Lecturer

OLIVER P. WILLIAMS, Ph.D., Special Lecturer in Political and Governmental Processes
History of the Department

The Graduate Department of Social Work and Social Research was opened in the fall of 1915 as a tribute to Carola Woerishoffer, a Bryn Mawr graduate of the Class of 1907. In announcing this new Department, the President of Bryn Mawr College, M. Carey Thomas, stated: "This Department will be known as the Carola Woerishoffer Graduate Department of Social Economy and Social Research in order to associate in a fitting and lasting way with Bryn Mawr College, to whose endowment she so generously contributed, the name of Carola Woerishoffer."

The Department opened with eight graduate students; no undergraduates were admitted. Under the initial plan, two-thirds of the student's time was given to the study of theory and statistics, the remaining third to "practical investigation," with a half year spent in residence in a social service institution or in a social welfare organization in Philadelphia or New York.

The course of study was planned for one, two, or three years, with three years required for the Ph.D. degree and one and two years for a certificate. The Master of Social Service degree replaced the two-year certificate in 1947.

The Graduate Department of Social Economy and Social Research was the first graduate program of social work education to be offered by a college or university. Its plan of "field work" and its inclusion of work in labor and industrial relations and community organization made it somewhat different from the other early schools of social work; it was nonetheless a program of study for social work. Under its first director, Dr. Susan M. Kingsbury, four fields of study were offered: Community Organization, Social Case Work, Industrial Relations, and Social and Industrial Investigation. Included among the organizations offering field work for students of the Department in these early days were: The Family Society of Philadelphia, The Children's Aid, the White Williams Foundation, the Big Sister Association, the Young Women's Christian Association, the Criminal Division of the Municipal Court of Philadelphia, the Social Services Department of the University of Pennsylvania Hospital, and various settlements.
In 1919 the Department became one of the six charter members of the American Association of Schools of Social Work. In this period following World War I, social work education was rapidly changing in response to the continuous expansion of social work into new settings. The curricula of the schools, including that of Bryn Mawr, responded to these changes in a variety of ways. At Bryn Mawr, preparation for social case work was expanded and additional courses in public welfare and social legislation were offered. The emphasis on research and social investigation which was central to the early curriculum of the Department continued.

Bryn Mawr had the first doctoral program in social work education, which was soon followed by the doctoral program at the School of Social Service Administration at the University of Chicago. Today twelve schools offer such programs.

By 1935 Bryn Mawr was one of twenty-nine schools belonging to the American Association of Schools of Social Work, of which twenty-five were in colleges or universities and only four were independent schools. The precedent set by Bryn Mawr in 1915 in establishing social work as graduate study in an institution of higher learning has now become a requirement for accreditation by the current accrediting body, the Council on Social Work Education, successor to the American Association of Schools of Social Work.

The Department at Bryn Mawr grew gradually from eight students in 1915 to forty-two full-time students in 1955, forty years later. Since 1955 it has more than doubled in size, currently having more than ninety full-time students. A number of factors have contributed to this expansion: the acquisition of a separate building for the exclusive use of the Department, thus making it possible to admit a larger number of students; increased Federal support for education for social work, especially scholarship aid in the form of traineeships; and the continuing support of social agencies in the metropolitan area of Philadelphia in providing field instruction opportunities.

Now, fifty years later, there are sixty-seven schools accredited by the Council on Social Work Education in the United States, and new schools are being founded each year. Although many changes have taken place both at Bryn Mawr and in social work education, the vision of those responsible for the design of the Department at its
founding has been proven by experience to have been remarkably correct.

The Department now has approximately six hundred living graduates, of whom three-fourths are holders of the M.S.S. degree. Twenty-nine Ph.D. degrees have been awarded. At the time of its founding, the Department admitted only women; since the late 1930's men have been admitted, and during the last five years men have constituted about thirty per cent of the graduates.

Graduates of the Department are located in all regions of the United States and many foreign countries. Their present positions vary, of course, with the length of time since their graduation. They are substantially represented in family services, psychiatric services, child welfare and community services. Approximately forty-five per cent are executives, supervisors, or consultants. Recipients of the doctoral degree are chiefly in teaching and research positions. Over the course of its fifty years the Department can claim that its graduates have contributed to leadership in both public and private social services.
Admission

The Graduate Department of Social Work and Social Research at Bryn Mawr College is open to qualified graduates in liberal arts from colleges or universities of acknowledged standing. Application for admission, to be made to the Director of the Department, should be accompanied by a copy of the student's full academic record. Letters from the Dean and from two or more professors of the applicant's undergraduate college are required and will be requested by the Department.

A personal interview is arranged with a member of the faculty of the Department or with an appropriate person near the residence of an applicant living a considerable distance from Bryn Mawr. Admission to the Graduate School does not automatically qualify a student to become a candidate for an advanced degree. Students whose courses of study meet the requirements may, on application to the Graduate Committee, be enrolled as candidates for the degrees of Master of Social Service or Doctor of Philosophy.

Men as well as women are admitted to the Graduate School and are accepted as candidates for the degrees of Master of Social Service and Doctor of Philosophy.

Within ten days after official notice of admission to the Department of Social Work and Social Research, the enrollment or admission fee of $20 is to be paid to the Comptroller of Bryn Mawr College. If the student withdraws before June 1st half the fee, namely $10, will be refunded.

Submission of the Miller Analogies Test is required as supplementary evidence of qualifications. The student will be given instructions concerning the test after his application has been received by the Department.
TRANSFER CREDIT

Transfer credit, amounting to one year of the program for the M.S.S., may be allowed for work done at other accredited schools. Such transfer credit will not be given until the candidate has completed a semester’s work at Bryn Mawr. In each case transfer credit must be recommended by the Department.

For the Ph.D. degree, candidates must be in residence in the Graduate School at Bryn Mawr at least two years (or one year for Bryn Mawr graduates). Part of the work for the Ph.D. may be done at other institutions.

RECIROCITY WITH THE UNIVERSITY OF PENNSYLVANIA

Courses at the University of Pennsylvania are available to graduate students at Bryn Mawr College. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the University is limited to the equivalent of one unit per year. Under the Reciprocal Plan the procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr. Students considering enrollment at the University should note that the academic year begins earlier than at Bryn Mawr. The University charges a small general fee for the use of the Library, a $5.00 library deposit, which is refundable, and fees for lateness. Students who plan to take a course at the University should complete their Bryn Mawr registration and obtain their letters of introduction in time to register before the opening of the semester at the University.
Programs and Degrees

Bryn Mawr College awards the degrees of Master of Social Service and Doctor of Philosophy in the Department of Social Work and Social Research.

THE DEGREE OF MASTER OF SOCIAL SERVICE

The program for the M.S.S. degree is designed to prepare graduates for Social Casework and Community Organization. Two academic years of full-time study are required. The degree represents the completion of a coordinated program of courses and field instruction. In the program in Social Casework, provision is made for field instruction in the following: Child Welfare, Family Welfare, Medical and Psychiatric Social Work, Vocational Rehabilitation, School Social Work, Mental Retardation and Corrections. In Community Organization field instruction is possible in Community Welfare Research and Planning, Neighborhood Organization, Urban Renewal, Intergroup Relations, and Community Mental Health.

Prerequisites. The prerequisite for the M.S.S. degree is an A.B. degree or its equivalent from a college or university of recognized standing in the United States, or a degree or certificate of the same standard from a foreign university. An undergraduate major in one of the social sciences or the humanities with some work in the social sciences is usually required, although in exceptional cases this requirement may be waived. There are no language requirements for the M.S.S. degree. All first-year M.S.S. students must pass an examination in statistical concepts given at the end of the non-credit course, Introduction to Statistical Concepts.

Program of Work. The basic first-year program is similar for all students except that the student selects either casework or community organization as the principal course in social work practice. The first-year courses are:
Social Casework I and II

or

Community Organization I and II

Human Behavior and the Social Environment I and II

Social Welfare Policy and Services I and II

Social and Cultural Concepts in Social Work Practice

Social Research

Introduction to Statistical Concepts (non-credit)

Field Instruction I and II

The courses in the second year are in part determined by the principal area of practice of the student:

Social Casework III and IV

or

Community Organization III and IV

Social Agency Administration

Social Issues and Social Policy

Social Group Work

Psychoanalytic Concepts in Social Work Practice

Political and Governmental Processes

Thesis Seminar

Field Instruction III and IV

In addition second-year students who have had Casework I and II in the first year will take a one semester course in Community Organization in the second year; those who have had Community Organization I and II will take a one semester course in Casework.

Requirements for Degree. Candidates for the degree of Master of Social Service must have completed the two-year program of study consisting of a minimum of eighteen semester courses or the equivalent in full-year courses including field instruction; they must prepare a Master’s paper and pass a final examination which tests the ability to place their special fields in the general background of social work.

SPECIAL PART-TIME PROGRAM

It is possible for students for the Master’s degree to extend the two-year program to three years. The usual pattern is to complete the first graduate year’s requirements over a period of two years on a part-time basis, and to complete the second year’s requirements during the third year on a full-time basis.
THE DEGREE OF DOCTOR OF PHILOSOPHY

The curriculum of the doctoral program provides a program of study from which a person may enter one of many careers, depending upon the changing needs and opportunities in the field and the interests and capabilities of the individual. Preparation for research and teaching are central to the goals of the program. Development of a variety of research competencies is encouraged; preparation for teaching in all areas of the social work curriculum, whether for graduate or undergraduate curricula, is also provided. Study for practice, whether in casework, community organization, administration, research or development of social policies and programs, emphasizes theoretical work.

The candidate for the Ph.D. degree should have ability of a high order, intellectual curiosity and critical judgment, independence, a broad general education, a Master's degree and experience in social work, and the determination needed to carry through an exacting program.

The program is planned to broaden the student's knowledge of social welfare in general and, through intensive research, to deepen his knowledge in one field in particular. The curriculum includes the following areas of study:

- Social Welfare
- Theory in Social Work Practice
- Social and Behavioral Sciences
- Social Research

Preparation in these four areas is implemented through required courses in each of the areas, accounting for about one-half of the program; electives pertinent to individual interests of students account for the other half. Electives may be taken in other departments within the College or at the University of Pennsylvania; and special experiences are directed toward specific career goals, including teaching assistantships and research assistantships. Candidates select a major field within one of the four areas of the curriculum and allied fields from the other areas. Qualified students may participate in various phases of research in social work under the direction of members of the faculty, engaged in a variety of research studies.
General Requirements. The general requirements for the Ph.D. degree are:

1. An undergraduate preparation in major and allied fields which is satisfactory to the Department.

2. A course of study requiring a minimum, which will usually be exceeded, of three full years of graduate work in major and allied fields; two of these years (or for graduates of Bryn Mawr College, one) must be spent in the Graduate School of Bryn Mawr College. Candidates are strongly advised to complete at least seven units of graduate work.

3. The acceptance of the student as a candidate by the Director of his or her work, by the Department and by the Graduate Committee.

4. A reading knowledge of French (or in special cases another modern foreign language approved by the Department) tested by a written examination in the translation of texts in the field of the major subject.

5. A working knowledge of statistics. The specific statistics requirement may be met either by passing a written examination or by taking courses in statistics.

6. A satisfactory Preliminary Examination. This examination is intended to test the candidate's general knowledge in the major and allied fields rather than familiarity with particular courses.

7. The preparation of a dissertation judged to be a contribution worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject. It must contain new material, results or interpretations.

8. A satisfactory Final Oral Examination in the special field of the major subject in which the dissertation has been written.

9. The publication of the dissertation in whole or in part in accordance with the general regulations of the Graduate School.

SUMMER WORK

Bryn Mawr has no summer session. Occasionally, however, arrangements can be made for graduate students to continue their research during the summer under the supervision of members of the faculty. Such arrangements are made at the invitation of their instructors. The amount of credit for the work and the tuition fee to be charged depend upon the particular circumstances.
REGISTRATION

Every Graduate Student must register for courses at the office of the Dean of the Graduate School within two weeks after entering the College. Permission to make any change in registration must be received from the Dean of the Graduate School.

Only courses given in the Department of Social Work and Social Research are described in this Bulletin. Unless otherwise noted, courses are for one semester. Description of other courses may be found in the Calendar of the Graduate School.

GRADING

Two grades are given for graduate work, Satisfactory and Unsatisfactory. Occasionally extensions may be given for the completion of work. However, there will be no extension beyond November 1st of the year following that in which the work was due. After November 1st the work will be graded Unsatisfactory or the term Incomplete will remain permanently on the record.

EXCLUSIONS

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.
Courses of Study

PROGRAM FOR THE MASTER OF SOCIAL SERVICE

The Social Services

Social Welfare Policy and Services I: Mr. Rein.

The organization and growth of social welfare as a major social institution is examined from an historical and philosophical perspective. The present structure of social welfare and social work services is analyzed with attention given to the influence of recent economic, social, and demographic trends upon social policy.

Social Welfare Policy and Services II: Mr. Rein.

The nature and scope of contemporary social problems such as poverty, dependency, delinquency, and urban deterioration are analyzed. Competing and alternative theories concerning etiology and modes of intervention are considered. The impact of present services on social problems is evaluated. Attention is given to the processes of social policy formulation.

Social Issues and Social Policy: Mrs. Lower, Mr. Rein, and Visiting Lecturers.

Issues in contemporary social policies are examined by specialists in law, economics, public health, welfare and social work.

Human Behavior and the Social Environment

Human Behavior and the Social Environment I: Mrs. Burland and Special Lecturers.

The development of the individual is presented through examination of the physical, social and psychological circumstances that affect the individual's potential for social functioning. The content emphasizes the opportunities and hazards of each phase of development and the adaptive patterns by which the potential for social functioning is realized or impeded. The course material is presented by psychiatrists, a psychologist and a social worker.
Human Behavior and the Social Environment II: Mrs. Burland and Special Lecturers.

This course is a continuation of the work in the first semester and deals with the range of differences in social functioning. There is examination of physical and mental illness and their connection with impaired social functioning. Emphasis is given to the interrelated effects of illness on the individual, his family and the community, and to implications for treatment and prevention.

Political and Governmental Processes: Mr. Williams.

A course based on selected materials from political science designed to extend the student's understanding of functions and prerogatives of local, state and federal governments. A major focus is the contributions of political science as discipline and theory to community welfare planning and social action.

Psychoanalytic Concepts in Social Work Practice: Mr. Lichtenberg.

This course is designed to increase knowledge and understanding of the dynamics of behavior. Stress is placed upon concepts and orientations from psychoanalytic ego psychology that have special pertinence to social work practice.

Social and Cultural Concepts in Social Work Practice: Mr. Goldstein, Mr. Vosburgh.

This course attempts to increase the student's understanding of the social foundations of individual and group behavior. Emphasis is upon those concepts and facts from social psychology, sociology and cultural anthropology that are especially useful in the practice of social work.

Social Work Practice

Social Casework I: Miss Haring, Mrs. Pollock.

This is an introductory course focusing on the generic processes in social work as applied to casework. Emphasis is placed on the basic principles and concepts relevant to the casework relationship, study and diagnosis. Methods and processes are illustrated through the use of case material.

Social Casework II: Miss Haring, Mrs. Pollock.

Continuation of Social Casework I with further consideration of diagnostic formulation and differential emphasis of agencies in social casework treatment.
Social Casework III: Mrs. Stallfort, Miss Zybon.

An advanced casework course building on the basic study, diagnosis and treatment principles of the two preceding courses. Emphasis is on differential approaches to treatment as determined by differential social diagnosis. Cases from different fields of practice are used to give opportunity for examination of general principles as well as of specific requirements of different fields.

Social Casework IV: Mrs. Stallfort, Miss Zybon.

A continuation of Casework III in which students use cases from their own practice to examine the relationship between differential diagnosis and treatment, and the role and responsibilities of the social caseworker. Current issues and trends in social casework are considered.

Community Organization I: Mr. Reichert.

An introductory seminar on Community Organization practice in social work. Case materials, including student reports on field experiences, are utilized to examine values, concepts and principles of Community Organization. Emphasis is on the relationship of professional practice to the goals, structure and approaches of agencies concerned with community improvement and health and welfare planning. Historical and current trends in agencies are considered.

Community Organization II: Mr. Reichert.

A continuation of Community Organization I. The multiple roles and techniques used by the Community Organization practitioner are analyzed. Attention is given to emerging aspects of practice and to the application of various relevant theories in areas such as organization, social change and decision-making.

Community Organization III: Mr. Ross, Mr. Goldstein.

A seminar on community welfare planning. Study of the functioning of health and welfare planning agencies, including analysis of structure and of the relation of physical and social planning. Current practices and issues concerned with auspices, financing, priorities, citizen participation, accountability and evaluation are considered. Community development is considered in relation to community organization.
Community Organization IV: Mr. Ross.

A seminar on goals, values and theories reflected in practice, with emphasis on content related to field instruction placements of students enrolled. Generic and specific elements of community organization practice are identified in welfare planning and federated financing agencies, housing and urban renewal programs, public health and mental health settings, intergroup relations commissions, neighborhood agencies and other settings.

Social Group Work: Mr. Goldstein, Miss Pinner.

Introduction to principles and practice of social group work as a basic social work method. Emphasis on the role and function of the professional person in relation to groups and their goals, the needs and interests of individual members, and the place of groups in the wider social setting of agency, neighborhood and community.

Administration of Social Agencies: Mr. Reichert.

A seminar concerned with the social agency as a social institution, its organization and administrative processes. Subjects discussed include policy formulation, decision-making, management functions, the role of the staff in administration, principles in personnel management, budgeting and public relations.

Field Instruction I:

Application of basic social work principles and concepts in the field setting. Field instructors carry responsibility for facilitating the student's learning and integration of the total curriculum. Taken collaterally with Casework I and II or Community Organization I and II. Requirement: two days per week, first semester; three days per week, second semester.

Field Instruction II:

Taken collaterally with Casework III and IV, Community Organization III and IV. Requirement: three days per week, first and second semesters.
Social Research

Introduction to Statistical Concepts: Mrs. Kronick.

An introduction to the vocabulary and general concepts of statistics. This is a non-credit course and meets one hour per week.

Social Research: Mr. Vosburgh, Miss Zybon, Mr. Sherman.

An introduction to social research. Within the framework of the principles of scientific method, this course emphasizes the logic of research procedures and the design of proof. The course aims to provide basic skills in formulation of problems and critical analysis of existing research. Concentration upon methods relevant to social work problems.

Thesis Seminar (two semesters): Mr. Vosburgh and Faculty.

A Master's thesis is required of all candidates for the M.S.S. degree. The thesis may be an individual or a group project; it usually requires the collection, analysis and presentation of primary data. Work on group projects is coordinated in a thesis seminar which meets as needed. No course credit is given for the thesis.
PROGRAM FOR THE DOCTOR OF PHILOSOPHY

I SOCIAL WELFARE

History and Philosophy of Social Welfare I: Mr. Rein.

Social welfare in perspective, with emphasis on social and economic changes as reflected in developments of social welfare programs.

History and Philosophy of Social Welfare II: Mr. Rein.

The course will examine national social welfare legislation in such fields as Social Security, housing, public welfare, health, mental health and economic opportunity. Special attention will be given to the philosophical assumptions, historical developments and local implementations of legislation. Underlying policy issues common to a number of fields will be examined.

Community Mental Health: Mr. Lichtenberg.

Attention is directed to an historical study of concern with mental health and mental hygiene and to current directions in community mental health services and programs. Study is made of varieties of mental health services, roles and practices in the past and present; the place of these in society; and the philosophical and ideological principles embodied in them.

II SOCIAL WORK PRACTICE

Advanced Casework Theory: Miss Haring.

A seminar in which the scientific base of casework methods and processes will be examined. Emphasis will be placed on relation of pertinent research findings to current operating assumptions, gaps in knowledge and the present stage of theory building in social work.

Theory in Community Organization: Mr. Ross.

This seminar undertakes to provide a critical analysis of the issues and trends in the conceptualization of community organization and the current status of community organization theory. Applications to three arenas of practice are made: community development and neighborhood organization; interagency program planning, coordination and financing; and more comprehensive social planning in concert with physical and economic planning.

24
Social Administration: Mr. Goldstein, Mr. Reichert.

A seminar concerned with problems of organization, management and human relations in administration with special reference to the relation of administration to policy formulation and the functions in the decision-making process. The approach is analytical rather than descriptive or technical. Discussions and readings are based primarily on case studies drawn from various fields of administration. Participants will each prepare administrative case studies.

Supervision in Social Work: Miss Haring.

This course will relate basic learning theory to the supervisory method. Emphasis will be placed on identifying learning patterns in the student or staff supervisee and the appropriate selection of educational experiences.

The seminar is designed for those with limited supervisory experience. It may be taken for credit at the advanced level by meeting additional requirements.

III SOCIAL AND BEHAVIORAL SCIENCES

Personality Theories and Social Work Practice: Mr. Lichtenberg.

Major theories of personality are examined according to their central concepts and the problems with which they are concerned. Comparison of theories is effected through the study of special issues bearing upon social work practice. Recent research efforts are used to show the direction the theories are taking.

Advanced Psychoanalytic Theory: Mr. Lichtenberg.

Examination of psychoanalysis as a personality theory is made. Selected topics in psychoanalytic theory are studied, with special emphasis on psychoanalysis as ego psychology.

Social Change: Mrs. Kronick.

An examination of major sociological theories of social change with specific attention to change in urban areas and resultant urban problems. Local problems are examined in terms of social change.

Concepts of Mental Health: Mr. Lichtenberg.

Exploration is made of the problems whose resolution depends upon an adequate theory of mental health, the scientific issues posed, the varieties of concepts developed, and intensive evaluation of selected theories of mental health. The social implications of each are traced.
Formal Organizations: Mr. Vosburgh.

Structure and process in large-scale organizations. Starting from basic theories of social organization, the course focuses upon those organizations which are planned to coordinate the efforts of large numbers of persons to accomplish specific goals. Leadership, organizational pathologies and the role of the individual are considered.

IV SOCIAL RESEARCH

Advanced Statistics: Mrs. Kronick.

The objectives are to acquaint the student with the techniques and measures most commonly used in current research, to make the student aware of the assumptions and conditions under which statistical operations are clearly meaningful; and to develop discrimination in the application and interpretation of statistical tests and techniques.

Advanced Research: Mr. Vosburgh.

Study of contemporary methodological approaches to problems in social and behavioral research with application for social work. Intensive coverage of survey research design; case study and clinical method, and design of social experiments.


Review and critical evaluation of representative contemporary research studies in social work and related fields with respect to the function of social work research, problem formulation and research methodology, and trends of social work research as related to practice and theory.

Demographic Analysis: Mrs. Kronick.

Demographic characteristics of the United States and their analysis are studied with principal attention to the components of demographic change and their implications for social welfare. Students present original analyses of trends in contemporary population characteristics and their distribution in the United States.

Supervised Unit in Research: Members of the Department.

Upon invitation of a member of the Department, a student may take a supervised unit in research.

Among the faculty of the Department a variety of research interests and competencies is represented. Some of this faculty research has provided opportunities for research experience for doctoral students and will continue to do so. The current research in which members of the
faculty are engaged includes the following: Research on adoptions; community welfare planning; family life and economic dependency; mental health in public welfare; and evaluation of the helpfulness of a family service agency.

Courses in Related Departments in the Graduate School

Courses in related departments of the Graduate School may be elected as part of the student’s program with the permission of the Department. Examples of such courses are:

Economics
   Comparative Economic Systems
   The Development of Underdeveloped Areas

Education and Child Development
   Advanced Clinical Evaluation
   Problems of Child Development
   Elementary School Counseling
   Developmental Psychology
   Research and Measurement in Education and Child Development
   Adolescent Development

Political Science
   Problems of Public Administration
   The World Community and Law

Psychology
   Human Learning and Thinking
   Comparative Psychology
   Personality
   Perception
   Social Psychology

Sociology
   Sociological Theory
   Social Institutions
   Industrial Sociology

Graduate courses at the University of Pennsylvania are also available for graduate students of Bryn Mawr College. For information regarding the reciprocal arrangement with the University, see the section under Admissions.
Field Instruction

Field Instruction is an integral part of the curriculum for the Master of Social Service degree. A placement is arranged for each student in an agency of good standards. Field Instruction is offered in casework and community organization. The purpose of the field experience is to provide the opportunity for the student to apply the knowledge gained in class and thus to deepen his knowledge and develop skill in its use. It is planned jointly by the agency and the Department in such a way as to give content, sequence and progression in learning. Field instruction runs concurrently with the academic program in order to insure an integration of the content of the two. Except in unusual circumstances the student is placed in a different agency during each year of field instruction.

In a typical program, field instruction for first-year students consists of approximately fourteen hours per week from October through January and twenty-one hours per week from February to May; for second-year students, it consists of twenty-one hours per week for each of the two semesters. Individual arrangements may occasionally be made on the basis of agency and student needs. Field instruction begins approximately ten days after the opening of the academic year.

Students are placed in a number of agencies in the Philadelphia metropolitan area. In most of these agencies, two or more students are placed with agency staff as field instructors. In other agencies a unit of students is under the direction of a field instructor appointed by the Department. Currently, such field instruction units provide field experience in:

- Child Welfare
- School Social Work
- Psychiatric Social Work
- Rehabilitation
- Mental Retardation

Students in casework are placed in the following agencies:

- Association for Jewish Children
- Child Care Service of Delaware County
- Child Study Center of Philadelphia
Child Study Institute of Bryn Mawr College
Children's Aid Society of Pennsylvania
Eastern Pennsylvania Psychiatric Institute, Adult Unit
Eastern Pennsylvania Psychiatric Institute, Children's Unit
Family Service of Delaware County
Family Service of the Main Line Neighborhood
Family Service of Philadelphia
Hospital of the University of Pennsylvania, Department of Social Service
Irving Schwartz Institute for Children and Youth
Jefferson Medical College Hospital, Social Service Department
Lankenau Hospital, Child Guidance Clinic
Montgomery County Board of Assistance
Montgomery County Mental Health Clinics, Inc.
Norristown State Hospital, Social Service Department
Philadelphia General Hospital, Adult Psychiatric Clinic
Philadelphia Psychiatric Hospital, Social Service Department
Sleighton Farm School for Girls
Southern Home for Children
St. Christopher's Hospital, Child Psychiatry Clinic
St. Christopher's Hospital, Clinic for Children with Multiple Neurological Handicaps
Temple University Hospital, Department of Social Work
Veterans Administration Hospital, Social Service Department, Coatesville, Pennsylvania

Community organization field instruction settings include the following:
Citizens' Council on City Planning
Eastern State School and Hospital, Commonwealth of Pennsylvania
Friends Neighborhood Guild
Germantown Settlement
Girl Scouts of Philadelphia
Greater Chester Movement
Health and Welfare Council of Camden County and United Fund of Camden, New Jersey
Health and Welfare Council, Inc., Delaware County District
Health and Welfare Council, Inc., Philadelphia
The Lighthouse
Lutheran Social Mission Society
Mental Health Association of Southeastern Pennsylvania
Office of the Development Coordinator of the City of Philadelphia
Pennsylvania Hospital
Philadelphia Housing Authority
Prison Society of Pennsylvania
Redevelopment Authority of Philadelphia
St. Martha's Settlement
United Fund of the Philadelphia Area
University Settlements
Urban League of Philadelphia
Urban Renewal Administration
Fees and Residence

FEES

The tuition fee for graduate students is $1300 a year, payable one half early in the first semester and the other half early in the second semester.

For students registered for part-time work the fee for each course, seminar, or unit of supervised work is $220 a semester.

Fees for auditors are the same as for students registered in courses for credit.

All students taking courses which require field instruction are charged a fee of $10 a semester for each such course taken during the academic year. In addition, students are required to meet their travelling and incidental expenses while working in the field during the academic year and vacations.

The graduation fee for Doctors of Philosophy and Masters of Social Service is $20.00.

SUMMARY OF EXPENSES FOR THE ACADEMIC YEAR

Tuition Fee ................................................................. $1300
Residence Fee at Graduate Center
   (including health service) ........................................... 1000
Dispensary Fee (for non-resident students) ......................... 25
   and other materials .................................................. 5
Field Instruction Fee ................................................... 20
Graduation Fee ............................................................ 20
Expenses, Christmas and spring vacations,
   commuting to field instruction, books .......................... variable

Students whose fees are not paid before November 15th the first semester and before March 15th in the second will not be permitted to continue in residence or to attend their classes. No reduction of the tuition fee will be made on account of absence, withdrawal, dismissal or for any other reason.

The Office of the Recorder will supply on request one transcript of the record of each graduate student free of charge. For additional transcripts a charge of $1.00 each will be made.
The Graduate Center

Residence for forty-five women graduate students is provided in the Graduate Center, which lies at the north end of the campus about an eight-minute walk from the Library. There is a separate room for each student; meals and health service are included in the residence charge.

The bedrooms are fully furnished except for curtains. Bed linen, including blankets, is provided but students should bring their own towels. Because of College fire regulations, smoking is not permitted in the bedrooms.

Application for a room should be made as early as possible. A room-contract, which will be sent on request, must be signed and returned, with the registration fee of ten dollars, to the Dean of the Graduate School. The amount of this fee will be deducted from the residence fee. The registration fee will not be refunded under any circumstances. A student in residence or a new student who cancels her reservation after September 1st prevents some other student from obtaining accommodation. Therefore, unless a student sends notice of withdrawal in writing to the Dean of the Graduate School before September 1st, she is responsible for that portion of the residence charge which the College loses by reason of her withdrawal, whether she fails to occupy the room at all or vacates it during the year. Appropriate reduction or remission is made for that portion of the residence fee which represents reduced expense to the College for food; a further remission or reduction is made if the College is able to reassign the student's room to some other student not previously in residence. The student herself is not entitled to dispose of the room she leaves vacant. In cases of absence from the College extending over six weeks or more, owing to illness, there will be a proportionate reduction in the charge for the cost of food.

3 Residence in the Graduate Center is sometimes not convenient for students in field instruction because of regulations concerning meals and vacation periods. Students are advised to consider these factors in choosing living accommodations.
The regular charge for residence (room, board and health service) for graduate students is $1000 a year, payable one half early in the first semester and the other half early in the second semester.

Residence in the Graduate Center is for the academic year only — from the opening of college until Commencement Day. All college residence halls are closed during the Christmas vacation but accommodations in the neighborhood can usually be secured by graduate students who are required to continue their work. During the spring vacation one hall of residence is kept open and graduate students may occupy rooms in it at a fixed rate. Baggage will not be accepted at the College before September 15th. It should be sent prepaid, addressed to the Graduate Center.

There is no hall of residence for men. They and other non-resident students must make their own living arrangements. Lists of accommodations may be seen in the Comptroller's Office.
Fellowships and Scholarships

A VARIETY OF FINANCIAL RESOURCES is available for full-time students in the Department of Social Work and Social Research. The terms of the various awards differ and will be discussed with the applicant at the time of the admission interview. Both merit and need are factors to which consideration is given. The Department makes every effort to locate the financial aid best suited to the applicants' needs. Application for awards other than those of Bryn Mawr College may be made up to May 1st preceding the academic year for which they are desired.

Application for fellowships and scholarships in the award of Bryn Mawr College should be made to the Director of the Department of Social Work and Social Research and must be filed not later than February 1st preceding the academic year for which they are desired. Awards are announced each year on April 1st. Original papers and documents, sent by applicants in support of their applications, can be returned only if postage is enclosed for that purpose, or specific instructions are given for return by express. Letters from professors and instructors and other individuals are filed for reference.

All Fellows and Scholars must devote full time to graduate work, and pay tuition of $1300 plus a field instruction fee of $20. Women Scholars in their first year at Bryn Mawr must live at the Graduate Center. Others may elect to do so.

BRYN MAWR GENERAL FELLOWSHIPS AND SCHOLARSHIPS

The Department of Social Work offers the Carola Woerishoffer Fellowship, value $2800, and one or two scholarships, value $2100. The fellowship is open to women who have completed a full year of graduate work and is intended for a student in the doctoral program. Scholarships are open to women who hold the A.B. degree or its equivalent from a college or university of recognized standing.
The College has several scholarships of $2100 which are open to men or women for study in any department.

Tuition scholarships, $1500, are available to men and women whose homes are in the Philadelphia area, to men and women interested in preparation in the field of Community Organization, and to other qualified students.

UNITED STATES DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

The National Institute of Mental Health, the Vocational Rehabilitation Agency and the Children's Bureau of the United States Department of Health, Education and Welfare make available to the Department funds for traineeships which cover tuition and an annual stipend to be paid to the student. These traineeships vary with the year of study and the particular programs for which they are provided. The career goals of the student are an important factor in the awarding of these traineeships to individual students. For new students, application for such traineeships should be made at time of application for admission. No application form for these traineeships is necessary. Applicants should, however, state their career goals and their financial needs at the time of application. These may then be discussed during the admission interview.

DOCTORAL PROGRAM

The National Institute of Mental Health of the Public Health Service provides funds to the Department for advanced traineeships for students planning to specialize in some aspect of mental health. For applicants with a minimum of three years of experience, these traineeships provide tuition, a basic stipend of $3600 and dependency allowance within specified limits.

The Children's Bureau provides advanced traineeships to students for leadership in the field of child welfare, for research, administration, social policy and teaching. These traineeships provide tuition, a basic stipend of $3200 plus a dependency allowance and an initial one-way transportation allowance of up to $100 for travel to the academic institution.
The Vocational Rehabilitation Administration, as well as the NIMH, provides pre-doctoral research fellowships, application for which must be made by the student directly to the agency. These fellowships provide varying amounts, depending upon the year of study and the number of dependents.

TEACHING ASSISTANTSHIP

Bryn Mawr College provides Teaching Assistantships with a stipend of $2200 plus one-half tuition. The Assistant will be expected to carry out assignments in the teaching program limited to twenty hours a week or one-half time.

RESEARCH ASSISTANTSHIP

Susan M. Kingsbury Research Assistantship, a research assistantship of the value of $2200 with remission of tuition, will be granted to an advanced student, preferably a candidate for the degree of Doctor of Philosophy, who from either training or experience has knowledge of methods and techniques in social research. The holder of the Assistantship will give one-half time to the research of the Department, and one-half time to study and is not permitted to hold any other paid position.

MASTER'S DEGREE PROGRAM

The National Institute of Mental Health provides funds to the Department for traineeships for students with career goals in mental health. These traineeships are $1800 plus tuition for first year students and $2000 plus tuition for second year students. These traineeships are available for psychiatric social work, school social work and for a special program in family and child welfare.

The Vocational Rehabilitation Administration makes available to the Department funds for a varying number of traineeships for students interested in careers in rehabilitation. These traineeships provide $1800 plus tuition for first year students and $2000 and tuition for second year students.

Traineeships are also awarded by the Department from funds made available by the Children's Bureau. Preference is given to first or sec-
ond-year students entering the field of social work with an interest in child welfare. These traineeships provide tuition and a stipend of $2000. Traineeships are also available for work with mentally retarded children and their families. These provide tuition and a stipend of $2500.

AGENCY FELLOWSHIPS AND SCHOLARSHIPS

Scholarships in social work practice are offered to qualified men and women by a variety of local agencies. They range up to $2800. Awards depend upon acceptance by the Department and, in some instances, an agreement concerning one year's employment following graduation. Agency awards are based upon financial need and professional promise for social work. Some of these awards are made by the Department.

GRANTS FROM THE COMMONWEALTH OF PENNSYLVANIA

The Commonwealth of Pennsylvania has several plans for financing social work education through different offices of the Department of Public Welfare, including Mental Health, Public Assistance and the Office for Children and Youth. A commitment to the state program through which the student is financed is required. Early application is desirable. The Department will assist the student in this at the time of the admission interview. Information may also be obtained from the Department of Public Welfare of the Commonwealth of Pennsylvania, Harrisburg, Pennsylvania.

GRADUATE PRIZES

The Susan B. Anthony Memorial Prize, value $500, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered every two years to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic or political position of women. The award is made by a committee of which the President of the College is chairman.

The Hertha Kraus Award, value $50, is offered annually to a student of the Graduate Department of Social Work and Social Research. This
award was established by the Alumni Association of the Department in honor of Hertha Kraus, a member of the faculty of the Department for over twenty-five years. It is presented to the student who, in the opinion of a special committee established for this purpose, has written the best paper of the year on a subject relating to community organization, history of social welfare, international social welfare or social welfare administration.

The Susan M. Kingsbury Grant in Social Research, value $300, is awarded every third year on the recommendation of the Director of the Graduate Department of Social Work and Social Research to advanced students, men and women, preferably candidates for the degree of Doctor of Philosophy.

Loan Funds

The Bertha Goldstein Memorial Loan Fund, established in honor of Bertha Goldstein, A.B. 1938 and M.A. 1939, is a revolving fund from which, upon recommendation of the Department of Social Work and Social Research, a limited number of loans, not exceeding $150, may be made to graduate students of Social Work and Social Research. Loans are made without interest and must be repaid within five years.

The Ethel Rupert Memorial Loan Fund was established in 1951 by the friends of Ethel Rupert to commemorate her long interest in the preparation of personnel in public welfare. It is a revolving fund from which small loans are made to students in the Department of Social Work and Social Research, at the discretion of the Department.

The Rachel Pflaum Memorial Loan Fund, established in 1926 in memory of Rachel Pflaum, and transferred to Bryn Mawr College in 1951, is a revolving fund from which loans, not to exceed $200, for tuition purposes may be made to students who are recommended by the Director of the Department of Social Work and Social Research.

The Carola Woerishoffer Club Fund is a small revolving fund from which loans may be made to students in the Department of Social Work and Social Research.
The Library

The Department of Social Work and Social Research has its own Library and Reading Room including a collection of books made available on permanent loan from the M. Carey Thomas Library as well as periodicals and pamphlet material in the field of social welfare.

The M. Carey Thomas Library now contains over 310,000 volumes. The Library has a good working collection in all fields in which graduate study is offered. The collection includes files and current numbers of about one thousand periodicals published in the United States and abroad.

The open shelf system provides the maximum of free access to the stacks so that almost all books except those in the Rare Book Room are directly available to the students. The Reference Room and Periodical Room provide ready access to standard works of reference.

Provision is made in the Quita Woodward Memorial Room for books for recreational reading. This collection, numbering more than two thousand volumes, includes books in literature, art, religion, and current affairs as well as many of the classics.

Other facilities available to graduate students are the rich resources in the libraries of the Philadelphia area. Through the services of the Union Library Catalogue, volumes in over 300 libraries within the area may be easily located. The Union Library Catalogue has a record of all books owned by the libraries of the region. Graduate students who wish to use other libraries for purposes of reference may secure letters of introduction from the Bryn Mawr librarian.
Health

Certain Health Requirements must be met by all entering students. The medical examination blank provided by the College must be completed and filed at the time of application. After acceptance every student must also file a physician's certificate stating that he or she has been vaccinated against smallpox within one year of entrance, and that he or she exhibited a typical or immune reaction to this vaccination. Students who do not certify to vaccination are vaccinated at the time of their entrance and charged a fee of one dollar. There is no exception to this rule.

Resident students (those who live in the Graduate Center) must submit reports of recent medical and ophthalmological examinations signed by the appropriate physicians; evidence of immunization against diphtheria and tetanus, by toxoid, and against poliomyelitis within a year of entrance. A report of a Mantoux test is also required; if this is positive, the results of a chest X-ray must be submitted. The forms for these various certificates are supplied by the Office of the Dean of the Graduate School and are to be returned to the same office. If they have not been received by the time the student arrives in Bryn Mawr, the tests will be done here at the student's expense.

Any student with a health problem identified by her personal physician on the entering health form will be evaluated by the College Physician who will initiate such health supervision or consultation as is necessary.

The College maintains a modern 22-bed Infirmary with a full staff of physicians and nurses. The college physicians and psychiatrists may be consulted without charge by the students who have paid the dispensary fee. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. The student must meet the expense if consultation is necessary. The Infirmary is open when College is in session, and during the Spring vacation. It is closed during the Christmas vacation.
The residence charge paid by each resident graduate student entitles her to treatment in the college dispensary, and to care in the Infirmary for seven days (not necessarily consecutive) during the year, to attendance by the College physicians during this time and to nursing, provided her illness is not contagious and is not sufficiently serious to require the services of a special nurse. The fee for each day in the Infirmary after the seven-day period is $12. In case of contagious disease special nursing is obligatory and the student must meet this expense.

All resident and non-resident graduate students of Bryn Mawr College are entitled to subscribe to the Students' Reimbursement Plan, which provides for a substantial proportion of hospital care and medical fees. The premium for this insurance is $15 for a full year starting October 1st. Students should apply to the Comptroller of the College.

Non-resident Fellows and Scholars whose homes are not in the neighborhood are required to pay a non-resident dispensary fee of $25, which entitles them to care and consultations by the College physicians and psychiatrists and to dispensary care. Other non-resident students may, if they so desire, pay this fee and receive the same benefits. Since non-resident students cannot be given bed care in the Infirmary they are urged to take out medical insurance.

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

Student and Alumni Organizations
STUDENT ORGANIZATION OF THE DEPARTMENT OF SOCIAL WORK

All Students in the Department of Social Work and Social Research are eligible for membership in the Student Organization. The organization is concerned with the many phases of student life, such as social gatherings, special events, administration of student lounge, self-regulation of Reading Room and other student needs. The Student Organization and Faculty work together closely to promote the objectives of the Department.
ALUMNI ASSOCIATION OF THE DEPARTMENT

The Alumni Association of the Department was organized to further the interests of the Department and its alumni. Activities of the Association include a spring breakfast for students to be awarded the M.S.S. or the Ph.D.

Officers for 1965-66 are:

Mrs. William L. Tumarkin, President
Anthony Santore, First Vice-President
Merle Broberg, Second Vice-President
Mrs. Manon Bamberger, Recording Secretary
F. Alexandra Ehret, Corresponding Secretary
Mrs. Joan Sall Goldfield, Treasurer
College Calendar
1965/1966

FIRST SEMESTER

1965

September 22. Graduate Center open to resident graduate students
22. Registration period for graduate students begins
27. Work of the 81st academic year begins
29. Registration period for graduate students ends

October 7. Field Instruction begins

November 24. Thanksgiving holiday begins after last class and ends at 9 A.M. the following Monday

December 17. Christmas vacation begins at 12:45 P.M.

1966

January 3. Christmas vacation ends at 9 A.M.
14. Last day of lectures
17. College examinations begin
26. Registration period for graduate students begins
28. College examinations end

SECOND SEMESTER

January 31. Work of the second semester begins
February 2. Registration period for graduate students ends
March 25. Spring vacation begins after last class
April 4. Spring vacation ends at 9 A.M.
May 13. Last day of lectures
16. College examinations begin
27. College examinations end
30. Conferring of degrees and close of 81st academic year

The calendar of dates to be observed by students in Social Work varies in some instances from the College Calendar. Students will be informed of these dates early in September. Among the differences are the more limited vacation periods at Christmas and Easter for those students in field instruction. There is no break in field instruction for the examination period in January - February.

The College does not cancel regularly scheduled classes because of weather conditions.
How to Get to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By air: From the Philadelphia International Airport take the airport limousine to Philadelphia and the Paoli Local to Bryn Mawr or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.

By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43-Interstate #76), turning right at the exit marked "Ardmore-Chester" on to Pa. #23, which is 3.5 miles east of the toll gate; continue into Alternate #23 (Montgomery Avenue) to the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues, and take Morris Avenue to the next traffic light. Turn left on to New Gulph Road.

Visitors may use the College parking lot, entering at Merion Gate, which is directly opposite 815 New Gulph Road.

By bus: All Greyhound buses arrive at the Philadelphia terminal at 17th and Market Streets, adjoining Suburban Station. Trailways buses arrive at 13th and Arch Streets, three blocks from Suburban Station. Take the Paoli Local from Suburban Station to Bryn Mawr.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery and continue on Morris to the next traffic light. Turn left on to New Gulph Road until reaching 815, which is on the right just beyond Caversham Road.
BRYN MAWR, PENNSYLVANIA
BRYN MAWR
COLLEGE CALENDAR

THE GRADUATE SCHOOL 1965-1966
THE M. CAREY THOMAS LIBRARY

AIR VIEW OF MAIN CAMPUS, BRYN MAWR COLLEGE
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BRYN MAWR COLLEGE CALENDAR, Published December, July, August and September by Bryn Mawr College, Bryn Mawr, Pa. 19010.

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How to Get to Bryn Mawr (See Map Insert)
College Calendar
The Graduate School 1965/1966

First Semester

1965

September 16. Final date for filing completed applications for admission to the Graduate School

September 22. Graduate Center opens to resident students
Registration period for graduate students begins

September 27. Work of 81st academic year begins at 9 A.M.

September 29. Registration period for graduate students ends

October 23. Italian, Russian, Spanish and Statistics examinations for graduate students

October 30. French language examinations for graduate students

November 6. German language examinations for graduate students

November 24. Thanksgiving holiday begins after last class

November 29. Thanksgiving holiday ends at 9 A.M.

December 17. Christmas vacation begins at 12:45 P.M.

1966

January 3. Christmas vacation ends at 9 A.M.

January 8. Italian, Russian, Spanish and Statistics examinations for graduate students

January 14. Last day of lectures

January 15. German language examinations for graduate students

January 17. College examinations begin
College Calendar

January 21. Final date for filing completed applications for Semester II admission to the Graduate School

January 22. French language examinations for graduate students

January 26. Registration period for graduate students begins

January 28. College examinations end

Second Semester

January 31. Work of the second semester begins at 9 A.M.

February 2. Registration period for graduate students ends

March 25. Spring vacation begins after last class

April 4. Spring vacation ends at 9 A.M.

April 9. Italian, Russian, Spanish and Statistics examinations for graduate students

April 11. Ph.D. dissertations in all fields except experimental science and mathematics must be submitted to the Graduate School Office

April 16. French language examinations for graduate students

April 23. German language examinations for graduate students

May 2. Ph.D. dissertations in experimental science and mathematics must be submitted to the Graduate School Office

May 13. Last day of lectures

May 16. College examinations begin

May 27. College examinations end

May 30. Conferring of degrees and close of 81st academic year

June 4. Alumnae Day
Introduction

BRYN MAWR COLLEGE was founded as an institution of higher education for women by Dr. Joseph Taylor of Burlington, New Jersey, a member of the Society of Friends. The charter was granted by the Commonwealth of Pennsylvania in 1880 and five years later the College opened. At the time of its founding, advanced education of a rigorous character was difficult for women to obtain and graduate study itself was still in its earliest stage. The trustees' inability to find young women qualified to give the kind of instruction envisioned by the Founder led them to include in the plans for the new college the education of women right through to the Ph.D. Thus when Bryn Mawr College opened in 1885 it was with the first Graduate School for women and the first full graduate fellowships for women. Since 1931 the Graduate School has admitted both men and women. Scholarships, fellowships and assistantships are available for both men and women.

The purpose of graduate work at Bryn Mawr is to prepare students for professional careers in which scholarship and research are fundamental requirements. To this end emphasis is placed on independent work and special opportunities are provided for study and research, in small seminars, under the guidance of members of the Faculty.

Graduate work leading to the M.A. and Ph.D. is offered in the fields of modern literatures, the classics, art and archaeology, music, history and social sciences, philosophy, mathematics, the natural sciences and psychology. A two-year course in Social Work and Social Research leads to the degree of Master of Social Service; the advanced program in this Department leads to the Ph.D.

In all departments fellowships and scholarships are offered to applicants who are highly qualified for the work they propose to do. In a number of departments teaching or research assistantships are also available. Canadians may apply for fellowships or scholarships on the same basis as students from the United States. Awards are made to women students from overseas through the Marguerite N. Farley Fund and through teaching assistantships in French, German, Italian and Spanish.
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J. Tyson Stokes  Katharine Budd Whelihan³
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Eleanor Little Aldrich⁶  Alumnae Director, 1964-9
Doreen Canaday Spitzer by invitation¹⁶
President of the Alumnae Association

¹² ¹³ ¹⁴ ¹⁵ ¹⁶
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William W. Vosburgh, Ph.D. (Yale University), Assistant Professor of Social Work and Social Research

Greta Zybon, M.S.W. (Syracuse University), Assistant Professor of Social Work and Social Research

Audrey Barnett, Ph.D. (Indiana University), Assistant Professor-elect of Biology

Anne Constantinople, A.B. (Smith College), Assistant Professor-elect of Psychology

Maria Luisa B. Crawford, Ph.D. (University of California), Assistant Professor-elect of Geology

William A. Crawford, Ph.D. (University of California), Assistant Professor-elect of Geology

Charles G. Dempsey, Ph.D. (Princeton University), Assistant Professor-elect of History of Art

William G. Hopkins, Ph.D. (Indiana University), Assistant Professor-elect of Biology

Eleanor Winsor Leach, Ph.D. (Yale University), Instructor and Assistant Professor-elect of English

Peter J. Leach, M.F.A. (Yale University), Instructor and Assistant Professor-elect of English

Earl Thomas, Ph.D. (Yale University), Assistant Professor-elect of Psychology

George Treyz, A.B. (Princeton University), Assistant Professor-elect of Economics on joint appointment with Haverford College
Herbert L. Alexander, Jr., M.A. (Yale University), Lecturer in Anthropology

Erika Rossman Behrend, M.A. (University of Pennsylvania), Part-time Lecturer and Research Associate in Psychology

Frances Bondhus Berliner, Ph.D. (Bryn Mawr College), Part-time Lecturer in Chemistry

Patricia Millar Burland, M.S.S. (Bryn Mawr College), Part-time Lecturer in Social Work and Social Research

Marlis Cambon, Staatsexamen (Johannes Gutenberg University), Lecturer in German

Isabelle Cazeaux, Ph.D. (Columbia University), Lecturer in Music

Nancy C. Dorian, Ph.D. (University of Michigan), Lecturer in German

Edward A. Dowey, Jr., Th.D. (University of Zurich), Visiting Lecturer in History

Alice F. Emerson, Ph.D. (Bryn Mawr College), Lecturer in Political Science

Morton S. Enslin, Th.D. (Harvard University), D.D., Visiting Lecturer in History of Religion

Richard A. Falk, J.S.D. (Harvard University), Visiting Lecturer in Political Science, Semester II

John Frank Kermode, M.A. (Liverpool University), Mary Flexner Visiting Lecturer in English

Joan L. Klein, Ph.D. (Radcliffe College), Part-time Lecturer in English

Cynthia Klinman, Ph.D. (University of Connecticut), Part-time Lecturer in Psychology

Arthur J. Komar, M.Mus. (Yale School of Music), Visiting Lecturer in Music

Stella Kramrisch, Ph.D. (University of Vienna), Visiting Lecturer in History of Art
Faculty and Staff

SEYMOUR LEVENTMAN, PH.D. (University of Minnesota), Visiting Lecturer in Sociology
VICENTE LLORÉNS, Licenciado en Filosofía (University of Madrid), Visiting Lecturer in Spanish
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MARTIN OPPENHEIMER, PH.D. (University of Pennsylvania), Lecturer in Sociology
MARIAN PARISEAU, PH.D. (University of Minnesota), Lecturer in Chemistry
ROBERT L. PATTON, PH.D. (Princeton University), Lecturer in English
KATHRYN JOAN ETCHELIS PYNE, PH.D. (Stanford University), Lecturer in Philosophy
JOHN D. SPIELMAN, JR., PH.D. (University of Wisconsin), Visiting Lecturer in History
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LARRY STEIN, PH.D. (University of Iowa), Part-time Lecturer, Semester I, in Psychology and Research Associate
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OLIVER WILLIAMS, PH.D. (University of Chicago), Visiting Lecturer in Social Work and Social Research

RAUL CANTELLA, M.D. (University of San Marco), Research Associate in Biology
SYLVIA G. CLINE, PH.D. (Bryn Mawr College), Research Associate in Biology
LISELOTTE METZGER FREED, PH.D. (Columbia University), Research Associate in Biology
JAMES H. HUDSON, M.A. (University of Michigan), Research Associate in Social Work and Social Research
Ingeborg I. Schuster, Ph.D. (Carnegie Institute of Technology), Research Associate in Chemistry

Dorothy S. Smythe, A.B. (Mount Holyoke College), Research Associate in Biology

Clelia S. Wood, Ph.D. (Bryn Mawr College), Research Associate in Chemistry

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Ellen Ginsberg, Ph.D. (University of Chicago), Instructor in French

Margaret A. Healy, M.A. (St. John's University), Part-time Instructor in Philosophy

Ramona Livingston, A.B. (William Jewell College), Instructor in English

Eleanor Krane Paucker, Ph.D. (University of Pennsylvania), Instructor in Spanish

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Doris Quinn, M.A. (Oxford University), Part-time Instructor in English

Patricia H. Russell, Ph.D. (University of Toronto), Instructor in English

T. Leslie Shear, M.A. (Princeton University), Instructor in Greek and Latin

Katrin Taeger Bean, M.A. (Bryn Mawr College), Part-time Instructor-elect in German

Francis J. Esterhill, Jr., M.A. (Columbia University), Instructor-elect in Latin

Maria Franziska Marshall (University of Munich), Instructor-elect in German

John T. Paoletti, M.A. (Yale University), Instructor-elect in History of Art
Faculty and Staff

Virginia Brooke Pennypacker, M.A. (Bryn Mawr College), Part-time Instructor-elect in English

Edmund Sherman, Jr., M.S.S. (University of Buffalo), Part-time Instructor-elect in Social Work and Social Research

Carol Ward Carpenter, M.A. (University of Pennsylvania), Curator of Slides and Photographs

Fritz Janschka, Akademischer Maler (Akademie der Bildenden Kunste), Artist in Residence

William H. Reese, Ph.D. (University of Berlin), Director of Orchestra

Louise A. Alpers, A.B. (Bryn Mawr College), Part-time Assistant in Classical and Near Eastern Archaeology

Ruth Barish, A.B. (Goucher College), Part-time Assistant in Psychology, Semester I

David Eugene Bresler, A.B. (Brandeis University), Part-time Assistant in Psychology, Semester I

Edward T. Butler, Jr., M.S. (American University), Part-time Assistant in Geology

Thomas Colman, B.S. (Niagara University), Part-time Assistant in Chemistry

Brenda L. Davies, B.A. (University of Keele), Part-time Assistant in Economics

Toby K. Eisenstein, A.B. (Wellesley College), Part-time Assistant in Biology

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Penny Jane Gilmer, A.B. (Douglass College), Part-time Assistant in Chemistry

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JOHN RANISESKI, M.S. (St. Joseph's College), *Part-time Assistant in Chemistry*

DAVID SCOTT, M.E. (Yale University), *Part-time Assistant in Physics*

JOHN DOUGLAS SCOTT, B.S. (Drexel Institute of Technology), *Part-time Assistant in Geology*

WILLIAM SELLYEY, B.S. (Villanova University), *Part-time Assistant in Physics*

KIT-YIN TING SNYDER, M.S. (University of Michigan), *Part-time Assistant in Mathematics*

VIRGINIA SPATE, M.A. (Melbourne University), *Part-time Assistant in History of Art*

DONNA STEVENSON, A.B. (Wheaton College), *Part-time Assistant in Chemistry*

MADOLENE STONE, M.A. (Bryn Mawr College), *Part-time Assistant in Philosophy*

SARAH BANKS SUTTON, A.B. (Wellesley College), *Part-time Assistant in Music*

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ESN ORTAC TRAUB, M.A. (Bryn Mawr College), *Part-time Assistant in Philosophy*

MARY L. WOLFE, M.S. (University of Delaware), *Part-time Assistant in Mathematics*
Faculty and Staff

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HILARY HENNEKE, A.B. (Bryn Mawr College), Assistant to the Director of Admissions
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MARY PATTERSON MCPHERSON, M.A. (University of Delaware), Assistant Dean of the College
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CLARISSA WARDWELL PELL, Director of the Resources Committee
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HORACE T. SMEDLEY, Superintendent of Buildings and Grounds
KATHARINE BUDD WHELIHAN, A.B. (Mount Holyoke College), Assistant to the President

Library

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PAMELA G. REILLY, M.S.L.S. (Drexel Institute), Head of Circulation and Reference Department
JANE WALKER, B.S. (Simmons College), Head of Cataloguing Department
DOROTHY V. McGEORGE, B.S.L.S. (Drexel Institute), Order Librarian
YILDIZ VAN HULSTEYN, M.S.L.S. (Drexel Institute), M.A. (Bryn Mawr College), Librarian, West Wing
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Bryn Mawr College

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Gertrude Reed, M.A. (Rutgers University), Assistant in the Circulation Department

Cornelia A. Tucker, M.S.L.S. (Louisiana State University), Assistant in the Circulation Department

Foreign Students

Phyllis Turnbull, D. en F.L. (University of Madrid), Assistant Professor of Spanish and Adviser to Foreign Students

Halls of Residence

Joan Crowther, M.A. (Bryn Mawr College), Warden of Eleanor Donnelley Erdman Hall

Ayse Ercetin, B.A. (Middle East Technical University), Warden-elect

Linda Fagan, M.A. (Bryn Mawr College), Warden-elect

Mary Louise Hawkins, M.A. (Bryn Mawr College), Warden-elect

Margaret Healy, M.A. (St. John’s University), Warden of Pembroke West Hall

Sylvia Kartsonis, M.A. (Bryn Mawr College), Warden of Rockefeller Hall

Mary Patterson McPherson, M.A. (University of Delaware), Warden of Pembroke East Hall

María del Carmen Robledo, A.B. (College of William and Mary), Warden of the Spanish House

Gudula von Savigny (University of Saarbrucken), Warden-elect of the German House
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Frieda W. Woodruff, M.D. (University of Pennsylvania), Assistant College Physician
John F. Howkins, M.D. (Columbia University, College of Physicians and Surgeons), Consulting Psychiatrist
Howard B. Smith, M.D. (Jefferson Medical College), Consulting Psychiatrist
Irene A. Clayton, M.S. (University of Wisconsin), Director of Physical Education

Physical Education

Irene A. Clayton, M.S. (University of Wisconsin), Director of Physical Education
Gloria Schmidt, M.A. (New York University), Instructor in Physical Education
Gail Strathdee, B.S. (Tufts University), Instructor in Physical Education
Janet A. Yeager, Instructor in Physical Education

Child Study Institute

Rachel Dunaway Cox, Ph.D. (University of Pennsylvania), Director
Elizabeth Preston, M.S.S. (Bryn Mawr College), Social Caseworker
Louise Brunk, M.S.S. (Bryn Mawr College), Social Caseworker
Elizabeth Emlen, M.S.S. (Bryn Mawr College), Part-time Social Caseworker
Virginia G. Keen, M.S.W. (University of Pennsylvania School of Social Work), Part-time Social Caseworker
Jeanne Murray, M.S.W. (University of Washington), Social Caseworker
Christine Patzau, M.S.W. (University of Pennsylvania School of Social Work), Social Caseworker
Elsie Waelder, M.S.W. (Western Reserve University), Part-time Social Caseworker
ELEANOR BEATTY, M.A.  (George Washington University), Psychologist
LELIA BRODERSEN, M.A.  (Temple University), Psychologist
ANITA GRINNELL, M.S.  (University of Pennsylvania), Part-time Psychologist
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HERMAN STAPLES, M.D.  (Hahnemann Medical College), Consulting Psychiatrist
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CONSTANCE GRANT, B.S.  (University of Pennsylvania), Remedial Reading Teacher
BETH RISER, A.B.  (Northwestern University), Remedial Reading Teacher
HOPE D. MITCHELL, A.B.  (Sarah Lawrence College), Psychological Assistant
ISABEL WESTFRIED, A.B.  (University of Pennsylvania), Psychological Assistant

Phebe Anna Thorne School
DIANNE H. WARNER, M.A.  (University of Michigan), Director
JOAN FRASER, B.S.  (Northwestern University), Teacher
MARJORIE M. HILLMAN, B.S.  (West Chester State College), Assistant Teacher
MARY GIBBS SMITH, A.B.  (Bryn Mawr College), Assistant Teacher

Committees

The Graduate Committee

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Dean Bliss, Vice-Chairman

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Mr. Berliner
Miss de Laguna
Mr. Watson
Miss Stapleton
Mr. Ferrater Mora

Mr. Bachrach
Mr. González Muela
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The Graduate Scholarships Committee

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The Graduate School

ADMISSION

THE GRADUATE SCHOOL is open to qualified graduates in liberal arts and sciences, men and women, from colleges or universities of acknowledged standing. Application for admission, to be made to the Dean of the Graduate School, Bryn Mawr College, Bryn Mawr, Pennsylvania, should be supported by official transcripts of the student’s full academic record and by letters from the dean and from two or more professors of the applicant’s undergraduate college. Applications should be filed, complete, by the dates specified on pages 5 and 6. When writing for application materials students should indicate their fields of interest.

Admission to graduate courses is under the jurisdiction of the various departments which may, at their discretion, require students whose preparation is insufficient to pursue certain undergraduate courses before being enrolled in a graduate course. Admission to the Graduate School does not automatically qualify a student to become a candidate for an advanced degree. Students whose courses of study meet the prerequisites may on application to the Graduate Committee be enrolled as candidates for the Degrees of Doctor of Philosophy, Master of Arts or Master of Social Service.

Graduate Record Examination. The Bryn Mawr Graduate School recognizes as contributory evidence of the qualifications of a student for admission a record of attainment in the Graduate Record Examination. It is required by the Departments of Biology, Education and Child Development, English and Physics. Applicants for admission to the Graduate School who wish to take the examination should apply directly to the Graduate Record Examination, Educational Testing Service, P.O. Box 592, Princeton, N. J., where full information may be secured and arrangements for taking the test may be made.

REGISTRATION

All graduate students, after consultation with the chairmen of their departments, must register for courses at the Office of the Dean of the Graduate School each semester during the registration period. Changes in registration require the approval of the Dean.
Program of Study

The Graduate Program is planned to give students a small number of hours in the seminar (usually not more than six hours a week) and time for individual work under the guidance of members of the faculty. Graduate students work in seminar rooms and laboratories close to the offices of members of the faculty and have ample opportunity for conference and discussion.

Seminars and graduate courses are described under the announcements of the Departments. They are open to properly qualified first-year as well as more advanced graduate students.

Three units of graduate work constitute a full program. Instead of a seminar or graduate course, students may take for graduate credit:

1. A supervised unit of graduate work, equivalent to a seminar or graduate course, planned and examined by a member of the faculty but carried on independently by the student. Such work may consist of reading with selected reports, research with results submitted or a combination of both.

2. An advanced undergraduate course with additional work. Advanced undergraduate courses are sometimes elected to complete the student's prerequisites or to provide essential training in an allied field. One such course, accompanied by additional work, may, with the approval of the major department, be included in the M.A. program. Such undergraduate courses are listed with the graduate courses in this Calendar.

Journal Clubs and Colloquia. In many departments the members of the faculty and graduate students meet from time to time to discuss current research or to review recent publications in their field of study. Students will be notified by their respective departments of arrangements for their Colloquia or Journal Clubs.
**Program of Study**

**Prerequisites.** The prerequisites for graduate courses are established by the various departments. In special cases, with the approval of the department concerned, work in related subjects may be accepted in lieu of the stated prerequisites.

**RECIPROCITY WITH THE UNIVERSITY OF PENNSYLVANIA**

Courses at the University of Pennsylvania, Graduate School of Arts and Sciences, are available to graduate students at Bryn Mawr College. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the University is limited to the equivalent of one unit per year. Under the Reciprocal Plan the procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr, with the exception that the student will present a letter of introduction to the Dean of the Graduate School of the University of Pennsylvania when registering there. The University charges a small general fee for the use of the Library, a $5.00 library deposit, which is refundable, and fees for lateness. Since the University of Pennsylvania opens early in September, students coming to Bryn Mawr for the first time will not be able to take courses at Pennsylvania until the second semester.

**SUMMER WORK**

Bryn Mawr has no summer session. Occasionally, however, arrangements can be made for graduate students to continue their research during the summer under the supervision of members of the faculty. Such arrangements are made at the invitation of the members of the faculty. The amount of credit for the work and the tuition fee to be charged depend upon the particular circumstances. Students will register for such work at the Graduate Office early in June.
The Degrees of Doctor of Philosophy, Master of Arts, and Master of Social Service

BRYN MAWR COLLEGE awards the degrees of Doctor of Philosophy, Master of Arts, and Master of Social Service.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The course of study for the degree of Doctor of Philosophy at Bryn Mawr College is designed to prepare the candidate for a professional career as a scholar. The course offers the student the opportunity to acquire a broad general background in chosen fields of knowledge and practice in research in these fields. The degree is awarded after the student's general knowledge and ability in research have been tested by examination and by a dissertation.

The candidate for the Ph.D. degree should have ability of high order, intellectual curiosity and critical judgment, independence, a broad general education, fundamental training in the major and allied fields and the determination needed to carry through an exacting program.

The regulations for the Ph.D. degree are described in detail in a special pamphlet which will be given to applicants for candidacy. The general requirements, to which should be added those of the various departments, are:

1. An undergraduate preparation in major and allied fields which is satisfactory to the departments concerned and to the Graduate Committee.

2. A course of study requiring a minimum of three full years of work beyond the A.B. degree in major and allied fields; for graduates of other colleges, two of these years must be spent in the Graduate School of Bryn Mawr College but for candidates
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who have held academic appointments at Bryn Mawr College and occasionally for others this requirement may be reduced by the Graduate Committee; for candidates who hold the A.B. degree from Bryn Mawr College, one full year of graduate work at Bryn Mawr is required. Although there are no formal course requirements for the Ph.D. degree, students will ordinarily find it advisable to complete six or seven units of graduate work.

3. The recommendation of the student as a candidate by the director of the dissertation and the major department and the acceptance of the recommendation by the Graduate Committee. Application for candidacy, on a form to be obtained at the Graduate Office, may be made as early as the spring of the student's first year in the Graduate School.

4. A reading knowledge of two modern languages, tested by written examinations in the translation of texts in the field of the major subject.* These examinations must be passed before the student takes the Preliminary Examination.

5. A satisfactory Preliminary Examination in the candidate's major and allied fields. This examination, consisting of several written examinations, and, at the option of the department, an oral examination, is intended to test the candidate's general knowledge of the fields rather than familiarity with particular courses.

6. The preparation of a dissertation judged to be a contribution worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject. It must contain new material, results or interpretations.

7. A satisfactory Final Oral Examination in the special field of the major subject in which the dissertation has been written.

8. The publication of the dissertation in whole or in part. Microfilming is accepted as a method of publication.

* See the statements under the Departments for the language requirements. For the Ph.D. in Social Work only one modern language is required. Students whose mother tongue is not English may, with the approval of their department, be excused from one of these language examinations. (They may not offer their own language.)
THE DEGREE OF MASTER OF ARTS

The degree represents the completion of a coordinated program of graduate work which, in the case of well-prepared candidates, can be accomplished in one academic year. Work for the degree may be spread over several years which need not be in succession but must be included in a five-year period. Only courses taken at Bryn Mawr College are credited for the degree.

Prerequisites. The prerequisite for the M.A. degree is an A.B. degree or its equivalent from an American college of recognized standing or a degree or certificate of the same standard from a foreign university. The preparation must include such undergraduate work in the candidate’s major subject and allied fields as the various departments require.

Application. The candidate applying for the degree in the department of the major work must receive the endorsement of the department for the program of work and must be accepted by the Graduate Committee. The application and the program endorsed by the major department must be submitted to the Dean of the Graduate School not later than December 1 of the academic year in which the candidate wishes to take the degree. Application forms are supplied by the Graduate Office.

Language Requirement. A reading knowledge of two modern languages is in general required of all candidates.* Students in Economics and Education may offer Statistics instead of the second language. In Psychology and Sociology, Statistics is required and the language requirement is reduced to one. Candidates whose major work is in a modern language must offer a reading knowledge of two other languages.

The language requirement is met by passing a written examination set by the major department in reading, at sight and with a dictionary, technical material in the candidate’s major field.

Examinations in languages, and in the techniques which in certain departments may be substituted for one language, are held three times each year, in October, January and April. At least one of the examinations must be taken not later than the October period of the academic year in which the degree is to be

* See the statements under the Departments for the departmental language requirements.
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received. All departments except Biology, Classical Archaeology, Mathematics and Spanish require that at least one shall be passed by that time. No candidate may receive the degree in any academic year unless both examinations have been passed by the January examination period, or, in special cases approved by the major department and the Graduate Committee, permission has been obtained to postpone one until the April period.

Students are expected to prepare for these examinations before entering upon the work for the M.A. degree and are strongly urged to take both examinations in October. Students who do not meet the two requirements in languages and techniques in October may find it impossible to carry a full program and complete the requirements for the degree in one year.

Only one of these language examinations is required of students whose mother tongue is not English.* Instead of a second, they are asked to present evidence of proficiency in English as part of their application for admission; during the first semester the students' departments will be asked to certify that their knowledge of English meets the departmental requirement. This special regulation for foreign candidates does not prevent a department from refusing to admit students to any seminar for which their proficiency in languages is inadequate.

Program of Work. The candidate's program must include three units of work: (1) one seminar or graduate course; (2) a second seminar or supervised unit of graduate work; (3) a third seminar or an undergraduate course recommended by the major department. If undergraduate courses are included in this last unit, they must be supplemented by additional individual work. Under certain circumstances advanced undergraduate courses in science can be counted as seminars, subject to the approval of the department and the Dean of the Graduate School. Candidates may take three units of work in one major department or two in a major department and one in an allied field. Candidates whose major department conducts a Journal Club or Colloquium are expected to include it in their program.

* They may not offer their own language.

Foreign students in the Department of Psychology will meet the requirement with Statistics; students in the Department of Education may do so if they prefer; students in the Department of Sociology may do so if their native language is French or German.
Special Field. The candidate shall, in consultation with the major department, select a special field for the M.A. paper and the Final Examination. It is expected that this field will normally relate to one of the seminars or units of graduate work in the candidate's program.

Final Requirements.

1. Courses. Before the Final Examination period, candidates must have completed to the satisfaction of their instructors the courses registered for the degree. No candidate will be admitted to the Final Examination if one of these courses is reported as unsatisfactory.

2. Paper in the Special Field of the Student's Major Subject. Every candidate must present a paper in the special field. The paper may take the form of a report on a special piece of investigation carried on throughout the year or during a definite period, or of a problem which is assigned to be completed during a specified limit of time. The date when the paper is due is set by each Department for candidates in residence; for those not in residence it must be submitted in finished form by May 1 of the year of the degree.

3. An Examination. Every candidate must pass a Final Examination which shall test her ability to place the special field in the general background of the major subject.

The Final Examination may not be taken until

(1) the language requirements have been met;
(2) the three units have been reported as satisfactory;
(3) the paper in the special field has been accepted.

THE DEGREE OF MASTER OF SOCIAL SERVICE

The program for the M.S.S. degree is designed to prepare graduates for Social Casework and Community Organization. Two academic years of full-time study are required. The degree represents the completion of a coordinated program of courses and field instruction. In the program in social casework, provision is made for concentration in the following fields: Child Welfare, Family Welfare, Medical, Psychiatric and School Social
Degrees

Work. In Community Organization preparation is provided for Community Welfare Planning, Neighborhood Organization, Urban Renewal and Intergroup Relations.

Prerequisites. The prerequisite for the M.S.S. degree is an A.B. degree or its equivalent from an American college or university of recognized standing, or a degree or certificate of the same standard from a foreign university. An undergraduate major in one of the social sciences or in the humanities with some work in the social sciences is usually required, although in exceptional cases this requirement may be waived. There are no language requirements for the M.S.S. degree. All first-year M.S.S. students must pass an examination in statistical concepts given at the end of the non-credit course, Introduction to Statistical Concepts.

Program of Work. The basic first-year program is similar for all students except that the student selects either casework or community organization as the principal course in social work practice. The first-year courses are:

- Social Welfare Policy and Services I and II
- Human Growth and Behavior I and II
- Social and Cultural Concepts in Social Work Practice
- Social Research
- Social Casework I
- Social Casework I and II or Community Organization I and II
- Introduction to Statistical Concepts (non-credit)
- Field Instruction

The courses in the second year are in part determined by the principal area of practice of the student:

- Social Agency Administration
- Social Issues and Social Policy
- Psychoanalytic Concepts in Social Work Practice
- Social Group Work
- Community Organization III and IV
- Social Casework III and IV
- Field Instruction
- Thesis Seminar
Requirements for Degree. Candidates for the degree of Master of Social Service must have completed the two-year program of study consisting of a minimum of eighteen semester courses or the equivalent in full-year courses including field instruction; they must prepare a Master's paper and pass a final examination which tests the ability to place their special fields in the general background of social work.

Special Part-time Program. It is possible for students for the Master's degree to extend the two-year program to three years. The usual pattern is to complete the first graduate year's requirements over a period of two years on a part-time basis, and to complete the second year's requirements during the third year on a full-time basis.
Fees and Residence

FEES

THE TUITION FEE for graduate students is $1300 a year, payable one half early in the first semester and the other half early in the second semester.

For students registered for part-time work the fee for each course, seminar, or unit of supervised work, is $450 a year or $225 a semester. In the Department of Social Work and Social Research the part-time fee is $350 a year.

Fees for auditors are the same as for students registered in courses for credit.

All students taking courses which require field work in the Department of Social Work and Social Research are charged a fee of $10 a semester for each such course taken during the academic year and a fee of $10 for summer field work. This fee covers a part of the expenses of field supervision. In addition students are required to meet their travelling and incidental expenses while working in the field during the academic year and vacations.

Students taking undergraduate courses in the sciences (not for graduate credit) are charged laboratory fees at $10 per course per semester, or $25 per semester for three courses.

Students whose fees are not paid before November 15 in the first semester and before March 15 in the second will not be permitted to continue in residence or to attend their classes. No reduction of the tuition fee will be made on account of absence, withdrawal, or dismissal or for any other reason.

The graduation fee for Doctors of Philosophy, Masters of Arts, and Masters of Social Service is $20.00.
## Summary of Expenses for the Academic Year

<table>
<thead>
<tr>
<th>Category</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Regular</strong></td>
<td></td>
</tr>
<tr>
<td>Tuition Fee</td>
<td>$1300</td>
</tr>
<tr>
<td>Residence (including health service)</td>
<td>1000</td>
</tr>
<tr>
<td><strong>Contingent</strong></td>
<td></td>
</tr>
<tr>
<td>Dispensary Fee (non-resident students)</td>
<td>25</td>
</tr>
<tr>
<td>Health Insurance (foreign students)</td>
<td>45</td>
</tr>
<tr>
<td>Social Work Field Instruction Fee</td>
<td>20</td>
</tr>
<tr>
<td>Laboratory Fee for undergraduate courses</td>
<td></td>
</tr>
<tr>
<td>(not for graduate credit), per course</td>
<td>20</td>
</tr>
<tr>
<td>Graduation Fee</td>
<td>20</td>
</tr>
<tr>
<td>Charge for microfilming Ph.D. dissertation</td>
<td>30</td>
</tr>
<tr>
<td>Room on campus Christmas and spring vacations</td>
<td>45</td>
</tr>
<tr>
<td>($1.50 per day—maximum 30 days)</td>
<td></td>
</tr>
</tbody>
</table>

Round-trip fare to Philadelphia is about $1.25

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### The Graduate Center

Residence for forty-five women graduate students is provided in the Graduate Center which lies at the north end of the campus, about an eight-minute walk from the Library. Meals and health service are included in the residence charge. Each student has a separate bedroom, furnished except for rugs and curtains; bed linen, including blankets, is provided but students should bring towels. Because of college fire regulations, smoking is not permitted in the bedrooms but there is a smoker on each floor. The dining room, which seats sixty, is open to students living outside the Center who wish to lunch or dine there.

Application for a room should be made as early as possible. A room contract, which will be sent upon request, must be signed and returned with a deposit of ten dollars to the Dean of the Graduate School. The deposit will be deducted from the residence fee; it will not be refunded under any circumstances.

A student who has reserved a room in the Graduate Center will be held responsible for the residence charge unless she sends notice of withdrawal, in writing, to the Dean of the Graduate School.

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* Students applying for residence in the Graduate Center are asked to submit reports of recent medical examinations. See pp. 54-55.
School before September first. Appropriate reduction or remission of the residence fee will be made if the College is able to reassign the room to another student not already accommodated in the Center. The student herself is not entitled to dispose of the room she leaves vacant. Appropriate reduction or remission will be made for that portion of the residence fee which represents the cost of food. A student in residence who is absent from the College for six weeks or more because of illness will also be granted a proportionate reduction for food. Allowance cannot be made for dietary restrictions.

The regular charge for residence (room, board and health service) for graduate students is $1000 a year, payable one half early in the first semester and the other half early in the second.

Residence in the Center is for the academic year only—from the opening of college in the fall until Commencement Day. One of the residence halls is kept open during Christmas and spring vacations where students may stay at a charge of $1.50 a day (meals not included). Baggage will be accepted at the College after September 15. It should be sent prepaid, addressed to the Graduate Center.

There is no hall of residence for men. They and other non-resident students must make their own living arrangements. Lists of accommodations may be seen in the Comptroller’s Office.

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

EXCLUSIONS

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.
Fellowships and Scholarships

The college awards, on the basis of academic excellence, about sixty graduate scholarships and fellowships to women who are graduates of accredited colleges or universities. Some awards are open to men on the same basis. The various types of awards are described below.

APPLICATION

Applications for fellowships and scholarships should be made to the Dean of the Graduate School and must be filed complete not later than March first preceding the academic year for which they are desired. The documents are the same as for admission. In writing for forms applicants should state their fields of concentration. Awards are announced each year on April first and recipients should signify their acceptance or refusal by April fifteenth.

Completed applications for scholarships for foreign women must be received not later than January twenty-fifth. The applicants will be informed of the action taken early in March.

FELLOWSHIPS

Twenty-three Fellowships, value $2800 each, are offered annually in Biology, Chemistry, Classical and Near Eastern Archaeology, Economics, Educational Psychology, English, Geology, German, Greek, History, History of Art, Latin, Mathematics, Medieval Studies (the Howard Lehman Goodhart Fellowship), Music, Philosophy, Physics, Political Science, Psychology, Romance Languages (two fellowships), Russian, Social Work and Social Research (the Carola Woerishoffer Memorial Fellowship), and Sociology and Anthropology. They are awarded on the basis of merit and are open to American and Canadian women who are graduates of colleges of good standing, and who have completed at least one full year of graduate work.

The Theodore N. Ely Fund. An additional Fellowship or Scholarship in Art or Archaeology is awarded from the interest on this fund, which was established in 1959 by bequest of Katrina Ely Tiffany, Class of 1897.
The Margaret Gilman Fund. An additional Fellowship or Scholarship in French, open to both men and women, is awarded from the interest on this fund, which was established in 1958 by bequest of the late Margaret Gilman, Professor of French at Bryn Mawr College.

The S. Maude Kaemmerling Scholarship was established in 1959 by a gift from the estate of S. Maude Kaemmerling and increased by a gift in 1965. The income on the fund is to be used for graduate scholarships and fellowships.

The Samuel H. Kress Foundation Fellowships in varying amounts are awarded to advanced graduate students in History of Art. These awards are made possible by a grant from the Samuel H. Kress Foundation.

The Katharine Elizabeth McBride Fellowship. In the 75th Anniversary Year a fund for a graduate Fellowship in honor of Katharine Elizabeth McBride, President of the College, was established by gifts from a few friends of Miss McBride among the alumnae. The endowment of this fellowship was increased by a gift from the Class of 1925 on its 40th reunion.

The Ida H. Ogilvie Fellowships in Geology are awarded each year from part of the income of the Ida H. Ogilvie Fund, which was established in 1965 through the bequest of Dr. Ogilvie, a member of the Class of 1896.

The Max Richter Fellowship Fund was established in 1962 and increased in 1965 by gifts from the Trustees of the Richter Memorial Foundation. Income from the endowment provides two or more fellowships to advanced students interested in political affairs.

The Mildred Clarke Pressinger von Kienbusch Fellowship was established in 1964 by a gift in honor of Mildred Clarke Pressinger von Kienbusch of the Class of 1909. The income on this fund is to be used for a graduate student working toward the doctorate.

Fellows by Courtesy

Fellows who continue their studies at the College after the expiration of their fellowships may, by a vote of the Directors, receive the rank of Fellow by Courtesy.
GRADUATE SCHOLARSHIPS

Twenty-one Graduate Scholarships, value $2100 each, are offered annually to women for work in any department of the Graduate School. Holders of these scholarships in their first year of graduate work at Bryn Mawr are required to live at the Graduate Center. Others may elect to do so. The stipend covers tuition and part of the residence charges. Scholars who have had a full year at Bryn Mawr may live off campus. In that case tuition and dispensary fees will be deducted from the stipend and the balance paid the student in November and March.

The College also offers several Graduate Scholarships, value $2100 each, to men. Tuition and dispensary fees will be deducted from the stipend and the balance paid the student in November and March. There is no hall of residence for men.

TUITION SCHOLARSHIPS

Eight scholarships providing free tuition are available to men and women whose homes are in the neighborhood.

SCHOLARSHIPS FOR FOREIGN WOMEN

Ten scholarships are especially designated for foreign women who have excelled in their university studies. Applicants must have had three or four years of university training. Each scholarship carries a stipend of $2300 which covers full tuition and residence in the Graduate Center during the academic year. (Vacations are not included and students will need to provide additional funds for these and for other non-college expenses.) A student who holds a scholarship for a second year may live off campus if she prefers. Scholarship holders are expected to carry a full program of graduate work and to attend regularly the courses for which they are registered. At times an advanced undergraduate course may meet the student's needs better than a graduate seminar; in that case she will make extra contributions in order to bring the work to the graduate level. Most of the formal work, however, is given in seminars. These are best described as small discussion groups in which the students, as well as the instructor, actively participate. It is essential, therefore, that the student be able not only to read and write English, but to understand it and speak it fluently. For a full statement of the graduate program and requirements, reference should be made to the preceding pages and to the departmental announcements.
The Marguerite N. Farley Scholarships for Foreign Women. Five foreign scholarships, of the value of $2300, are offered to women from any country outside the United States and Canada.

A Special British Scholarship, of the value of $2300, is reserved for a candidate from Great Britain sponsored by The English-Speaking Union.

Special Foreign Scholarships for French, German, Italian and Spanish, of $2400 each, have been established for students whose languages form part of the Bryn Mawr curriculum. Holders of these scholarships are asked to devote four or five hours a week to supervised teaching or other assistance in the appropriate language department. The Special Scholarship for French has been named in memory of Marcellle Pardé who was a member of the French Department of Bryn Mawr College between 1919 and 1929. The Special Scholarship for Spanish has been named in memory of Miguel Catalan, distinguished Spanish physicist and friend of Bryn Mawr.

SCHOLARSHIPS AND FELLOWSHIPS UNDER THE PLAN FOR THE COORDINATION OF THE SCIENCES

The several departments of the natural sciences and mathematics administer a fund for the Coordination of the Sciences, given to the College by the Carnegie Corporation of New York. Its purpose is to encourage and facilitate teaching and research in fields such as biochemistry, biophysics, geochemistry, geophysics, psychophysics.

Scholarships of $2100 each are open to qualified students who have had undergraduate training in two or more of the natural sciences and who wish to continue study in a field that includes both of them.

Scholarships may also be awarded to students planning to specialize in one science only, but desiring further training in a related science. Students who wish to begin preparation in one or more of the natural sciences are also eligible for scholarships and on this plan such students, who are essentially taking a "Fifth-Year" of undergraduate work, are considered special graduate students whose program will not lead to a higher degree in their first year in the Graduate School.

Fellowships of the value of $2800 each in the same fields are
also offered to candidates who, in addition to undergraduate training, have had at least a year of graduate work in science.

These Scholars and Fellows will pay the regular tuition of $1300 a year. For residence in the Graduate Center an additional $1000 would be charged.

In certain cases a candidate who is unable to pursue full-time graduate study may be awarded a partial scholarship or fellowship.

When appropriate a post-doctoral Research Fellowship is offered to a candidate who wishes to work in a borderline field, as outlined above, or one who, while working in one science, wants to utilize methods or tools of another science for a specific research problem.

The scholarships and fellowships under the Plan for the Coordination of the Sciences are open to men as well as women.

**SOCIAL WORK AND SOCIAL RESEARCH**

*The Carola Woerishoffer Fellowship in Social Work and Social Research*, of $2800, is offered annually to a student in the Department.

*The Carola Woerishoffer Scholarship in Social Work and Social Research*, of $2100, is offered annually to a student in the Department.

*Agency Fellowships and Scholarships*. A number of scholarships ranging in value from $500 to $2400 are offered by various agencies in Philadelphia and vicinity to second-year graduate students, men and women, who wish to be candidates for the degree of Master of Social Service. These agency scholarships and fellowships frequently call for field work placement in the agency giving the grant, and in some cases require an agreement relative to employment for one year following the holding of a grant.

*Federal Stipends*. Through grants from the United States Public Health Service, the Department offers traineeships of $1800 for first-year students, and $2000 for second-year students, to both men and women. The holders of such stipends must have career objectives in psychiatric social work.

Through grants from the Vocational Rehabilitation Administration, the Department offers traineeships of $1800 and $2000
(plus the cost of tuition) for first- and second-year students respectively. Holders of such stipends must have career objectives in rehabilitation. Traineeships of $2400 for the third year and $3600 for the fourth year of study (plus the cost of tuition) are also available from the United States Public Health Service to advanced students who meet certain requirements and are beginning work for the Ph.D. Application to the Department for such traineeships is necessary by November 1 of the year preceding the proposed year of study.

**Susan M. Kingsbury Research Assistantship**, a research assistantship of the value of $2200 with remission of tuition, will be granted to an advanced student, preferably a candidate for the degree of Doctor of Philosophy, who from either training or experience has knowledge of methods and techniques in social research. The holder of the Assistantship will give one-half time to the research of the Department, and one-half time to study and is not permitted to hold any other paid position.

**TRAVELLING FELLOWSHIPS**

*The Fanny Bullock Workman Travelling Fellowship*, value $2500-$2600, for a year of study or research abroad was established in 1927 by bequest of Fanny Bullock Workman and by gift of her husband, Dr. W. Hunter Workman. It is awarded to a candidate for the degree of Doctor of Philosophy at Bryn Mawr College who could not have the advantages of such a year without assistance. At the discretion of the Faculty, the fellowship for any one year may be divided between two students, or the same student may hold the fellowship for more than one year.

*The Anna Ottendorfer Memorial Research Fellowship* in Teutonic Philology and German Language and Literature, founded in 1907 by Mrs. Anna Woerishoffer of New York City in memory of her mother, is to be applied to the expenses of study and residence for one year at a German university. It is awarded annually on the basis of evidence regarding ability to conduct independent investigations in the fields of Teutonic Philology or German Literature to a candidate who has completed at least one year of graduate study at Bryn Mawr College. The choice of a university is determined by the holder's preference, subject to the approval of the Faculty.
The Ella Riegel Fellowship or Scholarship in Classical Archaeology was founded in 1937 by bequest of Ella Riegel. It is awarded on the recommendation of the Department of Classical and Near Eastern Archaeology and only to advanced students in this subject. It is given for study abroad but may, at the discretion of the Department, be used at Bryn Mawr College.

REGULATIONS FOR FELLOWS AND SCHOLARS

All holders of fellowships and scholarships are required to carry a full program of graduate work. Holders of fellowships are expected to give as much as an hour and a half a week to special work for their departments, and are not permitted to accept any other appointments. Holders of scholarships may, with the approval of the Dean of the Graduate School, make their own arrangements to do a limited amount of paid work. Each Travelling Fellow is asked to present a written report of her work during her year on the fellowship. This report should be sent about the first of March to the Dean of the Graduate School for transmittal to the student’s department.

THE HELEN SCHAEFFER HUFF MEMORIAL RESEARCH FELLOWSHIP

This fellowship is awarded for a year of research work in Physics or Chemistry at Bryn Mawr College. Candidates must be women who have demonstrated their ability for research. If other qualifications are equal among a number of candidates, preference will be given to a woman whose field of research overlaps the fields of Chemistry and Physics. This fellowship is normally awarded to a post-doctoral candidate to enable her to continue her research program. In such cases the stipend will be $4500. In exceptional cases, candidates engaged in important research who have not completed the work for the doctorate will be considered. For such students the stipend will be less, the amount to be determined on the basis of the candidate’s qualifications.

The Helen Schaeffer Huff Memorial Research Fellow has no duties except those connected with her own research, but she may arrange with the department in which she is working to do a small amount of teaching if she so desires.
EMMY NOETHER FELLOWSHIP IN MATHEMATICS

The Emmy Noether Fellowship was founded by gifts from many donors in memory of Emmy Noether who came to Bryn Mawr College from Germany in 1933 and who died April 14, 1935. It is open to women in the United States and in foreign countries who are advanced graduate students of Mathematics. It is awarded by the Department of Mathematics in Bryn Mawr College, and may be used, subject to the approval of the Department, at any institution in the United States or in a foreign country.

GRADUATE PRIZE

The Susan B. Anthony Memorial Prize, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered from time to time to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic or political position of women. The award is made by the Committee of which the President of the College is chairman. The value of the prize is determined by funds available from the income of the gift to the College.

PARTIAL TUITION GRANTS

The Trustees have established a small fund for partial tuition grants to students who are unable to undertake full-time graduate work. The grants are made on the basis of need as well as of high academic standing. Those interested in applying should provide the Dean of the Graduate School with full financial statements and ask the departmental chairmen to write their supporting letters.

GRANTS-IN-AID

Contributions to the Alumnae Fund by former graduate students have placed at the disposal of the Graduate Scholarships Committee a small fund from which grants-in-aid may be made. These grants, not to exceed $400, are given on the basis of need to holders of scholarships to help them meet college expenses. Application forms may be obtained from the Graduate Office; they should be submitted if possible by April 15.
GRADUATE ASSISTANTSHIPS

Teaching Assistantships are available to graduate students in the Departments of Biology, Chemistry, Education, Geology, Physics, Psychology and Social Work. The positions carry salaries of $2100-$2300 for half-time work ($1400-$1550 for one-third) and include free tuition for half to two-thirds time graduate work. They provide teaching and laboratory experience outside the classroom, mainly in the undergraduate laboratories.

Research Assistantships are available in Chemistry, Physics, Psychology and Social Work. These are usually for half-time work and provide half-time free tuition in addition to salaries of $2100-$2300.

Other Assistantships, usually for one-third time work and paying $1400-$1550, are offered in the Departments of Economics, Education, History, History of Art, Mathematics, Philosophy, Political Science, and Sociology and Anthropology. The duties of assistants differ in different departments. In all departments, the assistant is entitled to carry on graduate study for which tuition is remitted.
Loan Funds

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students to obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

Loans may be used for any purpose approved by the committee, who strongly recommend the borrowing of small sums to relieve undue financial pressure, or to meet special emergencies. As a rule, money is not loaned to students in their first semester of graduate work. Not more than $500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed $1500.

While the student is in College no interest is charged; after the student leaves College the interest rate is three per cent. The entire principal must be repaid within five years from the time the student leaves College at the rate of twenty per cent each year. Students who wish to borrow from the Loan Fund may obtain application blanks for this purpose from the Alumnae Office, The Deanery, Bryn Mawr, Pennsylvania.

The Mary Hill Swope Loan Fund was established June 1, 1945 by a gift of Mrs. Gerard Swope (Mary Hill, A.B. 1896) under the following conditions:

To assist in the education of young women irrespective of color or creed attending Bryn Mawr College, the income of the fund to be loaned to students in the following manner:

1. The following order of preference shall be observed in awarding such loans:
   a. To students coming from New Jersey.
   b. To students coming from Missouri.
   c. To students coming from any other location who have had not less than one year of residence at the College.

2. The loans in the above order of preference, and in the following manner, shall be awarded by the President of Bryn

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Mawr College, or by a Committee appointed by her from time to time.

3. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.

4. These loans shall be used primarily to enable the exceptional student to continue her studies which otherwise would be prevented through lack of means.

5. In the awarding of the loans, the recipient should understand that if in after years she is in a position to do so, she is to repay to the income account of the Loan Fund the amount so loaned to her, with or without interest. It is to be understood that this is entirely a moral obligation upon the recipient.

National Defense Student Loan Program—NDEA Title II. Loans are available to qualified graduate students under this Title. They are now open to half-time as well as full-time students and the partial loan cancellation has been extended to teachers in private non-profit schools and colleges. For information and forms write to the Dean of the Graduate School.

The Bureau of Recommendations

The College conducts a Bureau of Recommendations for alumnae, students, and former students. This Bureau offers an employment service for permanent, temporary, and part-time positions; gives assistance in choosing a vocation; and acts as a clearing house for letters of recommendation for those who have registered with the Bureau. These letters will be sent, upon request, to prospective employers, placement offices of other colleges, and employment agencies.

Students of foreign citizenship are advised that government regulations severely limit their employment in this country.
The Library

THE M. CAREY THOMAS LIBRARY containing over 310,000 volumes has a good working collection in all fields in which graduate study is offered. The collection includes back files and current numbers of over one thousand periodicals published in the United States and abroad. For the use of graduate students there are twelve seminar rooms and, in addition, a limited number of carrels in the stacks. The scientific libraries are described on page 53.

The open shelf system provides the maximum of free access to the stacks so that almost all books except those in the Rare Book Rooms are directly available to the students. The Reference Room, Bibliography Room and Periodical Room provide ready access to standard works of reference and current periodicals.

The Quita Woodward Memorial Room has been planned for recreational reading. The collection, now numbering about two thousand volumes, includes recent books in literature, art, religion and current affairs as well as many classics.

In the two Rare Book Rooms unusual bibliographical items are shelved and displayed: early printed books, manuscripts, first editions, fine press books, and association copies. Exhibitions of the Library's own material and material lent by friends of the Library are displayed here at intervals during the academic year. Here also are incunabula numbering over nine hundred volumes, the gift of Howard L. Goodhart. This collection, known as the Marjorie Walter Goodhart Medieval Library and consisting mainly of philosophical and theological works printed in the fifteenth century, is outstanding among college library collections.

Other facilities available to graduate students are the rich resources in the libraries of the Philadelphia area. Through the services of the Union Library Catalogue of Philadelphia situated at the University of Pennsylvania volumes in over 300 libraries within the area may be easily located. The Union Library Catalogue has recorded over 3,500,000 titles in the region by which research workers are aided in bibliographical problems outside
the scope of any one library. Through this channel the great collections of the University of Pennsylvania, the Free Library of Philadelphia, the Historical Society of Pennsylvania as well as the Library Company of Philadelphia, the American Philosophical Society, the Franklin Institute, the Academy of Natural Sciences, the College of Physicians, Swarthmore College and Temple University are made available on a courtesy basis. Graduate students who wish to use these or other libraries for purposes of reference should secure letters of introduction from the Bryn Mawr librarian.

**ART AND ARCHAEOLOGY COLLECTIONS**

A small but valuable group of original works of art, available for study, include Greek and Roman vases, ancient coins, sculpture, Oriental pottery and scrolls, prints, and modern American and European paintings. The Ella Riegel Museum of Classical Archaeology contains the Densmore Curtis Collection presented by Clarissa Dryden, part of the Hoppin Collection, the Elizabeth Washburn King Collection of Classical Greek coins, and the Aline Abaecherli Boyce Collection of Roman Republican silver coins, as well as various gifts from friends of the College. Professor Hetty Goldman has deposited the field records and photographic files of the excavations at Colophon (1922) and Tarsus (1934-39, 1946-47) with the Department of Archaeology. She also has given the Ella Riegel Museum an extensive study collection of pottery samples from the Tarsus excavations. For Far Eastern study the Chapin Collection of books, paintings, calligraphy, textiles, and ceramics includes material from Korea as well as from China and Japan. Western art is variously represented by several small collections, including the Howard L. Gray Collection of Modern Prints and the Neuberger Collection of Contemporary American Paintings.
Laboratories

LABORATORIES, classrooms and libraries for Biology, Chemistry, Geology, Mathematics and Physics are located in the three buildings of the Science Center. The third building in this complex, the building for the physical sciences, was completed in the summer of 1964. Laboratories and classrooms for Psychology remain in Dalton Hall.

In the Science Center the central building is the Marion Edwards Park Hall for Chemistry and Geology. Adjoining this building on the north is a building completed in 1958 for the biological sciences. South of Park Hall is the building for the physical sciences which provides additional space for Chemistry and Geology, all the laboratories for Physics and classrooms and a library for Physics and Mathematics.

In all three buildings in the Science Center and in Dalton Hall there are large laboratories and lecture rooms for undergraduate students and smaller seminar rooms and laboratories for graduate students. In addition to the usual equipment, the science departments have special apparatus and instruments needed in particular research projects by faculty and graduate students and acquired, in part, through the Plan for the Coordination of the Sciences and through research grants from industry and other private sources and from government agencies.

In the new building for the physical sciences there is a machine shop with expert machinists in charge and a student workshop available to graduate students. Rooms in the Biology Building were especially designed for work with radioactive materials, for microphotography and for glass blowing.

A Computing Center under the joint sponsorship of Haverford and Bryn Mawr Colleges is on the Haverford campus. It has an IBM 1620 computer and auxiliary record equipment, available for the use of students and faculty of both colleges.

The Geology Department makes available for study and research several important collections. On deposit from the U. S. Army Map Service are over 25,000 maps. The Department's large collection of minerals has been greatly enhanced by the gift of the Mineral Collection of George Vaux, Jr.
Health

THE INFIRMARY

THE COLLEGE maintains a modern 22-bed Infirmary with a full staff of physicians and nurses. The college physicians and psychiatrists may be consulted without charge by students who have paid the dispensary fee. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. If consultation is necessary the student must meet the expense. The Infirmary is open when college is in session and in the spring vacation. It is closed during the Christmas vacation.

The residence charge paid by each resident graduate student entitles her to treatment in the college dispensary, and to care in the Infirmary for seven days (not necessarily consecutive) during the year, to attendance by the college physicians during this time and to nursing, provided her illness is not contagious and is not sufficiently serious to require the services of a special nurse. After the seven-day period the fee is $12 for each day in the Infirmary. In case of contagious disease, special nursing is obligatory and the student must meet this expense.

Non-resident Fellows and Scholars whose homes are not in the neighborhood are required to pay a non-resident dispensary fee of $25, which entitles them to care and consultations by the college physicians and psychiatrists and to dispensary care. Other non-resident students may, if they so desire, pay this fee and receive the same benefits. Since non-resident students cannot be given bed care in the Infirmary they are urged to take out medical insurance.

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

CERTIFICATES REQUIRED

All graduate students, whether resident or non-resident, must file a physician's certificate stating that they have been vaccinated against smallpox during the year before entering the Gradu-
ate School and exhibited a typical or immune reaction to this vaccination. Resident students who have not filed this certificate will be vaccinated at the time of their entrance physical examinations and charged a fee of one dollar. Non-residents will not be permitted to register without this certificate. There is no exception to this rule.

In addition to the above, students applying for residence in the Graduate Center are asked to submit reports of recent medical and ophthalmological examinations signed by the appropriate physicians; evidence of immunization against diphtheria and tetanus, by toxoid, and against poliomyelitis within a year of entrance. A report of a Mantoux test is also required; if this is positive, the results of a chest X-ray must be submitted. The forms for these various certificates are supplied by the Office of the Dean of the Graduate School and are to be returned to the same office. If they have not been received by the time the student arrives in Bryn Mawr, the tests will be done here at the student's expense.

Any student with a health problem identified by her personal physician on the entering health form will be evaluated by the College Physician who will initiate such health supervision or consultation as is necessary.

**INSURANCE**

All resident and non-resident graduate students of Bryn Mawr College are entitled to subscribe to the Students' Reimbursement Plan, which provides for a substantial proportion of hospital care and medical fees. The cost of X-rays and special laboratory procedures is not included. The premium for this insurance is $15 for a full year starting October 1. Students should apply to the Comptroller of the College.

*Foreign Students.* The College also makes available a policy which provides much more adequate coverage of medical, surgical and hospital costs. This insurance is required of students whose permanent residence is not in the United States, unless they have equally complete protection of another kind effective in the United States. The cost for students under age 30 is about $45 for a twelve-month period, starting in mid-September.
Announcement of Courses
1965/1966

The Departments of the Graduate School offer the following seminars and graduate courses. It is the practice of most departments to vary the graduate courses and seminars from year to year. The announced order may be changed either because of changes in the teaching staff or in order to meet the needs of the students.

Square brackets enclosing the titles of courses indicate that, although the courses are regular parts of the program, they are not given in the current year.

Included in each Department announcement if they are offered, are undergraduate courses which can be expanded for graduate credit. Undergraduate courses in each Department are numbered according to the following system: 301, 302, etc. indicate advanced undergraduate courses; the letter "a", following a number, indicates a half-course given in the first semester; the letter "b", following a number, indicates a half-course given in the second semester; the letter "c", following a number, indicates a half-course given two hours a week throughout the year. For a full announcement of undergraduate courses see the Calendar of Undergraduate Courses.
Biology

Professors: L. Joe Berry, Ph.D., Chairman
Jane M. Oppenheimer, Ph.D.

Dean of the Graduate School and Professor: Eleanor A. Bliss, Sc.D.¹
Associate Professor: Robert L. Conner, Ph.D.
Assistant Professors: Audrey Barnett, Ph.D.
William G. Hopkins, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 30-36)

Prerequisites. An undergraduate major in Biology, Zoology or Zoology and Botany, including courses in General and Organic Chemistry. Some preparation in Mathematics and Physics is desirable. Students with majors in other subjects may be admitted but will be required to make up any deficiencies in their preparation in Biology before being admitted to graduate courses. All applicants for graduate work in Biology should submit scores in the Graduate Record Examination.

Major and Allied Subjects. Candidates for the M.A. and Ph.D. degrees may specialize in Biochemistry, Experimental Embryology, Genetics, Microbiology or Plant Physiology but must take work from areas not chosen for specialization. Allied subjects may also be selected from fields in Chemistry and Physics and in special cases, with the approval of the Graduate Committee, from other related fields.

Language Requirements. Candidates for the M.A. and Ph.D. degrees should offer French and German. Other languages may be accepted by special permission of the Department and the Graduate Committee.

Program and Examination for the M.A. One full year, or its equivalent, of course work in seminars or advanced undergraduate courses arranged for seminar credit and a written report on a piece of experimental work carried out under the direction of a member of the Department. Qualified students may substitute a unit of supervised research for formal course work. While the

¹ On partial leave of absence for the year, 1965-6.
work may be completed in one year by full-time students, it may be extended over two or more years and students with incomplete preparation may find such extension necessary. The Final Examination consists of a three-hour written examination covering the areas of study and an oral examination concentrating particularly on the interpretation and significance of the experimental problem.

Examinations for the Ph.D. The Preliminary Examination for the Ph.D. consists of three written examinations, each of four hours' duration, and an oral examination of one to two hours. These examinations will cover the areas included in the course work in the major and allied fields. After the subject of the dissertation has been decided, the student will meet with the faculty of the Department to outline and discuss the subject and the proposed plan of research. The Final Examination is oral, covering the subject of the dissertation in relation to general biological problems.

Seminars and Graduate Courses

Seminars are offered in the following fields. The topics considered in any year are selected in accordance with the needs and desires of the students enrolled.

Mr. Berry: *Microbiology and Physiology (offered in 1965-6)*
- Control of biological reactions.
- Mechanisms of defense against infectious diseases.
- Physiology of micro-organisms.

Miss Oppenheimer: *Developmental Biology (offered in 1965-6)*
- Factors controlling growth and differentiation.
- Nucleic acids and proteins in development.
- Morphogenesis in invertebrates and vertebrates.
- Embryonic induction.

Miss Barnett: *Selected Topics in Advanced Genetics (offered in 1965-6)*

Mr. Conner: *Biochemistry (offered in 1966-7)*
- Selected topics in intermediary metabolism.
- Biochemical techniques.
- Cellular Physiology.

Mr. Hopkins: *Photomorphogenesis (offered in 1966-7)*
- Chemical control of plant growth.
- Selected topics of plant metabolism.
Advanced Undergraduate Courses

Any advanced undergraduate course may be taken for graduate credit, provided that some additional work either in reading or experimentation is arranged with the instructor and completed by the student.

352. *Advanced Plant Physiology*: Mr. Hopkins.
353. *Biochemistry*: Mr. Conner.
[354. *Physiology of Micro-organisms*: Mr. Berry.]
[355. *Developmental Biology*: Miss Oppenheimer.]

Chemistry

**Professors:**

Ernst Berliner, Ph.D., Chairman
George L. Zimmerman, Ph.D.¹

**Associate Professors:**

Frank B. Mallory, Ph.D.
Joseph Varimbi, Ph.D.

**Assistant Professor:**

Jay Martin Anderson, Ph.D.

**Lecturers:**

Frances Bondhus Berliner, Ph.D.
Marian Pariseau, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 30-36)

Prerequisites. An undergraduate preparation in Chemistry including courses in general inorganic, analytical (qualitative and quantitative), organic and physical chemistry, college Physics and Mathematics (calculus). Under certain conditions advanced undergraduate courses may be taken for graduate credit.

Major and Allied Subjects. Students may specialize in either Organic, Inorganic or Physical Chemistry. The allied subject for the Ph.D. may be chosen from the fields of Biochemistry, Mathematics, Physics, Inorganic Geology and a branch of Chemistry different from that of the major subject. Other combinations may be accepted with the approval of the Graduate Committee and on the recommendation of the Department.

Language Requirements. Candidates for the M.A. or Ph.D. must offer German, and either French or Russian.

¹ On sabbatical leave for the year, 1965-6.
Program and Examination for the M.A. Candidates will usually offer one seminar in their special field, another seminar or advanced undergraduate course in Chemistry or an allied field and one unit of research. This unit consists of an experimental investigation carried out under the direction of a member of the Department. The Final Examination consists of a four-hour written examination, or a three-hour written and one-hour oral examination.

Program and Examinations for the Ph.D. Candidates will normally be expected to devote a large proportion of their time to the execution and interpretation of experimental work, carried out under the supervision of a member of the Department. They will usually take all seminars offered in their special fields during their stay at Bryn Mawr, in addition to such courses as will give them a broad background in Chemistry. The Preliminary Examination will normally be taken after the experimental work is well advanced. It consists of two four-hour written examinations, one of which is in the major subject and one in the minor subject, and a third, oral examination, which constitutes a defense of a number of research proposals which had been submitted previously by the student. Four such proposals are required, two of which may be related to the student’s thesis. For students who offer a minor subject in a department other than Chemistry, equivalent arrangements will be made after consultation with the Department. The Final Examination (oral) is devoted to the subject matter of the student’s dissertation.

Seminars and Graduate Courses

In order to meet the needs of the students and to offer them as wide a selection of topics as possible, the seminars are arranged in such a way that the same one is usually not repeated within a three-year period. The topics listed below are given in one-semester seminars, counting one half unit of credit each.

Mr. Anderson: Physical Chemistry

- Nuclear Magnetic Resonance.
- Introduction to Molecular Spectroscopy.
- Intermediate Quantum Mechanics.
Mr. Berliner: *Organic Chemistry*
Physical Organic Chemistry.
Physical-Organic Aspects of Aromatic Chemistry.

Mrs. Berliner: *Organic Chemistry*
Chemistry of Heterocyclic Compounds.
Natural Products.

Mr. Mallory: *Organic Chemistry*
Organic Photochemistry.
Radical Reactions.
Recent Methods in Organic Synthesis.

Miss Pariseau: *Physical Chemistry*
Statistical Thermodynamics.

Mr. Varimbi: *Inorganic and Physical Chemistry*
Inorganic Chemistry.
Theory of Solutions.

Mr. Zimmerman: *Physical Chemistry*
Photochemistry.
Introduction to Chemical Physics.
Applications of Group Theory in Quantum Mechanics.

*Biochemistry:* See under Biology.

**Selected Undergraduate Courses**

301b. *Inorganic Chemistry*: Miss Pariseau.

302 [a and b]. *Advanced Organic Chemistry*: Mr. Berliner, Mr. Mallory.

303a. *Chemical Thermodynamics*: Mr. Anderson.

309b. *Quantum Mechanics of Atoms and Molecules*: Mr. Anderson.


305b. *Advanced Inorganic Chemistry*: Mr. Varimbi.

*Colloquium.* All members of the Department and the graduate students, and often outside speakers, meet every week to discuss current research in chemistry.
Classical and Near Eastern Archaeology

Professor: Machteld Johanna Mellink, Ph.D., Chairman
Assistant Professors: Kyle M. Phillips, Jr., Ph.D.
Brunilde S. Ridgway, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 30-36)

Prerequisites. An undergraduate major in Archaeology or at least two courses in Archaeology combined with a major in Greek, Latin or History of Art. It is desirable that all students should have some knowledge of Greek.

Allied Subjects: Greek and Latin Language and Literature; an ancient Near Eastern Language and Literature; History of Art; Ancient History; Anthropology; a science integrated with the work of the major subject.

Language Requirements. For the M.A. and the Ph.D., a reading knowledge of German and one other modern foreign language.

Program and Examination for the M.A. Three units of work in Archaeology or in Archaeology and an allied field. The Final Examination is written, four hours.

Program and Examinations for the Ph.D. There is no fixed course of study or time requirement for the degree; but at least one of the preparatory years should be spent at some Mediterranean center such as Athens or Rome, and at least one summer should be devoted to European museums. (The Department has in its award the Riegel Fellowship for study abroad.) Before being permitted to take their preliminary examinations, candidates must satisfy their instructors that they are familiar with the general scope and method of archaeological study, including excavational research; that they know where the original source materials are; and that they can make practical use of bibliographical references. They must also satisfy the Department by written examination that they have a general reading knowledge of ancient Greek or an ancient Near Eastern language.

The Preliminary Examination consists of four four-hour papers in such special fields as Greek and Roman sculpture, architecture,
monumental painting, Greek vase painting, numismatics, topography of classical sites, Aegean prehistory, aspects of Near Eastern archaeology. One of the papers may be chosen from an allied subject; but none may deal with the same specific field as the dissertation, since this is included in the Final Oral Examination.

Excavations. The current excavation project of the Department is an investigation of the Bronze Age habitation of southwestern Asia Minor. Excavations at an Early Bronze Age site near Elmali in the interior of Lycia will continue in the fall of 1965.

Advanced graduate students will participate in the excavation which will be run as a field seminar in the first semester. The program provides instruction in excavation techniques combined with the study of Bronze Age problems in the Aegean and western Anatolia. Publication of the excavation results will be prepared on the basis of the joint field reports by the participants.

Cooperation with the Department of Classical Archaeology at the University of Pennsylvania. Attention is drawn to the courses in Classical Archaeology offered by the University. Under the Reciprocal Plan, students may register for a unit of work at the University or pursue research at the University Museum.

Seminars and Graduate Courses

The seminars offered in 1965-6 are the following:

Miss Mellink: Field seminar in Aegean and Anatolian Archaeology (Excavations in Lycia, semester I).

Problems in Minoan Archaeology (Seminar at Bryn Mawr, semester II).

Mrs. Ridgway: Greek Architectural Sculpture.

Mr. Phillips: Attic Red-figured Vase Painting.

Advanced Undergraduate Courses

201b. Egypt and Mesopotamia: Miss Mellink.

203a. Greek Sculpture: Mrs. Ridgway.

203b. Later Greek and Roman Sculpture: Mr. Phillips.

205b. Aegean Archaeology: Miss Mellink.

301a. Greek Vase-Painting: Mr. Phillips.

301b. Ancient Architecture: Mrs. Ridgway.

303. Anatolian and Syrian Archaeology: Miss Mellink.

304a. Ancient Monumental Painting: Mr. Phillips.
Comparative Philology and Linguistics

Visiting Professor of French: William J. Roach, Ph.D.
Assistant Professor of English: Robert B. Burlin, Ph.D.
Lecturer in German: Nancy C. Dorian, Ph.D.
Professor of Italian: Appointment to be announced

Comparative Philology may be offered as an allied subject for the Ph.D. but not as a major subject. For courses in Philology, see statements under the Departments of English, French, German, Italian and Spanish.

Economics

Professors: Morton S. Baratz, Ph.D., Chairman
Joshua C. Hubbard, Ph.D.

Assistant Professors: Richard B. Du Boff, Ph.D.
George I. Treyz, A.B.

Special Requirements for Graduate Work
(for the general requirements, see pp. 30-36)

Prerequisites. An undergraduate major in Economics, with work in such related fields as History and Political Science. Applicants with majors in other disciplines will be admitted but may first be required to pass a qualifying examination, consisting of a three-hour paper in theoretical economics at the level maintained for final-year undergraduates in Economics at Bryn Mawr College. Students whose undergraduate training in Economics is not entirely adequate may be required to take such undergraduate courses as the Department thinks necessary. Under certain conditions, advanced courses may be taken for graduate credit.

Allied Subjects. Most subjects in the other social sciences, and in History and Philosophy, are acceptable as allied work. Mathematics, Statistics, and Accounting are not only acceptable as allies but are necessary to advanced work in Economics. Courses in these subjects, when not offered at Bryn Mawr, may be taken at the University of Pennsylvania under the Reciprocal Plan.
Economics

Language Requirements. For the Ph.D. two modern languages. For the M.A. two modern languages or one modern language and either advanced mathematics or econometric analysis.

Admission to the Ph.D. Program

Students holding only the B.A. degree or its equivalent in Economics must apply initially for M.A. candidacy. In exceptional cases, M.A. candidates will be permitted, at the end of not less than three semesters of formal course work and research at Bryn Mawr, to proceed directly toward the Ph.D.

Students holding a Master's degree in Economics from other institutions may be required to pass a qualifying examination before admission to the Graduate School. Those who have been admitted to the Ph.D. program are eligible to apply for candidacy for the Ph.D. when they have completed two full units of graduate work at Bryn Mawr.

Program of Study

The M.A. degree. It is expected that the work for the M.A. degree will require not less than one calendar year of graduate study. All candidates for the M.A. degree must complete three units of formal course work (seminars, courses, supervised units) prior to submitting the M.A. research paper. One of these units must be in Economic Theory, one in Econometrics and one in the student's special field of interest (e.g., Economic Development, Money and Banking, Economic History). Course examinations in each of these three fields must be passed before the candidate presents the research paper. After acceptance of the paper a final examination, consisting of a written paper and a brief oral examination, must be passed.

The Ph.D. degree. Candidates for the Ph.D. will take as much formal course work as is necessary to prepare them for the Ph.D. Examinations. The Preliminary Examination will consist of four three-hour written papers and an oral examination; one of the written papers will be in Economic Theory and one in Economic History; the other two papers will be in fields related to the candidate's major interest. The Final Oral, taken after the dissertation has been accepted, will be devoted to the subject matter of the dissertation.
Seminars and Graduate Courses

Mr. Baratz:
- *Microeconomic Theory.*
- *Industrial Organization and Markets.*
- *Corporate Enterprise and Public Policy.*
- *Economics of Underdevelopment.*

Mr. Du Boff:
- *Comparative Economic Systems.*
- *Economic Development: U.S. and Western Europe.*
- *International Economics.*

Mr. Hubbard:
- *Macroeconomic Theory.*
- *Theories and Problems of Economic Change.*

Mr. Treyz:
- *Statistics and Econometrics.*

Education and Child Development

President of the College: Katharine Elizabeth McBride, Ph.D.

Professor and Director, Child Study Institute: Rachel Dunaway Cox, Ph.D., Chairman

Assistant Professors: Ethel W. Maw, Ph.D.
- David P. Nowlis, Ph.D.

Lecturer and Director, Thorne School: Dianne Warner, M.A.

Associate Professors of Social Work and Social Research: Jean D. Haring, M.A., M.S.W.
- Jeanne C. Pollock, M.S.W.

Special Requirements for Graduate Work
(for the general requirements, see pp. 30-36)

The program prepares students for college teaching and research in Educational Psychology and Child Development, for
child guidance, for school psychology, school counseling and for teaching in the schools. The training is carried on in a setting of service to public and laboratory schools and the community at large. Classes, seminars and staff conferences provide opportunity for students from several related disciplines to develop competence in the team approach to the children's specialties in education, psychology and guidance agencies. Trends in physical, intellectual and emotional growth from infancy to maturity are stressed. Emphasis is upon learning in the family and the school.

Work leading to the certificate to teach in the public secondary school is open to students who present some preparation in Psychology and are qualified in a subject matter field. Foundation work for teaching in the elementary school is available. A sequence leading to specialization in elementary school counseling with supervised field work in selected schools is open to qualified students.

Prerequisites. An undergraduate preparation in the liberal arts which must include work in General Psychology. Students whose undergraduate training in Psychology is not adequate will be required to take such undergraduate courses as seem necessary. Applicants for admission are asked to submit scores of the Graduate Record Examination in Verbal and Mathematical aptitudes.

Major and Allied Subjects. Candidates for advanced degrees are expected to become competent in several different areas: child development, learning, measurement and guidance, secondary education, the school as a social institution, and history and philosophy of education. For the M.A., two fields are required. For the Ph.D., five fields must be presented. The allied subject may be chosen from the fields of Psychology, Sociology, Anthropology or Philosophy.

Requirements in Languages and Statistics. French and German, for the Ph.D.; candidates for the M.A. must either (1) pass examinations in French and German or (2) pass an examination in French or German and demonstrate a working knowledge of statistics. Candidates for the Ph.D. will be required to demonstrate a working knowledge of statistics. The statistics requirement for both degrees may be satisfied by passing an approved course or an examination.

Program and Examination for the M.A. Candidates will normally offer three units of graduate work in Education, although
one of three may be taken in an allied field. A paper embodying the results of independent research is required. The Final Examination consists of two three-hour written examinations, one in each field offered and a one-hour oral examination on the M.A. paper.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers and an oral examination on the fields presented. One of the written papers may be in the allied field. The Final Examination is in the field of the dissertation.

THE PHEBE ANNA THORNE SCHOOL AND THE CHILD STUDY INSTITUTE

The Phebe Anna Thorne School is maintained by the Department as a laboratory nursery school for normal children where students may observe and assist in the program for three- and four-year olds. For those preparing for teaching, medical work with children, child welfare or guidance, the school provides opportunity for direct experience with early child development.

The Department also operates the Child Study Institute, a psychological and guidance center where problems of learning and behavior are studied and remedial measures planned and carried out for parents and children. The service is given by a staff of qualified specialists in child psychiatry, psychology, social case work and remedial teaching. Advanced students participate at various levels of responsibility. Referrals from the neurological and pediatric departments of the Bryn Mawr Hospital, from physicians, social agencies and families give students the opportunity for acquaintance with a diversity of clinical material.

A separate building on the college grounds houses the Thorne School and the Institute with rooms equipped for nursery school teaching and for individual examination of pupils, remedial teaching, play therapy and student observation.

SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following:

Miss McBride:

_The American School._
Mrs. Cox:
*Advanced Clinical Evaluation (including the Projective Techniques).
Elementary School Counseling.
*The Individual.
Problems of Child Development.
Adolescent Development.

Mrs. Warner:
*Developmental Psychology.
*Early Childhood Education.
*Growth and Learning in the Kindergarten.

Mrs. Maw:
Educational Psychology.
Curriculum of the Elementary School.
History and Philosophy of Education.
*Research and Measurement in Education and Child Development.

Mr. Nowlis:
*The Psychology of Exceptional Children.
*Learning Problems.
The Social Psychology of the School.

Mrs. Pollock and Miss Haring:
Social Case Work (given in cooperation with the Department of Social Work and Social Research).
Supervised counseling experience in the public school: 12 hours per week for two semesters.

Selected Undergraduate Courses

201a. Educational Psychology: Mr. Nowlis.
[202a. Child Psychology: Mrs. Cox.]
Prerequisite: General Psychology. Experience in the Phebe Anna Thorne School required, two hours per week.


These two courses, 301a and 302a, satisfy the practice-teaching requirement of most states. Plans for registration should

* Laboratory practice required.
be made in the spring or summer before the student expects to take the course so that appropriate arrangements can be made. Laboratory: 12 hours per week supervised teaching.

Certificate to Teach

Requirements for the state certificate to teach in the public secondary school can be met by the appropriate selection of courses in this Department. Though each state has its own requirements, most follow the same pattern, namely the Bachelor of Arts degree with emphasis upon a content area offered in the secondary school plus eighteen semester hours of professional preparation for teaching. At Bryn Mawr the suggested sequence includes General Psychology followed by Principles of Teaching and Educational Psychology. The student then takes either History and Philosophy of Education or Child Psychology, depending upon her interest and prior training. Required of all is Principles of Teaching in the Secondary School which includes as its laboratory, twelve hours a week of supervised practice teaching in the public school.

Much of the basic work leading to the elementary school certificate is offered by the Department. Additional required courses may be taken at the University of Pennsylvania.

Fulfillment of certification requirements does not fully satisfy requirements for the Master of Arts degree, but because there is some overlap, an able full-time student can meet the requirements for both the certificate and the degree in three semesters.

English

Professors: Mary Katharine Woodworth, Ph.D.

Chairman

K. Laurence Stapleton, A.B.

Warner B. Berthoff, Ph.D.¹

Associate Professor: Isabel Gamble MacCaffrey, Ph.D

Assistant Professors: Robert B. Burlin, Ph.D.

Catherine Rodgers, Ph.D.

Eleanor Winsor Leach, Ph.D.

Peter J. Leach, M.F.A.

Visiting Lecturer: Robert Y. Turner, Ph.D.

Lecturers: Joan L. Klein, Ph.D.

Robert L. Patten, Ph.D.

Instructor: Patricia H. Russell, Ph.D.

¹. On partial leave of absence for the year, 1965-6.
English

Special Requirements for Graduate Work
(for the general requirements, see pp. 30-36)

Prerequisites. An undergraduate major in English (or its equivalent) consisting of a critical and historical study of several periods of English Literature. Students working in the medieval period must have a reading knowledge of Latin. For other students this is strongly recommended. Students must have had some training in at least one other field of the humanities: a classical or a modern foreign literature, History, the History of Art or Philosophy. All applicants for graduate work in English should submit scores in the Graduate Record Examination.

Allied Subjects. Any language and literature, classical or modern European; English Philology; American Literature; Philosophy; History, medieval or modern; and the History of Art.

Language Requirements. French and German. In special cases, another modern language may be substituted for German, by permission of the Department. Ph.D. candidates will be expected to present evidence of a knowledge of Latin equivalent to two years of high school training. This requirement must be satisfied before the candidate takes the Preliminary Examination for the Ph.D.

Program and Examination for the M.A. Three units of work in English or two in English and one in an allied field. The Final Examination is written, four hours in length. The M.A. paper is due on May 1.

Program and Examinations for the Ph.D. Candidates for the Ph.D. in English will be expected to spend at least one year in full-time graduate work in the Department. The equivalent of six units of graduate work is required, one of which may be in an allied field. The program must include some training in Old English or in the History of the English Language, unless a special exception is granted. The Preliminary Examination is in five parts: four written (from three to four hours each) and an oral (one to two hours). The candidate whose major interest is in the medieval period must take at least one examination in the modern period; the candidate whose major interest is in the modern period must take at least one examination in the medi-
eval period. One examination may be in an allied field. The Final Examination (oral, from one to two hours) is in the field in which the candidate has written the dissertation.

SEMINARS AND GRADUATE COURSES

English Literature

Mr. Burlin:
1965-6: Chaucer and His Contemporaries.
1966-7: Old English Literature.

Mrs. MacCaffrey:
1966-7: Spenser and Sixteenth-Century Poetry.

Mr. Turner:
1965-6: Shakespeare.

Miss Stapleton:
1966-7: Milton.

Miss Woodworth:
1965-6: Literature of the Eighteenth Century.
1966-7: Contemporary Literature.

Mr. Patten:
1965-6: The Victorian Period.

Mr. Berthoff:

SELECTED UNDERGRADUATE COURSES

201. Chaucer: Mr. Burlin.
203. The Romantic Period: Mr. Patten.
[204. The Victorian Period: Mr. Patten.]
[206b. Restoration Drama and the Age of Dryden: Mrs. Klein.]
207. English and American Literature of the Last Half-Century: Miss Woodworth.
208. American Literature: Mr. Berthoff.
212b. Blake: Miss Woodworth.

1. Since seminars run through the year, students must begin work in the first semester.
French

301. Narrative, Plays and Lyrics of the Later Middle Ages:
Miss Rodgers.

302. The Sixteenth Century: Mrs. MacCaffrey.

303a. Elizabethan and Jacobean Drama: Miss Russell.

304. The Seventeenth Century: Miss Stapleton.

[305. The Eighteenth Century: Miss Woodworth.]

French

Professor: Mario Maurin, Ph.D., Chairman

Visiting Professor: William J. Roach, Ph.D.

Associate Professor: Michel Guggenheim, Ph.D.¹

Assistant Professor: M. Pauline Jones, Ph.D.

Instructor: Ellen Ginsberg, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 30-36)

Prerequisites. An undergraduate major in French, based on study in school and at least three years of college French, including some advanced work in literature, with evidence of ability to present reports and carry on discussion in French. Training in Latin corresponding to at least two years' study in school.

Major and Allied Subjects. Students specialize in Modern French Literature. In general, it is required that Old French Philology and Literature be offered as the allied subject. In special cases and with the consent of the Department, one of the following may be accepted as an allied subject: any literature, ancient or modern; Comparative Philology; European History; Philosophy; History of Art.

Language Requirements. German, and either Italian or Spanish. Candidates for the M.A. may substitute for the Italian or Spanish examination evidence of extensive training in Medieval Latin or Advanced Classical Latin.

Program and Examination for the M.A. Candidates will offer two units of graduate work in French and a third unit, graduate or undergraduate, in either French or an allied field. An M.A. paper on a topic related to the work in one of the seminars is required. The Final Examination consists of a three-hour written examination and a one-hour oral examination, both in French.

¹. On sabbatical leave for semester II, 1965-6.
Program and Examination for the Ph.D. The Preliminary Examination consists of four papers written in French, and an oral examination. Usually one paper is in Old French Philology and Literature. If another allied subject is offered, questions on Old French Philology and Literature will be included in one of the fields of the major examination papers. The Final Examination is oral and covers the field in which the dissertation has been written.

SEMINARS AND GRADUATE COURSES

The introductory course in Old French is offered every two years. Students wishing further work in Old French may attend graduate courses at the University of Pennsylvania. Graduate seminars in selected fields of Modern French Literature are given in each year, so arranged that the same one will not be given in successive years. The seminars, which are conducted in French, are selected from the following:

Old French

Mr. Roach:
*Introduction à la littérature du moyen age, présentation systématique des éléments de grammaire historique.*

Modern French Literature

Mr. Guggenheim:
*Le moi dans la littérature française de Montaigne à Gide.*
*Moralistes du XVIIe Siècle.*
*Rousseau et le Préromantisme.*
*Balzac et Flaubert.*

Miss Jones:
*Baudelaire.*
*Scève et Mallarmé.*
*Origines de la poésie moderne.*

Mr. Maurin:
*Aspects de la solitude dans la littérature française.*
*Rabelais et Montaigne.*
*Arts Poétiques de Mallarmé au Surréalisme.*
*Gide et Mauriac.*

Mrs. Ginsberg:
*Aspects de la poésie au XVIe Siècle.*
*La tradition philosophique au XVIIIe Siècle.*
Journal Club. During the year members of the Department and graduate students meet at intervals to discuss research in progress, or recent books and articles of interest. Some of these meetings are held jointly with the Departments of Italian and Spanish.

Selected Undergraduate Courses

301. French Lyric Poetry: Mrs. Ginsberg, Miss Jones.
[302. French Drama: Mrs. Ginsberg, Miss Jones.]
[303. The French Novel from 1700 to 1950: Mr. Maurin, Mr. Guggenheim.]
304. French Essayists and Moralists: Mr. Guggenheim, Mr. Maurin.

Geology

Professors: Edward H. Watson, Ph.D., Chairman
Lincoln Dryden, Ph.D.
Dorothy Wyckoff, Ph.D.

Assistant Professors: Maria Luisa B. Crawford, Ph.D.
William A. Crawford, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 30-36)

Prerequisites. A course in General Geology and at least one course from each of the larger fields: Physical Geology and Paleontologic-stratigraphic Geology. Training in the allied sciences of Physics, Chemistry, Biology and Mathematics is necessary.

Major and Allied Subjects. Students may specialize in the fields typified by: Mineralogy-Petrology, Paleontology-Stratigraphy or Regional and Structural Geology. The allied subject for the Ph.D. may be either another field of Geology or any one of the other natural sciences or Mathematics; other subjects may be accepted in special cases.

Language Requirements. For the M.A. and the Ph.D., German and one other modern language.
Program and Examination for the M.A. Three units of work, of which one will usually be a special piece of field or laboratory research. The Final Examination consists of a four-hour written test and a one-hour oral.

Program and Examinations for the Ph.D. Candidates will spend a major proportion of their time on a research problem; ordinarily, this will involve field mapping and collecting, together with laboratory study. The number of units of class work to be taken will depend on the student's preparation. The Preliminary Examination will test general background in Geology, the candidate's special field and either an allied subject or an additional field in Geology.

Seminars and Graduate Courses
At least three seminars are offered each year, to be selected from the following:

Mr. Watson, Miss Wyckoff, Mr. Crawford: Petrology
Selected subjects in the structure, physical chemistry and origin of the igneous rocks.

Miss Wyckoff, Mrs. Crawford: Metamorphism
The physical and chemical processes of metamorphism, accompanied by regional studies.

Miss Wyckoff, Mr. Crawford, Mrs. Crawford: Petrographic Methods
This is largely a course in laboratory instruction and in general will accompany the seminars in Petrology and Metamorphism. Special techniques such as the universal stage, X-ray analysis, mechanical separations from rocks and petrofabric analysis will be taught.

Mr. Dryden: Stratigraphy
A study of selected theoretical and practical problems of correlation. Usually conducted in connection with a field problem.

Mr. Watson, Mr. Crawford: Structural Geology
The analysis of regional structures, generally undertaken with reference to a field problem.
Mr. Watson, Mrs. Crawford: Mineralogy
   The optical, chemical and X-ray study of selected mineral groups.

Mr. Dryden: Sedimentation
   A study of the origin of sedimentary rocks; their source, transportation and deposition.

Mr. Crawford: Geochemistry
   Experimental physical chemistry, phase equilibria, and the distribution and behavior of the elements as applied to geologic problems.

Selected Undergraduate Courses
[301. Structural and Field Geology: Mr. Watson.]
302. Stratigraphy: Mr. Dryden.
303. Optical Mineralogy (first semester) and Petrology (second semester): Miss Wyckoff, Mrs. Crawford.

German

Professor: CHRISTOPH E. SCHWEITZER, Ph.D.¹
Associate Professor: HUGO SCHMIDT, Ph.D., Acting Chairman
Lecturer: NANCY C. DORIAN, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 30-36)

Prerequisites. An undergraduate major or minor in German or an equivalent preparation.

Major and Allied Subjects. Students may specialize in either German literature or Germanic philology. One of these two fields or an area in the humanities, especially the literatures, may serve as the allied subject.


Program and Examination for the M.A. The program consists of one or two courses in literature and one in philology. The third

¹. On sabbatical leave for the year, 1965-6.
unit may be in an allied field. In addition to acquainting the student with the field in general, the M.A. program introduces various methods of literary criticism. Every candidate must present a paper which represents satisfactory evidence of independent research. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Program and Examination for the Ph.D. Every candidate must fulfill certain requirements in German literature and Germanic philology. Those majoring in Germanic philology will select the following courses: History of the German language, Gothic, Old High German, and one of the following: Old Saxon, Old English, or Old Norse. Work in Comparative Indo-European, structural linguistics, and a non-Indo-European language is recommended. Those majoring in German literature will normally take one unit each in the medieval, classical, and modern periods, as well as at least one genre course. Under the guidance of members of the Department each student will engage in independent reading and research to supplement the course work. The Department encourages interdepartmental research projects and draws attention to the Ottendorfer Research Fellowship for study at a German university. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination.

Seminars and Graduate Courses

The courses offered are selected from the following:

Mr. Schweitzer:
German Baroque Literature.
Goethe and Schiller.
The "Bildungsroman."

Mr. Schmidt:
Lyric Poetry Since Goethe.
The Modern German Novel.
Methods of Literary Criticism.

Miss Dorian:
Linguistics.
Germanic Philology.
Middle High German Literature.
Greek

Selected Undergraduate Courses

[301. Introduction to Germanic Philology: Miss Dorian.]
[302. German Language and Literature of the Middle Ages: Miss Dorian.]
[303. The Classics of the Nineteenth Century: Mr. Schmidt.]
[304. Modern German Literature: Mr. Schmidt.]
[305a. The German "Novelle": Mr. Schmidt.]
[306. The German Drama: Mr. Schweitzer.]
[307b. German Poetry: Mr. Schmidt.]
[308. Introduction to Linguistics: Miss Dorian.]

Greek

Professors: Richmond Lattimore, Ph.D., Litt.D.
Mabel L. Lang, Ph.D., Chairman

Instructor: T. Leslie Shear, M.A.

Special Requirements for Graduate Work
(for the general requirements, see pp. 30-36)

Prerequisites. An undergraduate major or minor in Greek, based on at least four years of college Greek, or the equivalent, with representative reading from Greek literature and history which, in the opinion of the Department, provides an adequate basis for graduate work. It is expected that all graduate students in Greek will have some knowledge of Latin.

Allied Subjects. Any literature, ancient or modern, Ancient History, Ancient Philosophy, Classical Archaeology, Comparative Philology.

Language Requirements. French and German.

Program and Examination for the M.A. The program consists of two units of graduate work in Greek and a third unit in an allied field. Before admission to the Final Examination candidates must pass an examination in Greek sight translation. The Final Examination consists of a three-hour written examination and an oral examination of one hour.
Examinations for the Ph.D. Before admission to the Preliminary Examination candidates must pass a rigorous examination in Greek sight translation. The Preliminary Examination consists of four written papers, one of which shall be in an allied subject, and an oral examination. The fields from which the three major papers may be selected include: Epic Poetry, Lyric Poetry, Tragedy, Comedy, the Orators, the Historians, the Pre-Socratics, Plato and various periods of Greek history.

Seminars and Graduate Courses
Miss Lang, Mr. Lattimore:
Homer.
Mr. Lattimore, Miss Lang:
Herodotus.

Selected Undergraduate Courses
201. Plato, Thucydides and Tragedy: Mr. Shear.
301. Hesiod, Lyric Poetry and Comedy: Mr. Lattimore.

History

Professors:  
CAROLINE ROBBINS, PH.D.  
ARTHUR P. DUDDEN, PH.D.,  
Acting Chairman

Assistant Professors:  
CHARLES M. BRAND, PH.D.  
MARY MAPLES DUNN, PH.D.  
BARBARA M. LANE, PH.D.  
ALAN SILVERA, PH.D.

Visiting Lecturers:  
EDWARD A. DOWNEY, JR., TH.D.  
JOHN D. SPIELMAN, JR., PH.D.

Special Requirements for Graduate Work  
(for the general requirements, see pp. 30-36)

Prerequisites. A good undergraduate preparation in general History, the humanities and the social sciences. Students who wish to work in seminars in the ancient or medieval fields must be able to read Latin. Those planning work in Modern European History must have a reading knowledge of one modern language, preferably French or German.

History

Major and Allied Subjects. Students may work in Ancient, Medieval or Modern European History as well as in English and American. Most subjects in the field of History, social science, literature and the humanities will be accepted as allied work provided the student's general preparation is acceptable.

Language Requirements. Two languages are required for the M.A. and for the Ph.D. degree. Preference is given to French and German and substitutions for either of these languages may be made only with the consent of the Department.

Program and Examination for the M.A. The program consists of three units of work in History or in History and an allied field. The Final Examination is written and usually four hours in length.

Program and Examinations for the Ph.D. All students are expected at some time to take a seminar or course in which some aspects of historiography and historical method are studied. The Preliminary Examination tests the student's competence in four general fields of History, or in three fields of History and one field in an allied subject. For example, work in Medieval Literature, Art or Philosophy is usually recommended to students of Medieval History and one of these may be offered in the Preliminary Examination. Students whose dissertations are in American History will be required to take at least two fields in European History. Students specializing in English History must offer at least two fields of Medieval or Modern European History for examination.

Seminars and Graduate Courses

The seminars are arranged to allow the fullest possible choice for students over a two- or three-year period of study. Normally the same seminar will not meet two years in succession. Topics listed below indicate the area in which seminars will be offered according to the needs of students.

Medieval and Renaissance History
Mr. Brand: The Twelfth Century.

British History
[Miss Robbins: Topics in the History of the Period 1649-1875.]
Each year a selected period is studied: e.g., Restoration, Revolution, Septennial Parliament, the age of Gladstone and Disraeli.
American History
Mrs. Dunn: Topics in Colonial and Early National History.
Mr. Dudden: Topics in the History of the United States.

Modern European History
Mr. Dowey: Varieties of Reform and the New Orthodoxy of the Sixteenth Century.
[Miss Robbins: Eighteenth Century Life and Thought.]
[Mrs. Lane: Topics in the History of the Twentieth Century.]  
Mr. Silvera: The French Third Republic.
Mrs. Dunn: Historical Method, Semester I.
Mrs. Dunn: Great Historians, Semester II.
Journal Club. Faculty and students of the Department, and occasionally members of the Departments of Economics and Political Science, meet four or five times a year to discuss research in progress, or recent books and projects, or to meet visiting scholars.

Selected Undergraduate Courses

208. Byzantine Empire: Mr. Brand.
301. Europe in the Twentieth Century: Mrs. Lane.
303. Recent History of the People of the United States of America: Mr. Dudden.
[304a. The Victorians: Miss Robbins.]
305. Renaissance and Reformation: Mrs. Lane.
306a. The Enlightenment: Mr. Spielman.
307a. Age of Revolution: Mrs. Dunn.

History of Art

Professor: Charles Mitchell, M.A., B.Litt.¹
Associate Professor: James E. Snyder, M.F.A., Ph.D., Acting Chairman
Assistant Professors: Charles G. Dempsey, M.F.A., Ph.D.
Anne Coffin Hanson, Ph.D.
Visiting Lecturer: Stella Kramrisch, Ph.D.
Instructor: John T. Paoletti, M.A.

¹. On sabbatical leave for the year, 1965-6.
History of Art

Special Requirements for Graduate Work
(for the general requirements, see pp. 30-36)

Program for the M.A. This consists of (a) three units of graduate work, one of which may be in an allied field; (b) an extended paper on a topic chosen in consultation with the Department; (c) a Final Examination (written or written and oral) to test the candidate's ability to place the topic chosen under (b) in the general context of the history of art.

Program for the Ph.D. Prime emphasis is placed on a program of research leading to a dissertation. A Preliminary Examination in four art-historical subjects (or in three art-historical subjects and one allied subject), consisting of four written papers and an oral examination, must be satisfactorily completed.

Allied Subjects. To be determined in consultation with the Department, according to the needs of the individual research program.

Prerequisites. The normal prerequisite for admission is a training in art history, but students with special abilities, or sound training in cognate disciplines, are also admitted.

Languages. Students are expected to read or to be learning the languages necessary for their special fields of study and not to delay their research by lack of linguistic competence. Advanced study of western art-history normally involves a working knowledge of Latin, French, German and Italian.

Seminars and Graduate Courses

Mr. Snyder:
Early Christian Mosaics.
Problems in Medieval Painting.

Mrs. Hanson:
Manet.

Mr. Dempsey:
Poussin.
Selected Undergraduate Courses

311a. Flemish Painting: Mr. Snyder.
312a. Michelangelo: Mr. Paoletti.
314b. Manet and Nineteenth Century Painting: Mrs. Hanson.
205b. Indian Art from the Third Millenium B.C. to the Sixth Century A.D.: Miss Kramrisch.
(Note: Undergraduate 200 courses on Medieval, Renaissance, Baroque and Modern Art are open, if modified, to graduate students.)

History of Religion

Visiting Lecturer in
History of Religion: Morton S. Enslin, Th.D., Chairman

Associate Professor of Philosophy: Jean A. Potter, Ph.D.
Instructor: Margaret Healy, M.A.

No graduate work is offered in History of Religion.
The courses listed are open to graduate students and may be taken for graduate credit with permission of the major Department.

Undergraduate Courses

[101b. History of Christian Thought.]
103. Literary History of the Bible: Mr. Enslin.
201a. History of Ancient Israel: Mr. Enslin.
201b. Christian Beginnings: Mr. Enslin.
[202. Man and His Religions.]
[203b. Medieval Philosophy.]
204a. Philosophy of Religion: Miss Potter.
This course is also listed as Philosophy 204a.
205b. Biblical Ideas and Institutions: Mr. Enslin.
304b. Thomas Aquinas: Miss Healy.

Italian

Professor: Appointment to be announced
Assistant Professor: Bernard Toscani, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 30-36)

Prerequisites. An undergraduate major or minor in Italian or its equivalent in ability to read, write and speak Italian together with a knowledge of Italian classical literature which, in the opinion of the Department, provides an adequate basis for graduate work.

Allied Subjects. Any language or literature, European History, History of Art, Philosophy, Music, Political Science; other fields of importance for the candidate's work will be considered.

Language Requirements. French and German. In exceptional cases, determined by the special interests of the student, Latin or another language may be substituted for one of the two required languages.

Program and Examination for the M.A. Three units of work in Italian or in Italian and an allied field. The Final Examination consists of one of the following: a three-hour written examination and an oral examination of one hour, a written examination of from four to six hours, or an oral examination of not less than one hour.

Examination for the Ph.D. The Preliminary Examination consists of four written papers and an oral examination. One paper must be in the field of Provençal, preferably Provençal and Old French. One paper may be in an allied field determined by the special interests of the student. Before taking the Preliminary Examination the candidate must demonstrate proficiency in spoken Italian.

Seminars and Graduate Courses

Normally the same seminar does not meet two years in succession and is usually not repeated within a three-year period.
Old Italian.
Provençal.
Dante.
The Renaissance.
Literary Criticism.
Manzoni.
Romanticism.
The Thought of Luigi Sturzo.

SELECTED UNDERGRADUATE COURSES

[201. Classics in Italian Literature.]
[202. Dante.]
[302c. The Italian Language.]
303. Italian Literature of the Rinascimento: Instructor to be announced.
[304. Italian Literature of the Romantic Period.]

Latin

Professor: Agnes Kirsopp Michels, Ph.D., Chairman
Associate Professor: Myra L. Uhlfelder, Ph.D.
Assistant Professor-elect: Russell T. Scott, Ph.D.¹
Instructors: Francis J. Esterhill, M.A.
            T. Leslie Shear, M.A.

Special Requirements for Graduate Work
(for the general requirements, see pp. 30-36)

Prerequisites. An undergraduate major or minor in Latin, based on study in school and at least three years of college Latin, part of it in advanced courses; representative reading from Latin Literature of the classical period which, in the opinion of the Department, provides an adequate basis for graduate work. It is desirable that all graduate students in Latin should have some knowledge of Greek.

¹. Appointment to begin 1966-7.
Allied Subjects. Any literature, ancient or modern, including Medieval Latin Literature; Ancient History and, for students whose major interest is Medieval Latin, Medieval History; Classical Archaeology; Linguistics. For most students the Department recommends Greek as the allied subject.

Language Requirements. French and German. In addition a reading knowledge of Greek is required for the Ph.D.

Program and Examination for the M.A. Candidates will normally offer two units of graduate work in Latin and a third unit, graduate or undergraduate, in an allied field. Before admission to the Final Examination candidates must pass an examination in Latin sight translation. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examinations for the Ph.D. Before admission to the Preliminary Examination all candidates must pass a rigorous examination in Latin sight translation. Candidates who offer Greek as an allied field must pass a rigorous examination in Greek sight translation. Candidates who do not offer Greek as an allied field must pass an examination to test their ability to read Greek at sight before they are admitted to the Final Examination. The Preliminary Examination consists of four written papers and an oral examination. Candidates whose major interest is Classical Latin are expected to offer in their Preliminary Examination Latin Literature of the classical period (Livius Andronicus to Tacitus) and, in most cases, one subsidiary field within the major—for instance a period of Roman History, Roman Religion, the History of Classical Scholarship, Epigraphy or Palaeography. In addition candidates are expected to offer an allied field (usually Greek). Candidates whose major interest is Medieval Latin are expected to show in their Preliminary Examination a broad knowledge of classical Latin Literature, but the emphasis in the examinations will be determined by the special interests of the student.
Seminars and Graduate Courses

The seminars offered are selected from the following:

Mrs. Michels:
- Augustan Poetry.
- Lucretius and Catullus.
- The Works of Vergil.
- Roman Rhetoric: Theory and Practice.
- Latin Literature of the Silver Age.
- Roman Religious Institutions.

Miss Uhlfelder:
- History of Classical Scholarship.
- Latin Palaeography and Textual Criticism.
- Literature of the Late Empire.
- Latin Literature of the Early Medieval Period.
- Latin Literature of the Twelfth Century.

Mr. Scott:
- Tacitus.
- Cicero's Correspondence.
- History and Literature of the Second Century B.C.
- Latin Inscriptions.

Selected Undergraduate Courses

[301a. Vergil's Aeneid: Mrs. Michels.]
[301b. Tacitus and Livy: Mr. Scott.]
302a. Lucretius: Mr. Esterhill.
302b. Cicero and Caesar: Mrs. Michels.

Mathematics

Professors: John C. Oxtoby, M.A., Chairman
Marguerite Lehr, Ph.D.

Associate Professor: Frederic Cunningham, Jr., Ph.D.¹

Assistant Professor: Ethan D. Bolker, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 30-36)

Prerequisites. A good undergraduate preparation in Mathematics, or in Mathematics and Physics.

¹. On sabbatical leave for the year, 1965-6.
Major and Allied Subjects. Students may specialize in any of the broad divisions of Mathematics: Algebra, Analysis, Geometry, or Mathematical Physics, but are expected also to acquire a well-rounded knowledge of Mathematics. Certain courses in Physics, Chemistry or Philosophy (logic) are accepted as allied work.

Language Requirements. Candidates for the M.A. and Ph.D. must pass examinations in two of the three: French, German, Russian.

Program and Examination for the M.A. The program consists of three units of work in Mathematics, or in Mathematics and an allied field. Advanced undergraduate courses which supplement the student's preparation may under certain conditions be taken for graduate credit. The Final Examination is usually oral and one hour in length.

Program and Examinations for the Ph.D. Candidates will take such courses and seminars as are needed to provide a sufficiently broad foundation. As they progress they will devote an increasing proportion of their time to individual study and research under the direction of a member of the Department. The Preliminary Examination is taken after the student is well advanced and usually consists of three or four written examinations intended to test the candidate's breadth of knowledge and understanding of the structure of Mathematics as a whole. It may or may not include an oral examination. The Final Examination is oral and is devoted to the candidate's special field and the subject of the dissertation.

Seminars and Graduate Courses

At least three graduate courses or seminars are offered each year. Additional courses of directed reading and research can be arranged. The seminars offered in any year are selected to meet the needs of the individual students. Some may be offered for one semester only. They are usually selected from the following:

Mr. Bolker:

Hilbert Space.
Topological Groups.
Banach Algebras.
Mr. Cunningham:
   Functional Analysis.
   General Topology.
   Linear Spaces.
   Theory of Functions.

Miss Lehr:
   Abstract Algebra.
   Differential Geometry.
   Probability Theory.
   Projective Spaces and Lattice Theory.

Mr. Oxtoby:
   Ergodic Theory.
   Measure Theory.
   Point Set Topology.
   Theory of Functions.

Journal Club. A joint Mathematical Colloquium with Haverford and Swarthmore Colleges and the University of Pennsylvania meets approximately every two weeks for the presentation of current research by local or visiting mathematicians.

SELECTED UNDERGRADUATE COURSES

301. Advanced Calculus: Mr. Bolker.
303a. Introduction to Abstract Algebra: Miss Lehr.
304b. Theory of Probability: Miss Lehr.
[305b. Topics in Differential Geometry: Miss Lehr.]
310. Theory of Functions of a Complex Variable: Mr. Oxtoby.
[311b. Differential Equations: Mr. Cunningham.]
[312. Topology: Mr. Cunningham.]
Medieval Studies

Graduate work for the M.A. in the medieval field may be done either under a particular department or under the Medieval Studies Committee. Doctoral studies in the medieval period will usually come under the supervision of a particular department; in exceptional cases students with outstanding preparation will be permitted to take the Ph.D. in Medieval Studies.

Medieval work in a particular department will fall under the regulations of that department. For work under the Medieval Studies Committee the regulations are as follows:

Prerequisites. The Committee must be satisfied that all candidates for admission have done sufficient undergraduate work to undertake graduate studies in the medieval field and have a reading knowledge of Latin and two modern languages.

Major and Allied Subjects. Any literature, ancient, medieval or modern, History, Philosophy, Classical Archaeology, History of Art, History of Music.

Language Requirements. For the M.A. and the Ph.D.: Latin, and two modern languages. Other languages may be substituted by permission of the Committee according to the candidate's special program.

Program and Examinations for the M.A. Candidates will normally work in two departments and will offer at least two units of graduate work in any of the medieval fields and a third unit in any of the fields listed as allied. An extended paper, usually growing out of the work of one of the seminars, will be required in addition to an examination. The Final Examination may be either written (four hours) or written and oral (three hours—one hour).

Program and Examinations for the Ph.D. The course of study will normally be under the guidance of one professor. Prime emphasis will be placed on a program of research leading to a dissertation. A satisfactory Preliminary Examination in two medieval fields and one allied field, written and oral, will be required.

Seminars and Graduate Courses: See under the various Departments.

Music

Professor and Director of the Chorus: Robert L. Goodale, B.Mus., A.A.G.O., Chairman

Professor and Director of Ensemble Groups: Agi Jambor, M.A.

Lecturer: Isabelle Cazeaux, Ph.D.

Visiting Lecturer: Arthur J. Komar, M.Mus., M.F.A.

Director of Orchestra: William H. Reese, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 30-36)

Prerequisites. Two years of Harmony, Counterpoint and Analysis, three years of History and Appreciation of Music, of which
at least one should be in an advanced course, and a reading knowledge of one modern language, preferably German. Candidates must have a sufficient knowledge of pianoforte or organ playing to be able to play music of the technical difficulty of a Bach figured chorale.


Language Requirements. Two modern languages are required for the M.A. degree, preference being given to German and French. For candidates for the Ph.D. degree two languages are required, one of which must be German.

Program and Examination for the M.A. The program consists of three units of work in Music or in Music and an allied field. The Final Examination is written and four hours in length.

Examinations for the Ph.D. The Preliminary Examination consists of four papers in the major field, or three papers in the major field and one in an allied field, and an oral examination. The Final Examination covers the subject matter of the dissertation.

Seminars and Graduate Courses

Miss Cazeaux:

Medieval and Early Renaissance Music: a Study of Style and Paleography.
Music of the Late Renaissance and Baroque.

Mr. Goodale:

Music of the Twentieth Century.
Theory and Analysis.

Mme Jambor:

The Interpretation of Music.
Bryn Mawr College

Selected Undergraduate Courses

201. The Romantic Period: Miss Cazeaux.
203b. The Classical Period: Mme Jambor.
205b. Musical Criticism: Miss Cazeaux, Mme Jambor.

[301a. Opera and Music Drama: Miss Cazeaux.]
[301b. Music of the Twentieth Century: Mr. Goodale.]
302a. Medieval and Early Renaissance Music: Miss Cazeaux.
302b. Late Renaissance and Baroque Music: Miss Cazeaux.
303a. Orchestration: Mr. Goodale.
304a. Interpretation of Keyboard Music, Seventeenth Century to the Present: Mme Jambor.
305. Free Composition: Mr. Goodale.

Membership in the Ensemble Groups, the Orchestra and the College Chorus is open to graduate students. Participation by students in the Department is strongly urged.

Philosophy

Professors: Milton Charles Nahm, B.Litt., Ph.D., Chairman
José María Ferrater Mora, Lic.F.L.
Hugues Leblanc, Ph.D.¹
Isabel Scribner Stearns, Ph.D.

Associate Professors: George L. Kline, Ph.D.
Jean A. Potter, Ph.D.²

Lecturer: Kathryn Pyne, Ph.D.

Instructor: Margaret Healy, M.A.

Special Requirements for Graduate Work
(for the general requirements, see pp. 30-36)

Prerequisites. In general, an undergraduate major in Philosophy. Students whose undergraduate training does not include a major in Philosophy may be required to take such undergraduate courses as the Department considers necessary.

Major and Allied Subjects. Students may major in either historical or systematic branches of Philosophy. Allied subjects:

¹. On sabbatical leave for the year, 1965-6.
Another field of Philosophy and subjects in most fields of the humanities, mathematics, and natural and social sciences.

Language Requirements. French and German. In special cases, with the recommendation of the Department, a substitution may be made of one other modern language.

Program and Examination for the M.A. Three units of work in Philosophy or in Philosophy and an allied field. The Final Examination is usually written and four hours in length.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers in the major and allied fields and an oral examination.

Seminars and Graduate Courses

A minimum of three seminars, historical and systematic, is offered each year. The sequence of the seminars listed below will be adjusted according to the needs of the students.

Mr. Nahm:

Aesthetics.

A systematic and historical analysis of problems in the philosophy of art.

Ethics.

A study of Plato's and Aristotle's ethical theories.

Kant.

A study of the Critique of Judgment and the Critique of Practical Reason.

Miss Stearns:

Metaphysics.

A study of such metaphysical problems as causation, the nature of the individual, the person, reality and value.

Epistemology.

A systematic and historical study of such problems as the nature of universals, the nature of language, and the function of different agencies in knowledge.

Mr. Leblanc:

Deductive Logic.

A study of deductive logic and of some outstanding results in the syntax and semantics of deductive logic.

Inductive Logic.

A study of statistical and inductive probabilities, of current methods for testing hypotheses and making estimates, and, more generally, of induction. Prerequisite: Deductive Logic.
Mrs. Pyne:

Logic: Its philosophical implications and applications.  
A study, based upon the writings of Frege, Russell, Wittgenstein, Quine, Tarski, Carnap and others, of the presuppositions of logic and the philosophical uses to which logic can be put.

Mr. Ferrater Mora:

Foundations of Ontology.  
A systematic study of such problems as being, modes of being, existence, naming, meaning and existential presupposition.

Phenomenology.  
The origin and development of phenomenology in Husserl and related authors.

History of Philosophic Concepts.  
The origin and development of philosophic concepts, with particular attention to meanings and changes of meaning throughout history.

Miss Potter:

Medieval Philosophy.  
Studies in selected problems and tests in medieval philosophical thought.

Continental Rationalism.  
A detailed study of Descartes and Spinoza.

Philosophy of Religion.  
A systematic study of the metaphysical and epistemological problems of theism.

Mr. Kline:

Russian Philosophy.  
An examination of selected thinkers and schools, from the eighteenth to the mid-twentieth century. A reading knowledge of Russian would be helpful but is not required.

Ethics.  
A close examination of classical texts in ethical theory, with some attention to twentieth-century authors.
Journal Club. Students have the privilege of becoming auxiliary members of the Fullerton Club, which meets each month at the Deanery, and at which papers are read by members of the faculties of Bryn Mawr, Swarthmore, Haverford and other nearby colleges, and the University of Pennsylvania.

Selected Undergraduate Courses

202a. Kant: Mr. Kline.
202b. Recent Metaphysics: Miss Stearns.
203a. Logic: Mrs. Pyne.
302a. The Philosophy of Criticism: Mr. Nahm.
303a. Plato: Miss Stearns.
304b. Thomas Aquinas: Miss Healy.
305a. The Philosophy of the Enlightenment: Mr. Ferrater Mora.
305b. Russian Philosophy: Mr. Kline.
307b. Philosophy of Language and Symbolism: Mrs. Pyne.

Physics

Professors: Walter C. Michels, Ph.D., Chairman
Rosalie C. Hoyt, Ph.D.
John R. Pruett, Ph.D.

Assistant Professor: W. Paul Ganley, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 30-36)

Prerequisites. An undergraduate major in Physics or in a field of study closely allied to Physics (e.g. Mathematics, Chemistry, Engineering). Students who have not majored in Physics will usually find it necessary to take some undergraduate courses before entering graduate seminars. All applicants for admission to graduate work in Physics are requested to submit scores in the Graduate Record Examination.

Allied Subjects. Candidates for the degree of Doctor of Philosophy are in general expected to offer Mathematics as an allied subject. They may substitute Chemistry, Biology, or Geology if their mathematical training is accepted as adequate for their work in Physics.
Language Requirement. The two languages required for the M.A. and Ph.D. degrees will ordinarily be chosen by the student to include one each from two of the following categories: (a) German; (b) Russian; (c) French, Italian or Spanish.

Program and Examination for the M.A. An oral qualifying examination must be passed before the student is admitted to candidacy. The subject matter of the examination will include only material ordinarily covered in undergraduate college Physics courses, but the student will be expected to handle this material on a reasonably mature level.

Each candidate is expected to have completed Physics 304 or its equivalent. The three units of work offered for the degree will ordinarily include one unit of Experimental Physics and at least one graduate seminar in Theoretical Physics. The paper will usually consist of a report on work done in connection with the unit of Experimental Physics.

The M.A. examination is a one-hour oral examination.

Program and Examination for the Ph.D. Each candidate must have completed Physics 304 or its equivalent and have passed the oral qualifying examination described above before being recommended for candidacy.

The Preliminary Examination is intended to test the candidate's general background and to determine whether this background is broad and deep enough to serve as a preparation for original research work in a specialized field. In general, two years of full or part-time graduate work should prepare the student for this examination and candidates for the Ph.D. are urged to submit themselves for examination at this stage of their work. The examination will consist of three four-hour written examinations, one problem set, and an oral examination lasting approximately one hour. Each of the three four-hour examinations will cover one of the following fields of Physics, to be chosen by the Department: (1) Classical Mechanics, including relativity theory, vibrations, and wave motion; (2) Electricity and Magnetism, including field problems and electromagnetic waves, the latter with particular reference to optical phenomena; (3) Quantum Mechanics, with applications to atomic and nuclear structure; (4) Thermodynamics and Statistical Mechanics, including both classical and quantum statistics. The student de-
votes approximately twelve hours to direct work on the problem set over a three-day period. Any books, periodicals, notes, etc. may be used in connection with the problem set. The oral examination is devoted to general Physics.

Each full-time graduate student is expected to carry on some experimental work each year. Unless the candidate has demonstrated adequate acquaintance with experimental physics in other ways, the research leading to the dissertation must be, at least in part, experimental.

**Seminars**

Two or more graduate seminars in Theoretical Physics are offered each year. In addition, a seminar in Experimental Physics is arranged individually for students desiring it, and generally serves as an introduction to a research problem.

*Experimental Physics*

Mr. Michels, Miss Hoyt, Mr. Pruett, Mr. Ganley.

*Theoretical Physics*

Mr. Ganley:

1965-6: *Electromagnetic Theory*. Maxwell's Equations, applications to waves subject to various boundary conditions, transmission lines, wave guides, radiating systems. Prerequisite: An advanced undergraduate course in Electricity and Magnetism or in Theoretical Physics.

Mr. Pruett:

1965-6: *Quantum Mechanics*. Necessity for the quantum hypothesis. The Schrödinger and Heisenberg formulations with applications to atomic structure. The Dirac approach with applications to relativistic electron theory and the quantum theory of radiation. Prerequisite: An advanced undergraduate course in Mechanics or in Theoretical Physics.
Mr. Michels:
1965-6: *Physics of the Solid State.* Classification and characteristics of solids, theory of mechanical, electrical, thermal, and magnetic properties. Prerequisites: Quantum Mechanics and Electromagnetic Theory. Either may be taken concurrently.

Miss Hoyt:
1966-7: *Chemical Physics.* Chemical and phase equilibria, interatomic and intermolecular forces, chemical bonding, molecular structure. Prerequisite: Quantum Mechanics.

Mr. Pruett:
1967-8: *Nuclear Physics.* An introductory study of classical nuclear physics followed by applications of quantum mechanics to nuclear problems and associated high energy phenomena. Some quantum electrodynamics and meson theory will be included. Prerequisite: Quantum Mechanics or its equivalent.

*Colloquium.* All members of the Department and all graduate students meet weekly for the discussion of current problems.

**Selected Undergraduate Courses**

201a. *Electricity and Magnetism:* Mr. Pruett.
202b. *Optics:* Mr. Ganley.
301a. *Classical Mechanics:* Mr. Michels.
304. *Introduction to Theoretical Physics:* Mr. Pruett.
305c. *Physical Measurements:* Mr. Ganley.
[351. *Application of Physics to Biology and Chemistry:* Miss Hoyt.]
Political Science

The Caroline McCormick Slade Department of Political Science

Professors: Peter Bachrach, Ph.D., Chairman
Gertrude C. K. Leighton, A.B., LL.B.¹

Associate Professor: Melville T. Kennedy, Jr., Ph.D.
Assistant Professor: Charles E. Frye, Ph.D.
Visiting Lecturer: Richard A. Falk, J.S.D.
Lecturer: Alice F. Emerson, Ph.D.

Dean of the College: Dorothy Nepper Marshall, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 30-36)

Prerequisites. Good undergraduate training in Political Science and related subjects.

Major and Allied Fields. The major fields in Political Science are Political Philosophy and Theory, Western Comparative Politics, Non-Western Comparative Politics, American Political Process, American Constitutional Law and International Politics and Law. Allied fields may be chosen in the other Social Sciences, in History and Philosophy, and, with the special permission of the Department, in certain subjects in Literature. Candidates for the Ph.D. are expected to prepare themselves in four fields, one of which may be allied.

Language Requirements. Two modern languages.

Program and Examination for the M.A. The program consists of three units of work in Political Science, but a unit from an allied field may be substituted for one of these. The Final Examination is written.

Program and Examination for the Ph.D. Candidates are expected to offer four fields, one of them being the field in which the dissertation is done. The other three fields are tested by preliminary written and oral examinations. The fourth field and the dissertation are covered in the Final Oral Examination.

¹ On sabbatical leave for the year, 1965-6.
Mr. Bachrach:
  *American Constitutional Law.*
  *Topics in American Political Theory.*

Miss Leighton:
  *[World Community and Law.]*

Mr. Kennedy:
  *Problems in Asian International Relations.*
  *Topics in Chinese Political and Social Development, from 1911 to 1949.*

Mr. Frye:
  *European Comparative Politics.*

Mrs. Emerson:
  *American National Politics.*

*Journal Club.* Students are expected to attend the Journal Club. This meets from time to time during the year to discuss research in progress, recent books and other topics of scholarly interest.

**Selected Undergraduate Courses**

[301a. *Law and Society:* Miss Leighton.]
[302b. *Law, Policy and Personality:* Miss Leighton.]
303a. *Problems in International Politics:* Mr. Kennedy.
304b. *West European Integration:* Mr. Frye.
309b. *Selected Topics in Modern Political Thought:* Mr. Frye.
311a. *International Law:* Miss Leighton.
312b. *China and Japan: 1840 to the Present:* Mr. Kennedy.
314a. *Methodology in Political Science:* Mr. Frye.
316b. *Law, Organization and Arms Control:* Mr. Falk.
Psychology

Professors: Morton Edward Bitterman, Ph.D., Chairman
Rachel Dunaway Cox, Ph.D.

Associate Professors: Robert Simon Davidon, Ph.D.
Richard Charles Gonzalez, Ph.D.

Assistant Professors: Anne Constantinople, A.B.
Earl Thomas, Ph.D.

Lecturers: Erika Rossman Behrend, M.A.
Cynthia Klinman, Ph.D.
Larry Stein, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 30-36)

Prerequisites. Undergraduate training in Psychology is recommended, but outstanding applicants with training only in related fields may be accepted. Students who have not majored in Psychology as undergraduates may find it necessary to devote a substantial portion of the first year to undergraduate courses. All applicants residing in the United States at the time of the application must submit a score on the Miller Analogies Test.

Major and Allied Subjects. The orientation in the various fields is experimental, and there are no facilities for clinical training. Work in Psychology may be coordinated with work in one of the following allied areas: Anthropology, Biology, Mathematics, Philosophy, Political Science, Physics and Sociology. Students interested primarily in Child Psychology normally major in Education and Child Development.

Language Requirements. Candidates for the M.A. must pass an examination in one of the following languages: French, German, Russian. (Only one language is necessary because of the requirement in Statistics.) Candidates for the Ph.D. must pass examinations in two of the three languages.

Bryn Mawr College

Program and Examinations for the M.A. The program of work must include three units (six one-semester seminars or courses), which usually will be chosen from the group of seminars and courses listed below. Sometime before final approval of the Master's paper, each candidate must pass a written examination in Statistics. The Final Oral Examination, one hour in length, deals with the Master's paper and related topics.

Program and Examinations for the Ph.D. Candidates are expected to devote a large portion of their time to supervised research. Each must pass a written examination in statistics. The Preliminary Examination consists of written papers in four of the areas listed below under the heading of Graduate Seminars, or, with the approval of the Department, in three of those areas and in one of the allied subjects listed above. The Final Oral Examination deals with the dissertation and the field in which it was written.

GRADUATE SEMINARS

Seminars are offered in each of the following six areas:

- **Comparative Psychology**
- **Human Learning and Thinking**
- **Perception**
- **Personality**
- **Physiological Psychology**
- **Social Psychology**

Statistics (Graduate Course)

SELECTED UNDERGRADUATE COURSES

201a. **Comparative Psychology**: Mr. Bitterman.
202b. **Psychological Measurement**: Mr. Davidon.
[203b. **Human Learning and Thinking**: Mr. Gonzalez.]
204a. **Experimental Methods and Statistics**: Mrs. Behrend.
205a. **Perception**: Mr. Davidon.
301b. **Physiological Psychology**: Mr. Thomas.
302a. **Psychology of the Normal Personality**: Mrs. Klinman.
303b. **Social Psychology**: Miss Constantinople.
304b. **Psychology of the Abnormal Personality**: Mrs. Cox.
Russian

Professor: Frances de Graaff, Ph.D., Chairman
Assistant Professors: Irene Nagurski, Ph.D.
Ruth C. Pearce, Ph.D.

Associate Professor of Philosophy: George L. Kline, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 30-36)

Prerequisites. An undergraduate major or minor in Russian with knowledge of Russian Literature and ability to read and speak Russian.

Allied Subjects. Any language or literature, European History, Political Science.

Language Requirements. French and German. In special cases the Department may accept other languages.

Program and Examination for the M.A. Three units of work in Russian or in Russian and an allied field. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examination for the Ph.D. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination.

Seminars

Seminars offered are selected from the following:

Miss de Graaff:
Serbo-Croatian Language and Literature.
Pushkin and Lermontov.
The Russian Drama.

Miss Nagurski:
Polish Language and Literature.
Tolstoy and Dostoevsky.

Mrs. Pearce:
History of the Russian Language.
Old Church Slavonic.

Mr. Kline:
Russian Philosophy.
SELECTED UNDERGRADUATE COURSES

201. Readings in Russian Literature: Miss de Graaff.

[302. Pushkin and His Time: Miss Nagurski.]

303. Russian Literature of the Twentieth Century: Miss de Graaff.

43-44. (Haverford College) History of Russia: Mrs. Gerstein.

Social Work and Social Research

The Carola Woerishoffer Graduate Department of Social Work and Social Research

PROFESSORS: 

KATHERINE D. K. LOWER, Ph.D.,
   Director of the Department*

BERNARD ROSS, M.S.S.A., Ph.D.

ASSOCIATE PROFESSORS: 

LOUIS GOLDSTEIN, Ph.D.

JEAN HARING, M.A., M.S.W.

PHILIP LICHTENBERG, Ph.D.

JEANNE POLLOCK, M.S.W.

KURT REICHERT, Ph.D.

MARTIN REIN, M.S.S.W., Ph.D.

ASSISTANT PROFESSORS: 

JANE COLLIER KRONICK, Ph.D.

WILLIAM W. VOSBURGH, Ph.D.

GRETA ZYBON, M.S.W.

LECTURERS: 

PATRICIA MILLAR BURLAND, M.S.S.

RUTH O. STALLFORT, M.S.

INSTRUCTORS: 

ELIZABETH L. PINNER, M.S.W.

EDMUND SHERMAN, M.S.S.

Professor of Education

AND PSYCHOLOGY: 

RACHEL D. COX, Ph.D.

Professor of Sociology: 

EUGENE V. SCHNEIDER, PH.D.*

Special Requirements for Graduate Work

(for the general requirements, see pp. 30-36)

Bryn Mawr awards the degrees of Doctor of Philosophy and Master of Social Service in the Department. The prerequisites and program required for the degree of Master of Social Service are described on page 34. The statement here refers to the Ph.D.


in Social Work and Social Research. For the Bulletin of the Department, containing courses offered, write to the Director, 815 New Gulph Road, Bryn Mawr.

The curriculum includes the following areas of study: Social Welfare, Theory in Social Work Practice, Social and Behavioral Sciences, and Social Research.

Preparation in these four areas is implemented through required courses in each of the areas, accounting for about one-half of the program; electives that are considered pertinent to individual interests, some of which may be taken in other departments within the College; and special experiences that are directed toward specific career goals, including teaching assistantships and research assistantships. Candidates select a major field within one of the four areas of the curriculum and allied fields from the other areas. Qualified students may participate in various phases of research in social work under the direction of members of the faculty.

Prerequisites. Psychology and the social sciences, including Economics, Political Science, History, Sociology and Anthropology, provide basic preparation. At least one general course in each field is important, as well as concentration in one as a major field. A basic course in Statistics is also desirable. In general, applicants for the Ph.D. are expected to have completed work for a Master's degree, or its equivalent, in social work.

Major and Allied Fields. The major and allied fields may be selected from the field of Social Work. At the same time, some work in one of the allied fields of Sociology, Psychology, Anthropology or Economics, selected with a view to its contribution to the major field of the student's interest, is recommended. For the degree, substantial work in Statistics is also required.

Language Requirements. A reading knowledge of only one language is required for the Ph.D. in Social Work. The language required is French, but in special cases another language may be substituted.

Program and Examinations. The program of study is individually planned to cover major and allied fields. Seven units of work will normally be suggested as a minimum. The Preliminary Examination in major and allied fields consists of four written papers and an oral examination testing the candidate's general knowledge of the fields.
Sociology and Anthropology

Professor of Anthropology: Frederica de Laguna, Ph.D., Chairman
Professor of Sociology: Eugene V. Schneider, Ph.D.¹
Assistant Professor of Anthropology: Jane C. Goodale, Ph.D.
Visiting Lecturer in Sociology: Seymour Leventman, Ph.D.
Lecturer in Anthropology: Herbert Alexander, Jr., M.A.
Lecturer in Sociology: Martin Oppenheimer, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 30-36)

ANTHROPOLOGY

Prerequisites. A good undergraduate preparation in Anthropology or a closely related discipline is desirable. Students whose undergraduate training is not entirely adequate will be required to take such undergraduate courses as may seem necessary.

Major and Allied Subjects. Students who specialize in Anthropology may do some work in Sociology and other allied subjects including Biology, Classical and Near Eastern Archaeology, Economics, English Literature, Geology, History, History of Art, Linguistics, Philosophy, Political Science, Psychology or Sociology. See also the special requirements for the Ph.D. in Anthropology.

Language Requirements. Candidates for the M.A. or Ph.D. in Anthropology must offer two modern languages.

Program and Examination for the M.A. The program consists of three units of work in seminars or advanced undergraduate courses arranged for seminar credit. One of these may be in an allied subject. The Final Examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

¹. On sabbatical leave for the year, 1965-6.
Program and Examinations for the Ph.D. All students are expected to take the equivalent of at least one year's graduate work at another institution approved by the Department (see page 29). All Ph.D. candidates will be expected to become familiar with the principles of at least four of the following: (1) Prehistory, or Archaeology of same major area, (2) Physical Anthropology and Human Paleontology, (3) Ethnology, (4) Linguistics, (5) History of Anthropology and Anthropological Theory. These requirements may be satisfied by courses approved by the Department, or competence tested by examination.

The Preliminary Examinations for candidates for the Ph.D. will consist of four three-hour written papers and an oral examination of one hour. One of these examinations may be in an allied field.

Seminars and Graduate Courses in Anthropology

Depending upon the needs of the students, seminars selected from among the following may be offered either as full year courses (1 unit of credit), or as semester courses (½ unit of credit).

Methods in Ethnography  Primitive Religion
Readings in Ethnography  Culture Change
The American Indian  American Archaeology
Oceania and Australia  Human Evolution and Prehistory
Social Organization  History of Anthropology

In addition, courses at the University of Pennsylvania are available under the terms of the Reciprocal Plan (see page 29).

Selected Undergraduate Courses

203b. *Primitive Culture*: Miss Goodale.
204. *American Archaeology*: Mr. Alexander.
301b. *Cultural Theory*: Miss de Laguna.
304a. *Culture and Personality*: Miss de Laguna.

Sociology

Prerequisites. A good undergraduate preparation in Sociology, or some closely related social science is desirable. Students whose undergraduate training is not entirely adequate may be required
to take certain undergraduate courses. Advanced undergraduate courses can usually be taken for graduate credit.

Major and Allied Subjects. Students will be expected to take some work in allied fields—Anthropology, Economics, Psychology, Political Science, Philosophy, History and Statistics. In addition courses at the University of Pennsylvania in Sociology or allied fields may be taken for credit.

Language and Statistics Requirements. Candidates for the M.A. must offer one modern language and statistics. Candidates for the Ph.D. must offer two languages; these will be German and French, except in special cases.

Program and Examination for the M.A. The program consists of three units of work. The Final Examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

Program and Examinations for the Ph.D. All students are expected to have had, or to take, at least one year's graduate work at another institution approved by the Department, except in special cases (see page 29).

The Preliminary Examination for candidates for the Ph.D. will consist of four three-hour written papers and an oral examination of one hour. These examinations will be in (1) Sociological Theory, (2) Comparative Social Institutions, (3) an allied field, for instance in Anthropology, Social Psychology, Economics, Political Science, History, (4) a specialized subject within the field of Sociology. In addition, the student will be expected to be familiar with Statistics and the methods of Social Research.

Seminars and Graduate Courses in Sociology

One seminar a year will be given in special branches of Sociology such as:

Social Institutions. Industrial Sociology.
Theories of Social Change.

Selected Undergraduate Courses

207a. Race Relations: Mr. Leventman.
302a. Social Theory: Mr. Oppenheimer.
Special Requirements for Graduate Work
(for the general requirements, see pp. 30-36)

Prerequisites. An undergraduate major in Spanish; representative reading from Spanish Literature of the Middle Ages, Golden Age and Contemporary Period. Spanish-American Literature may be offered in addition.

Allied Subjects. Any literature, ancient or modern, including Medieval Latin Literature; European or Spanish-American History; Classical or Romance Philology.

Language Requirements. For the M.A. two Romance languages other than Spanish, or one Romance language and German. For the Ph.D. German and French; in special cases the Department may accept other languages. The Ph.D. candidate’s preparation must give evidence of adequate knowledge of Latin; if it does not, Latin will have to be included in the graduate program.

Program and Examination for the M.A. The program consists of two units of graduate work in Spanish and a third unit, graduate or undergraduate, in an allied field. Before admission to the Final Examination candidates must prove their ability to speak Spanish. The Final Examination consists of a three-hour written part and an oral of one hour.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination. Suitable related fields should be discussed with the member of the Department with whom the candidate plans to work on the dissertation.

Seminars and Graduate Courses

The seminars are arranged to allow the widest possible choice for students over a two- or three-year period of study. Normally the same seminar will not be given two years in succession. Two from among the following will be given every year.

Members of the Department.

*Ideological Currents in Renaissance Spain.*
Platonism, Mysticism, Erasmism, and the Counter-Reformation.

*The History of the Spanish Language.*

*The Medieval Castilian Epic and Lyric.*

*[Prose Fiction of the Golden Age.]*
From *La Celestina* to *El Criticón.*

*[The Poetry of the Golden Age.]*
The evolution of Spanish poetry from Garcilaso to Góngora.

*[Problems in the Golden Age Theater.]*

*Studies in Modern Spanish Literature.*

Selected Undergraduate Courses


[304a. *Drama of the Golden Age:* Mrs. King.]

[304b. *The Age of Cervantes:* Mrs. King.]
How to Get to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By air: From the Philadelphia International Airport take the airport limousine to Philadelphia and the Paoli Local to Bryn Mawr or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.

By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43—Interstate #76), turning right at the exit marked “Ardmore-Chester” on to #Pa. 23, which is 3.5 miles east of the toll gate; continue into Alternate #23 (Montgomery Avenue) to the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues, continue for one block, then turn left again to Yarrow Street which leads directly to the campus.

By bus: All Greyhound buses arrive at the Philadelphia terminal at 17th and Market Streets, adjoining Suburban Station. Trailways buses arrive at 13th and Arch Streets, three blocks from Suburban Station. Take the Paoli Local from Suburban Station to Bryn Mawr.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.
Bryn Mawr College Calendar

UNDERGRADUATE COURSES

ISSUE FOR THE SESSION OF 1965/1966

AUGUST 1965

Volume LVIII Number 3
VISITORS to the College are welcome, and when the College is in session student guides are available to show visitors the campus. Appointments for interviews and for campus tours should be made in advance by letter or by telephone. The College offices are open Monday through Friday from nine until five and on Saturdays from nine until one. From mid-June until after mid-September the offices are closed on Saturdays.

CORRESPONDENCE

The Post Office address is Bryn Mawr College, Bryn Mawr, Pennsylvania 19010.

Correspondence regarding the following subjects should be addressed to:

The President
General interests of the College

The Dean
Academic work, personal welfare and health of the students

The Director of Admissions
Admission to the Undergraduate School and entrance scholarships

The Dean of the Graduate School
Admission to the Graduate School and graduate scholarships

The Director of Halls
Rooms in the halls of residence

The Comptroller
Payment of bills

The Director of the Bureau of Recommendations
Recommendations for positions and inquiries regarding students' self-help

The Alumnae Secretary
Regional scholarships and loan fund
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Academic Schedule
1965/1966

1965

First Semester

September 22. Graduate Center opens to resident students
Registration of graduate students
Deferred, condition, auditors' examinations begin

September 23. Halls of residence open to entering class at 8 A.M.
Registration of entering undergraduate students

September 25. Deferred, condition, auditors' examinations end
Halls of residence open to returning undergraduates at 8 P.M.

September 26. Enrollment of returning undergraduate students

September 27. Work of the 81st academic year begins at 9 A.M.

September 29. Registration period for graduate students ends

October 9. German examinations for undergraduates

October 16. Italian and Spanish examinations for undergraduates

October 23. French examinations for undergraduates
Italian, Spanish, Russian and Statistics examinations for graduate students

October 30. Greek, Latin and Russian examinations for undergraduates
French examinations for graduate students

November 6. German examinations for graduate students

November 17. Hygiene examination at 7:30 P.M.

November 24. Thanksgiving holiday begins after last class

November 29. Thanksgiving holiday ends at 9 A.M.

December 17. Christmas vacation begins at 12:45 P.M.

1966

January 3. Christmas vacation ends at 9 A.M.

January 8. French examinations for Seniors conditioned
Italian and Spanish examinations for Seniors conditioned
Italian, Russian, Spanish and Statistics examinations for graduate students
Academic Schedule

January 14. Last day of lectures
January 15. Greek, Latin and Russian examinations for Seniors conditioned
German examinations for graduate students
January 17. College examinations begin
January 22. German examinations for Seniors conditioned
French examinations for graduate students
January 26. Registration period for graduate students begins
January 28. College examinations end

Second Semester

January 31. Work of the second semester begins at 9 A.M.
February 2. Registration period for graduate students ends
March 25. Spring vacation begins after last class
April 4. Spring vacation ends at 9 A.M.
Deferred examinations begin
April 9. Deferred examinations end
German examinations for undergraduates
Italian, Russian and Spanish examinations for Ph.D. candidates and M.A. candidates for 1967
Statistics examinations for graduate students
April 16. Italian and Spanish examinations for undergraduates
French examinations for Ph.D. candidates and M.A. candidates for 1967
April 22-24. Geology Field Trip
April 23. German examinations for Ph.D. candidates and M.A. candidates for 1967
April 30. French examinations for undergraduates
May 7. Greek, Latin and Russian examinations for undergraduates
May 13. Last day of lectures
May 16. College examinations begin
May 27. College examinations end
May 30. Conferring of degrees and close of the 81st academic year
June 4. Alumnae Day
The Trustees of Bryn Mawr College

J. Edgar Rhoads, President

Milliecent Carey McIntosh

Vice-Presidents

John E. Forsythe
Treasurer

J. Tyson Stokes
Assistant Treasurer

Katharine Budd Whelihan

Secretary

Assistant Secretary

Trustees

Agnes Brown Leach
Milliecent Carey McIntosh
J. Edgar Rhoads
C. Canby Balderston
Elizabeth Gray Vining
Henry Joel Cadbury
John E. Forsythe

The Board of Directors

Henry Joel Cadbury, Chairman

Eleanor Little Aldrich

Vice-Chairmen

John E. Forsythe
Treasurer

J. Tyson Stokes
Assistant Treasurer

Katharine Budd Whelihan

Secretary

Assistant Secretary

Directors

Agnes Brown Leach
Milliecent Carey McIntosh
J. Edgar Rhoads
C. Canby Balderston
Elizabeth Gray Vining
Henry Joel Cadbury
John E. Forsythe
John S. Price
Allen McKay Terrell
Amos Jenkins Peaslee
Jonathan E. Rhoads
James Wood
Lelia Woodruff Stokes

Katharine Strauss Mali

Alumnae Director, 1960-5

Mary Hale Chase

Alumnae Director, 1961-6

Elizabeth Curran Warren

Alumnae Director, 1962-7

Mary Durfee Brown

Alumnae Director, 1963-8

Anne Woodward Pusey

Alumnae Director, 1964-9

Elizabeth Pearson Horrocks

Alumnae Director, 1965-70

Doreen Canada Day Spitzer by invitation
President of the Alumnae Association
Standing Committees of the Board of Directors for 1965

**Executive Committee**
Mr. Rhoads, Chairman
Mr. Cadbury, ex officio
Mrs. Aldrich
Mrs. Chase
Mr. Forsythe
Mrs. Gordan
Mrs. Leach
Miss McBride
Mrs. McIntosh
Mr. Stokes

**Finance Committee**
Mr. Forsythe, Chairman
Mr. Rhoads, ex officio
Mrs. Jones
Mr. Price
Mr. Stokes
Mr. Terrell
Mr. Wood

**Buildings and Grounds Committee**
Mr. Price, Chairman
Mrs. Gordan, Vice-Chairman
Mrs. Chase
Mrs. Ingersoll
Miss McBride
Mr. Peaslee
Mr. Rhoads
Mrs. Warren

**Library Committee**
Mrs. Gordan, Chairman
Mrs. Aldrich
Mrs. Brown
Mrs. Mali
Miss McBride
Mrs. Stokes
Mrs. Vining

**Religious Life Committee**
Miss McBride, Chairman
Mr. Cadbury
Mrs. Ingersoll
Mrs. McIntosh
Mrs. Pusey
Dr. Rhoads
Mr. Stokes
Mrs. Vining

1. Mrs. Rustin McIntosh
2. Mrs. Morgan Vining
4. Mrs. Henry Goddard Leach
5. Mrs. Francis J. Stokes
6. Mrs. Talbot Aldrich
7. Mrs. John D. Gordan
8. Mrs. Russell K. Jones
9. Mrs. C. Jared Ingersoll
10. Mrs. Henry J. Mali
11. Mrs. G. Howland Chase
12. Mrs. Geoffrey S. Warren
13. Mrs. Charles Bennett Brown
14. Mrs. Nathan M. Pusey
15. Mrs. Thomas S. Horrocks
16. Mrs. Lyman Spitzer, Jr.
Faculty and Staff

FOR THE ACADEMIC YEAR, 1965/1966

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Grace Mead Andrus de Laguna, Ph.D. (Cornell University), Professor Emeritus of Philosophy

Max Diez, Ph.D. (University of Texas), Professor Emeritus of German Literature

Charles Ghequière Fenwick, Ph.D. (Johns Hopkins University), LL.D., Professor Emeritus of Political Science

Grace Frank, A.B. (University of Chicago), Professor Emeritus of Old French

Mary Summerfield Gardiner, Ph.D. (Bryn Mawr College), Professor Emeritus of Biology


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Faculty and Staff

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Lily Ross Taylor, Ph.D. (Bryn Mawr College), Litt.D., Professor Emeritus of Latin
Roger Hewes Wells, Ph.D. (Harvard University), Professor Emeritus of Political Science
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Bryn Mawr College

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Christoph E. Schweitzer, Ph.D. (Yale University), Associate Professor and Professor-elect of German

Robert Butman, M.A. (University of North Carolina), Associate Professor of English on the Theresa Helburn Fund and Director of the Theatre, on joint appointment with Haverford College

Robert L. Conner, Ph.D. (Indiana University), Associate Professor of Biology

Frederic Cunningham, Jr., Ph.D. (Harvard University), Associate Professor of Mathematics

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George L. Kline, Ph.D. (Columbia University), Associate Professor of Philosophy

Philip Lichtenberg, Ph.D. (Western Reserve University), Associate Professor of Social Research

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Richard B. Du Boff, Ph.D. (University of Pennsylvania), Assistant Professor of Economics

Mary Maples Dunn, Ph.D. (Bryn Mawr College), Assistant Professor of History

Charles E. Frye, Ph.D. (Princeton University), Assistant Professor of Political Science

\(^1\) On sabbatical leave for semester II, 1965-6.
William Paul Ganley, Ph.D. (University of Buffalo), Assistant Professor of Physics
Jane C. Goodale, Ph.D. (University of Pennsylvania), Assistant Professor of Anthropology
Anne Coffin Hanson, Ph.D. (Bryn Mawr College), Assistant Professor of History of Art
M. Pauline Jones, Ph.D. (Bryn Mawr College), Assistant Professor of French
Jane Collier Kronick, Ph.D. (Yale University), Assistant Professor of Social Work and Social Research
Barbara Miller Lane, Ph.D. (Harvard University), Assistant Professor of History
Ethel W. Maw, Ph.D. (University of Pennsylvania), Assistant Professor of Education and Child Development
Irene Nagurski, Ph.D. (Columbia University), Assistant Professor of Russian
David P. Nowlis, Ph.D. (Harvard University), Assistant Professor of Education and Child Development
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Brunilde Sismondo Ridgway, Ph.D. (Bryn Mawr College), Assistant Professor of Classical and Near Eastern Archaeology
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Alan Silvera, Ph.D. (Harvard University), Assistant Professor of History
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Sylvia G. Cline, Ph.D. (Bryn Mawr College), Research Associate in Biology
Liselotte Metzger Freed, Ph.D. (Columbia University), Research Associate in Biology
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Jane Walker, B.S. (Simmons College), Head of Cataloguing Department

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Gertrude Reed, M.A. (Rutgers University), Assistant in the Circulation Department

Cornelia A. Tucker, M.S.L.S. (Louisiana State University), Assistant in the Circulation Department

Foreign Students

Phyllis Turnbull, D. en F.L. (University of Madrid), Assistant Professor of Spanish and Adviser to Foreign Students

Halls of Residence

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Ayse Ercetin, B.A. (Middle East Technical University), Warden-elect

Linda Fagan, M.A. (Bryn Mawr College), Warden-elect

Mary Louise Hawkins, M.A. (Bryn Mawr College), Warden-elect
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SYLVIA KARTSONIS, M.A. (Bryn Mawr College), Warden of Rockefeller Hall
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GUDULA VON SAVIGNY (University of Saarbrucken), Warden-elect of the German House

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Physical Education
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GLORIA SCHMIDT, M.A. (New York University), Instructor in Physical Education
GAIL STRATHDEE, B.S. (Tufts University), Instructor in Physical Education
JANET A. YEAGER, Instructor in Physical Education

Child Study Institute
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LOUISE BRUNK, M.S.S. (Bryn Mawr College), Social Caseworker
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ELEANOR BEATTY, M.A. (George Washington University), Psychologist

ANITA GRINNELL, M.S. (University of Pennsylvania), Part-time Psychologist

FREDERIC J. KWAPIEN, M.D. (Tufts University School of Medicine), Consulting Psychiatrist

HERMAN STAPLES, M.D. (Hahnemann Medical College), Consulting Psychiatrist

ANNE D. EMMONS, M.S. (University of Pennsylvania), Remedial Reading Teacher

CONSTANCE GRANT, B.S. (University of Pennsylvania), Remedial Reading Teacher

BETH RISER, A.B. (Northwestern University), Remedial Reading Teacher

HOPE D. MITCHELL, A.B. (Sarah Lawrence College), Psychological Assistant

ISABEL WESTFRIED, A.B. (University of Pennsylvania), Psychological Assistant

Phebe Anna Thorne School

DIANNE H. WARNER, M.A. (University of Michigan), Director

JOAN FRASER, B.S. (Northwestern University), Teacher

MARJORIE M. HILLMAN, B.S. (West Chester State College), Assistant Teacher

MARY GIBBS SMITH, A.B. (Bryn Mawr College), Assistant Teacher
Introduction

BRYN MAWR COLLEGE was founded by a group of men and women belonging to the Society of Friends who were convinced that intelligent women deserve an education as rigorous and stimulating as that offered to men.

This concern about opportunity for women to study at the university level was first felt by Dr. Joseph Taylor, a New Jersey physician, who decided to give his estate to provide the land, the first buildings and the endowment for the new college. With much care Dr. Taylor chose the site, thirty-nine acres of land on a hill in Bryn Mawr, eleven miles west of Philadelphia. He supervised the erection of the first building and took part in formulating the plans that led to a new educational venture. This was the opening in 1885 of the first college for women with undergraduate instruction for the A.B. and graduate instruction for the M.A. and Ph.D. degrees in all departments.

Dr. Taylor as he planned the College thought first of the education of young Friends. He expressed the "desire that all having any connexion with this Institution shall endeavor to instil into the minds and hearts of the students, the Doctrines of the New Testament as accepted by Friends." As Dr. Taylor's trustees in the early years considered the policies of the College they found themselves bound to allow freedom of conscience to all students. By 1893 it is clear from their studies and reports that they were determined to maintain a non-denominational college while strongly supporting the Friends' position of freedom of conscience and providing for continued opportunity within the College and through the College to encourage the student to develop and strengthen her own religious faith.

The first president of Bryn Mawr College was James E. Rhoads, a retired physician and one of the Trustees responsible for the initial plans. The first dean was M. Carey Thomas, who devoted her life to securing for women the opportunity for higher education and the right to share in all the privileges and responsibilities of American citizenship. Miss Thomas succeeded to the presidency in 1893, after the resignation of Dr. Rhoads. In 1922, she was followed by Marion Edwards Park, already dis-
tungished in the academic world for her scholarship in the classics and her ability as a teacher and administrator. The fourth president is Katharine Elizabeth McBride, who was elected to the presidency in 1942.

Bryn Mawr has preserved the purpose and much of the tradition of its founders. It believes that intellectual enrichment and discipline provide a sound foundation for living. It believes in the rights of the individual and in freedom to think and act as intelligent and responsible members of a democratic society.

By the terms of its charter Bryn Mawr College offers instruction in the liberal arts and sciences on both the undergraduate and graduate level. Members of the faculty usually combine graduate and undergraduate teaching. Teaching and research are found to complement each other, and the stimulation of investigation in the various fields of graduate study is reflected in all departments of undergraduate work. The undergraduate program emphasizes both depth and breadth of knowledge and understanding. No field is so broad that it cannot take advantage of the specialist's deep understanding; no specialty is so obscure that it may not profit from a breadth of perception.

Believing that a small college provides the most favorable opportunity for the students to participate actively in their own education, Bryn Mawr College limits the number of undergraduates to approximately seven hundred students. And since diversity in background and training serves not only to stimulate discussion but also to develop an intelligent understanding of such diversity, the undergraduate enrolment includes students from various types of schools, private and public, foreign as well as American. The whole group, both graduate and undergraduate, is composed of students from all parts of the United States as well as students from many foreign countries.

Since the early years of Bryn Mawr, the campus has grown from 39 to about 88 acres, new buildings have been added as required by additional students and by more complex undertakings in teaching and research, yet the College remains a compact unit for living and working.

The resources of Bryn Mawr as a small residential college are augmented by its participation with Haverford College and Swarthmore College in a plan which coordinates the facilities of
the three institutions while preserving the individual qualities and autonomy of each.

Bryn Mawr College sponsors a broad cultural program which supplements the curriculum and enriches its community life. Various lecturerships bring scholars and other leaders in world affairs to the campus for series of public lectures and for classes and conferences with the students. Such opportunities are provided by the six-week residence of the Mary Flexner Lecturer in the humanities and of the Anna Howard Shaw Lecturer in the social sciences, and by various individual lecturers in many of the departments of the College. Several of the student organizations also arrange conferences and lectures both on current national and international problems and within particular fields of interest. The musical, dramatic and dance productions of the College are directed and arranged by the appropriate student organizations, often in cooperation with Haverford College students, and with professional assistance from members of the faculty and staff. The Mrs. Otis Skinner Theater Workshop provides facilities for experimental theater work and a studio for painting and sculpture, where guidance and criticism are provided by the artist-in-residence.

Student organizations have complete responsibility for the many aspects of student activity. Two large associations, to which every student belongs, provide a framework in which individuals and smaller groups function. The Self-Government Association legislates in matters of social and personal conduct, and its elected Executive Board has full responsibility for the executive and judicial functions of the organization. Through their Self-Government Association, the students share with the faculty the responsibility for the administration of the Academic Honor System. The Undergraduate Association coordinates the activities of the many specialized clubs and societies which are open to all students.

The Interfaith Association invites students of all faiths to take part in its work. The Association is aided by the Committee on Religious Life of the Board of Directors and by the staff of the College. Its objectives are to bring students in touch with their churches, to sponsor lectures or discussion on religious subjects, to plan services for worship and to take the responsibility for giving students an opportunity to pursue and extend their religious interests.
Other major student associations are concerned with political affairs, community service, the arts and athletics. The Alliance for Political Affairs sponsors lectures and a series of groups organized for discussion or action. The Bryn Mawr League concerns itself with problems of social welfare and various branches of social service to the community at large. The Arts Council, independently or with other associations, sponsors work and performances or exhibitions in the arts and *The College News* published weekly and *The Review* published twice yearly welcome the participation of students interested in reporting, editing, and critical or creative writing. The Athletic Association plans the extra-curricular athletic program.

Opportunities for the cultivation of clear thinking and informed reasoning, for exercise in the privileges and responsibilities of community life, and for practice in the critical and creative arts are present to each undergraduate student at Bryn Mawr. As she continues through the four undergraduate years, she should begin to know too the personal satisfactions and rewards that are the common heritage of scholars.
Admission

BRYN MAWR COLLEGE is interested in candidates of character and ability, who wish a liberal college education and are prepared for college work by a sound education in school. The College has found highly successful candidates among students of varied interests and talents from a wide range of schools and regions in the United States and abroad.

In its consideration of candidates the College looks for evidence of ability in the student's high school record, her rank in class and her College Board tests, and asks her high school principal and some of her teachers for an estimate of her character, maturity and readiness for college.

The Director of Admissions welcomes correspondence and interviews with candidates, their parents and school advisers. The Office of Admissions is open from nine to five on weekdays and from nine to one on Saturdays. Appointments for interviews and for campus tours should be made in advance by letter or by telephone. Representatives of the Alumnae Association and Information Chairmen in various sections of the country are also glad to interview candidates. Names and addresses may be secured from the Director.

The College admits only candidates for a degree.

PROGRAM OF SECONDARY SCHOOL STUDIES

Candidates are expected to complete a four-year secondary school course. The program of studies providing the best background for college work includes English, languages and mathematics carried through most of the school years and, in addition, history and a laboratory science. A school program giving excellent preparation for study at Bryn Mawr would be, for example, as follows: English grammar, composition and literature throughout four years; Mathematics, emphasizing basic algebraic, geometric and trigonometric concepts and deductive reasoning; a good foundation in one modern language and in Latin or Greek; some work in History and at least one course in a laboratory science, preferably Biology, Chemistry or Physics. Elective subjects might be offered in, for example, History of Art, History of Music or Biblical studies to make up the total of 16 or more credits recommended for admission to the College.
Since school curricula vary widely, the College is fully aware that many applicants for admission will offer programs that differ from the one described above. The College is glad to consider such applications provided students have maintained good records and continuity in the study of basic subjects.

APPLICATION FOR ADMISSION

Students are advised to apply for admission to Bryn Mawr between the end of the junior year and January 15 of the senior year of high school. The College welcomes earlier consultation about school programs.

Only in exceptional circumstances will applications to the freshman class be accepted after January 15 of the student's senior year.

Application forms may be obtained from the Director of Admissions, Bryn Mawr College, Bryn Mawr, Pennsylvania. A fee of $15 must accompany each application and is not refundable.

ENTRANCE TESTS

The Scholastic Aptitude Test and three Achievement Tests of the College Entrance Examination Board are required of all candidates with the exception of students who have been admitted to the universities of other countries. The Aptitude and Achievement Tests should be taken in December or January of the senior year in secondary school. If possible, Achievement Tests should be taken in current subjects. Students should usually offer three of the one-hour tests: one in English, one in a foreign language (if studied for two full years or more) and one in Social Studies, Science or Mathematics. A student may, if not carrying three subjects suitable for testing, submit one test taken in the junior year. No special preparation, other than work well done in a good school, is required for successful performance on these tests. A trial run of the Scholastic Aptitude Test in March or May of a student's junior year is advised. Candidates will be notified late in April of the senior year as to whether or not they will be admitted to the College.

Candidates are responsible for registering with the College Entrance Examination Board for the tests. Information about the tests, test centers, fees and dates may be obtained by writing to College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey, or P.O. Box 1025, Berkeley 1, California.
EARLY DECISION PLAN

A student who is applying for admission to Bryn Mawr College only, and to no other college, will be sent an earlier notice (by the middle of November) as to the action taken on her application, provided she follows the plan outlined below:

1. She must be recommended by her school as a strong candidate and must take her final Scholastic Aptitude and three Achievement Tests (English and any two others) in March or May of the junior year.

2. After her school has reviewed the results of these tests together with her three-year high school record, she must file before October 1, in addition to a regular application, a statement obtained from the College that she is a candidate under the Early Decision Plan.

3. She will be notified by the College by the middle of November (1) that she will be admitted to Bryn Mawr the following autumn, provided her record continues to be good, or (2) that she is advised to transfer to the regular plan for admission, repeating the Scholastic Aptitude Test and three Achievement Tests in the winter of her senior year, and filing an application with at least one other college, or (3) that she will not be admitted to Bryn Mawr.

4. A student who has been assured of admission will be asked to make a deposit of $50 by February 1, if she wishes to reserve a place in residence at Bryn Mawr College. This deposit will be deducted from her first semester bill.

ADVANCED PLACEMENT

Students who have carried advanced work in school and who have honor grades (4 and 5) on the Advanced Placement Tests of the College Entrance Examination Board may, after consultation with the Dean and the departments concerned, be admitted to one or more advanced courses in the freshman year. Bryn Mawr accepts Advanced Placement Tests with honor grades in the relevant subjects as exempting the student from college requirements for the A.B. degree. As in the case of summer school work, with the approval of the Dean and the departments concerned, one or more Advanced Placement Tests with honor grades may be presented for credit. Students who enter with three or more Advanced Placement Tests passed with honor grades may apply for sophomore standing.

1. The grade of 5 is required in English and in History.
Admission

The Advanced Placement Tests are given at College Board centers in May. Students should also see the Dean about the advisability of taking placement tests given by the College during Freshman Week.

TRANSFER AND FOREIGN STUDENTS

Students are admitted on transfer from American and foreign colleges and universities approved by the College. To be admitted on transfer, a student must have an excellent school record and, in college work, at least a high "B" average. A transfer applicant should submit to the College:

1. A letter explaining why she wishes to transfer and her plans for the major subject.
2. A current catalogue of her own college, in which she has marked the courses taken.
3. Transcripts of her high school and college courses.
4. Official test reports from the College Entrance Examination Board on the Scholastic Aptitude Test and three Achievement Tests if the candidate has taken them previously.

Transfer candidates who have not taken these tests will be required to take only the Scholastic Aptitude Test. Information concerning this test and applications to take it may be obtained from the College Entrance Examination Board. (For address see page 29.)

Foreign students may substitute for the College Board tests evidence that they have been admitted to universities in their own countries. Those whose native language is not English must also present credentials attesting to proficiency in English.

No credit will be given for work done elsewhere until the student has successfully completed a year's work at Bryn Mawr. To qualify for the A.B. degree, transfer students must complete two years of study here. Students of other colleges or universities who have failed to meet the prescribed standards of academic work, or who have been put on probation or suspended or excluded, will under no circumstances be admitted.

READMISSION

A student who has withdrawn from College is not automatically readmitted. After a year's absence, she may request readmission and should consult her Dean and the Director of Admissions concerning the procedure to be followed.
Academic Facilities and Residence

THE LIBRARY

THE M. CAREY THOMAS LIBRARY, containing over 310,000 volumes, is equipped to serve advanced graduate students and faculty as well as undergraduates. It is both a research and a study library. Periodicals in all subjects, of which over one thousand are currently received, contribute materially to the value of the collection.

The open-shelf system provides free access to the stacks. The Reference Room and Periodical Room make readily available standard works of reference and current periodicals.

The Quita Woodward Memorial Room has been planned for recreational reading. The collection provided for this purpose, now numbering about two thousand volumes, includes recent books in literature, art, religion and current affairs as well as many classics.

In the Rare Book Rooms, there are early printed books, manuscripts, first editions, fine press books, fine illustrated editions and association copies. Exhibitions of items selected from the library's own resources and of material lent by friends of the Library are held at intervals during the academic year. Here also is the Marjorie Walter Goodhart Medieval Library, a collection of incunabula given by Howard L. Goodhart which numbers over nine hundred volumes. Consisting mainly of philosophical and theological works of the fifteenth century, it occupies a significant place among college library collections.

A large Reading Room modeled after the Great Hall in Wadham College, Oxford University, has individual desks for undergraduate students. Additional work space is available in the Reserve Book Room, the Reference Room, the Art Study and the carrels in the West Wing. Twelve seminar rooms are reserved for graduate students. So crowded, however, has the Library become, not only in terms of its collections but also for faculty and students depending upon it, that an addition is urgently needed. Studies for this addition are nearing completion.

Haverford and Swarthmore Colleges and the libraries in Philadelphia are generous in making their resources available to
students. The Union Library Catalogue of Philadelphia, situated at the University of Pennsylvania, enables students to locate easily the material in approximately one hundred and seventy-five libraries in the Philadelphia metropolitan area.

Students wishing to use another library for material not available at Bryn Mawr must secure from the Bryn Mawr head librarian a letter of introduction stating the subject to be consulted. Cards of identification for the use of the Haverford College Library are obtainable at the Circulation Desk.

Each of the science departments at Bryn Mawr has its own library, with adequate reading space providing ready accessibility to bound and current numbers of scientific journals, standard reference books and modern texts.

**ART AND ARCHAEOLOGY COLLECTIONS**

A small but valuable group of original works of art, available for study, includes Greek and Roman vases, ancient coins, sculpture, Oriental pottery and scrolls, prints, and modern American and European paintings. The Ella Riegel Museum of Classical Archaeology houses the Densmore Curtis Collection presented by Clarissa Dryden, part of the Hoppin Collection, the Elizabeth Washburn King Collection of Classical Greek coins, and the Aline Abaecherli Boyce Collection of Roman Republican silver coins, as well as various other gifts from friends of the College. Professor Hetty Goldman has deposited the field records and photographic files of the excavations at Colophon (1922) and Tarsus (1934-9, 1946-7) with the Department of Archaeology. She has also given the Ella Riegel Museum an extensive study collection of pottery samples from the Tarsus excavations. For Far Eastern study the Chapin Collection of books, paintings, calligraphy, textiles and ceramics contains material from Korea as well as from China and Japan. Western art is variously represented by several small collections, including the Howard L. Gray Collection of Modern Prints and the Neuberger Collection of Contemporary American Paintings.

**LABORATORIES**

Laboratories, classrooms and libraries for Biology, Chemistry, Geology, Mathematics and Physics are located in the three buildings of the Science Center. The third building in this complex, the building for the physical sciences, was completed in the
summer of 1964. Laboratories and classrooms for Psychology remain in Dalton Hall.

In the Science Center the central building is the Marion Edwards Park Hall for Chemistry and Geology. Adjoining this building on the north is a building completed in 1958 for the biological sciences. South of Park Hall is the building for the physical sciences which provides additional space for Chemistry and Geology, all the laboratories for Physics and classrooms and a library for Physics and Mathematics.

In all three buildings in the Science Center and in Dalton Hall there are large laboratories and lecture rooms for undergraduate students and smaller seminar rooms and laboratories for graduate students. In addition to the usual equipment, the science departments have special apparatus and instruments needed in particular research projects by faculty and graduate students and acquired, in part, through the Plan for the Coordination of the Sciences and through research grants from industry and other private sources and from government agencies.

In the new building for the physical sciences there is a machine shop with expert machinists in charge and a student workshop available to graduate students. Rooms in the Biology Building were especially designed for work with radioactive materials, for microphotography and for glass blowing.

A Computing Center under the joint sponsorship of Haverford and Bryn Mawr Colleges is on the Haverford campus. It has an IBM 1620 computer and auxiliary record equipment, available for the use of students and faculty of both colleges.

The Geology Department makes available for study and research several important collections. On deposit from the United States Army Map Service are 25,000 maps. The Department's large collection of minerals has been greatly increased recently by the gift of the Mineral Collection of George Vaux, Junior.

**LANGUAGE LABORATORY**

The Modern Language Departments jointly maintain a Language Laboratory in Dalton Hall. Its library of tapes contains recordings from the various literatures as well as material especially prepared for language drills. The simple but versatile modern equipment offers opportunities to improve both the speaking and comprehension proficiency of the student of foreign languages.
Residence

HALLS OF RESIDENCE

There are on campus nine halls of residence, which provide full living accommodations for from 50 to 130 students. The newest of these, Eleanor Donnelley Erdman Hall, will open for the first time in September 1965. It was given to the College by C. Pardee Erdman and members of the family and named in honor of Eleanor Donnelley Erdman, Class of 1921, and member of the Board of Directors, 1951-6. Denbigh Hall, Merion Hall, Pembroke East, Pembroke West and Radnor Hall are named for counties in Wales, recalling the tradition of the early Welsh settlers of the area in which Bryn Mawr is situated. Rockefeller Hall is named for its donor, John D. Rockefeller, and Rhoads North and South for the first president of the College, James E. Rhoads. In addition there are three smaller halls which constitute language houses for upperclassmen who wish to speak French, German or Spanish.

A college officer, the warden, is in charge of each residence hall. She is a member of the Dean’s staff and is herself engaged in teaching or in studying for an advanced degree. She is interested in all aspects of each student’s welfare and she works, as well, with the student officers in each hall.

The College offers a variety of living accommodations including a few suites and a limited number of double rooms. However, most students occupy single rooms. The College provides basic furniture but students supply their own rugs, curtains and any other accessories they may wish.

The maintenance of each hall is under the direction of a Hall Manager who, under the supervision of the College Dietitian, is also responsible for the preparation and serving of the meals. No special foods or diets are provided in the halls of residence.

RULES FOR RESIDENCE

Residence in the college buildings is required of all undergraduates except those living with their families in Philadelphia or the vicinity. Married students are not admitted to residence.

A student enrolled in the College who plans to be married must inform the Dean of her intentions well in advance of the date of her marriage and must make arrangements for living that
meet with the Dean’s approval. Any student who marries during her college career without previously informing the Dean of her plan will not be permitted to remain in the College.

The College maintains the halls of residence in order to provide simple, comfortable living for its students. It expects students to respect its property and the standards on which the halls are run. A printed statement of residence regulations is given each student for her guidance during the academic year. The College makes every effort to keep the residence charge low; the present rates are possible only because the students have agreed to assume the major responsibility for keeping their rooms clean and in order, thus permitting a reduction in service. Failure on the part of a student to meet the requisite standard in the care of her room may cause the College to refuse her residence the following year.

All the undergraduate halls are closed during the Christmas vacation. One hall is kept open during the spring vacation and here undergraduates may occupy rooms at $3.50 per day.

NON-RESIDENT STUDENTS

For non-resident students, there is a suite of rooms in Erdman Hall containing study space, a kitchenette, dressing and shower room. College mail and campus notices will be sent there throughout the academic year. The warden of one of the halls of residence is also warden for the non-resident students. She will be available for advice and glad to help plan teas or any other special occasions which the non-resident students may be interested in arranging.

When space permits, non-resident students may make arrangements with the Director of Residence to have meals in the residence halls.

Non-resident students are liable for all undergraduate fees except those for residence in the hall. The non-resident Dispensary fee of $15 entitles them to medical examination and consultation with the College Physician. For health fees, see page 42.

Non-Resident Enrolment Fee. A non-resident student who wishes to enroll for the following year must make a deposit of $25 not later than June 1. This deposit will be credited against the tuition charge.
FEES

TUITION

The tuition fee for all undergraduate students, resident and non-resident is $1550 a year. The fee is payable on receipt of the bill sent in October. No reduction or refund of the tuition fee will be made on account of absence, illness, dismissal, or for any other reason.

The average cost of teaching each undergraduate student is about $3250 a year. The difference must be met from income on endowment and from private gifts. Contributions from parents able and willing to pay the additional sum or part of it are most welcome and help to meet expenses of instruction.

RESIDENCE

The charge for residence is $1150, $1250 or $1350, according to the size and location of the student’s room or rooms. The residence fees are payable as follows:

- $1150—payable $575 in October, $575 in February
- $1250—payable $625 in October, $625 in February
- $1350—payable $675 in October, $675 in February

Application for Residence. A student in residence, who wishes to apply for a room for the following year, must make an application for a room and accompany it with an application fee of $10. This fee will be credited against the residence charge if the room assigned is occupied by the applicant; it will not be refunded in any circumstance. Each student enrolled for the following year must make an additional deposit of $40 not later than June 1. This deposit will also be credited against the residence charge. It will be returned if the student withdraws from College before June 15; it will not be returned if she withdraws later than June 15.

New students applying for residence will be billed $50 in the spring. This $50 will be credited against the residence charge, but it will not be returned in case of withdrawal after June 15.

New students assured admission under the Early Decision Plan will be asked to make a room deposit of $50 by February 1.

An applicant who, after having reserved a room, fails to cancel her reservation by July 15 (even though she does not occupy
the room at all or vacates it during the college year) prevents some other student from obtaining accommodation and consequently admission to the College. Therefore, unless formal notice of withdrawal of application for the ensuing academic year is received by the Dean of the College by July 15, the applicant is responsible for the residence charge (based upon the room assigned to her) for the whole year, or if a definite room assignment has not been made, the applicant is responsible for the minimum residence charge of $1150, subject to an allowance for the cost of food and a further allowance if the College re-rents the room to a student not previously resident. The applicant is not entitled to dispose of the room.

Reduction of Charges for Absence from College. In case of illness or withdrawal from the College for a period of six consecutive weeks or longer there will be a reduction in the charge for residence (representing the reduced expense to the College for food), provided written notice is given to the Dean of the College at the time of withdrawal, or, in the case of illness at home, as soon as possible. Verbal notice to wardens or instructors is not sufficient to secure this reduction.

SUMMARY OF MAJOR EXPENSES

For resident students, tuition and residence: $2700, $2800, or $2900 according to the type of accommodation.
For non-resident students, tuition: $1550.

Minor Fees and Charges
Laboratory courses (or, in Geology, field work) for materials and apparatus:

- One course of 2 hours or less a week ............... $7.50
- One course of more than 2 hours a week ............. 15.00 a semester
- Two courses of more than 2 hours a week ........... 25.00
- Three courses of more than 2 hours a week .......... 30.00
Graduation fee (payable in the senior year) ........... 20.00
Health Insurance (Students' Reimbursement Plan) .... 15.00 a year
Dispensary fee for non-resident students .............. 15.00

Bills will be rendered by the Comptroller at the beginning of each semester. Students whose fees and charges are not paid before November 1 in the first semester and before March 1 in the second are not permitted to continue in residence or to attend their classes. The Education Plan is available for parents who prefer to pay fees in monthly instalments.
General Information

STUDENT ADVISING

The Deans are responsible for the general welfare of undergraduates, and students are free to call upon them for help and advice on academic or more general problems. The Dean of the College and the Assistant Deans serve as class advisers and are responsible for the administration of the scholarship program. The wardens of residence halls, members of the Dean’s staff, also are ready to advise and assist students. The College Physician, the consulting psychiatrists, study counselors and vocational advisers are also available to all students. The deans and the wardens will give students information about appointments with these specialists.

For freshmen, the College provides a special period of orientation. Freshmen are asked to come into residence three days before the College is opened to upperclassmen. The wardens of the various halls and a committee of upperclassmen welcome them and are available to answer questions and give advice. The freshmen have interviews with the President or the Dean of the College and consult with the deans on registration of courses. New students also take placement tests and a physical examination. To acquaint them with the many other aspects of college life, activities are sponsored by the undergraduate organizations.

ACADEMIC STANDARDS AND REGULATIONS

Faculty rules governing academic work and the conduct of courses are stated in a booklet, “Academic Rules for Undergraduates,” given to each freshman. All students are responsible for knowing the rules thoroughly. Rules concerning the Academic Honor System and student conduct are stated in the Self-Government Handbook.

Each student’s academic work must be of sufficiently high quality to meet the academic standards set by the College. The Senate of the College, composed of one faculty member from each department, reviews the records of those students whose work has fallen below the required standard. In such cases the Senate may set specific requirements to be met by the student concerned and may also curtail privileges. In extreme cases the Senate may recommend exclusion from college.

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Integrity of all work is demanded of every student. Information about the Academic Honor System dealing with the conduct of examinations, written quizzes, and other written work is given to all entering students, who must sign a statement that they have read, understood and accepted the rules. Any infraction of these regulations or any action contrary to their spirit constitutes an offense. Infractions are dealt with by an Administrative Board under the chairmanship of the President of the College. The members of the board are the four college-elected members of the Executive Board of the Bryn Mawr Students' Association for Self-Government, three members of the Faculty and the Dean of the College or the Assistant Dean.

ATTENDANCE AT CLASSES

Regular attendance at classes is expected. Responsibility for attendance rests solely with each student. In general no attendance records are kept, except where an instructor has requested that attendance be taken. Each instructor will make clear his view concerning absence from class.

Students should note that instructors are not notified of absences because of illness unless a student has missed three days of classes.

Absences for health or other urgent reasons are excused by the Dean, but any work missed must be made up. After a brief absence the student should consult her instructor about making up the work. In the case of a prolonged absence the Dean must be consulted as well as the instructor. If it seems probable to the Dean that a student's work may be seriously handicapped by the length of her absence, she may be required to drop one or more courses. Any student absent for more than twenty-five consecutive class days will generally be required to drop a course.

EXCLUSION

The College reserves the right to exclude at any time a student whose conduct or academic work is unsatisfactory. In such cases the fees due or already paid to the College will be neither refunded nor remitted in whole or in part.

HEALTH

An extensive program, including periodic physical examinations and regular work if needed or desired during the first two
years in the Department of Physical Education, has been established to help students develop and maintain optimum conditions of health. Students receive clinic and hospital care in the College Dispensary and Infirmary, where a College Physician is in daily attendance. The College maintains a modern 22-bed infirmary with a full staff of physicians and nurses. The Bryn Mawr Hospital and other excellent hospitals in nearby Philadelphia offer additional medical and surgical facilities.

The College physicians and psychiatrists may be consulted by the students without charge. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. The student must meet the expense if consultation is required. No student while in residence should consult an outside physician without previously informing the College Physician. Any student who leaves the campus for reasons of health must notify the Dean, the College Physician or Head Nurse before she leaves.

Certain health regulations must be met by all entering students. A medical examination blank provided by the College must be filed before July 1. As part of this health report, certification of immunization against tetanus and diphtheria, vaccination against smallpox, a Mantoux test and ophthalmologist's certificate are required. If the Mantoux test is reported positive a chest X-ray is necessary. Students who have failed to hand in these reports will have the necessary examinations and immunizations on arrival and will be charged accordingly.

The ophthalmologist's examination must be repeated before the beginning of the junior year. Failure to meet this requirement necessitates an examination by one of the College consultants, for which the student will be charged as a private patient by the ophthalmologist who makes the examination.

Every student with a health problem will be examined by the College Physician upon entering College and as often thereafter as necessary. Every undergraduate is examined by the College Physician in her senior year. A student who at any time is found not to be in good health is required to follow the special regimen prescribed by the College Physician, including any necessary limitations on academic or extracurricular activities.

The residence fee paid by resident students entitles them to treatment in the College Dispensary and to care in the College Infirmary for seven days, not necessarily consecutive, during the year, to attendance by the College physicians during this time and to general nursing. In cases requiring a special nurse, the
expense incurred must be paid by the student. This is mandatory in cases of serious illness and strict isolation. The fee for each day in the Infirmary after the seven-day period is $12. The Infirmary is open when college is in session and during spring vacation. It is closed during Christmas vacation.

Non-resident students must pay a fee of $25, which entitles them to unlimited dispensary and laboratory service and free consultation with the College physicians and psychiatrists. Married non-resident students who maintain their own homes need not pay the fee unless they desire dispensary privileges.

All communications from parents and guardians, outside physicians and others, concerning the health of the students, should be addressed to the Dean of the College or to the College Physician. Any student who becomes ill when absent from College must notify the Dean of the College immediately and present to the Infirmary when she returns a signed statement from her physician.

The College reserves the right, if the parents or guardians cannot be reached, to make decisions concerning operations or other matters of health.

The College has arranged for health insurance, known as the Students' Reimbursement Plan. Individual policies providing reimbursement for medical, surgical and hospitalization expenses within specified limits are available to resident students. The cost is $15 a year and includes protection during all vacations. Application forms may be obtained from the Comptroller.

THE EDUCATION PLAN

Since some parents prefer to pay tuition and other college fees in equal monthly instalments during the college year, the College offers this convenience under the Bryn Mawr Trust Company. The cost of a one- or two-year contract is four per cent greater than when payment is made in cash. The interest rate is slightly higher for three- or four-year contracts. All contracts include the benefit of parent life and total and permanent disability insurance.

INSURANCE

The College is not responsible for loss due to fire, theft or any other cause. Students who wish to insure against these risks should do so individually or through their own family policies.
Curriculum

The undergraduate curriculum is designed to achieve two main purposes: to give a broad and sound education in the liberal arts and sciences, and to provide adequate preparation for advanced study for those students who wish to enter graduate and professional schools. In order to assure breadth in the curriculum the College has established the following requirements which must be met by all candidates for the A.B. degree regardless of their choice of major subject: (1) Freshman English composition, (2) History of Philosophic Thought, (3) one course in the natural sciences, (4) one course in literature and (5) one course in the social sciences or history. These requirements may be met by (a) completing successfully an appropriate course at Bryn Mawr, (b) presenting the appropriate Advanced Placement Test of the College Entrance Examination Board with an honor grade,¹ or, (c) in exceptional circumstances, completing with a grade of at least C a summer school course approved in advance by the department concerned and by the Dean. Each student must also demonstrate a knowledge of two foreign languages. This may be done by (1) attaining a score of 590 on a College Board achievement test, taken in the senior year of high school,² or, by passing with an honor grade an Advanced Placement Test, (2) passing examinations offered by the College every spring and fall, or (3) passing with a grade of at least 70 a college course above the elementary level before the senior year.

The major subject, chosen at the end of the sophomore year, is combined with work in allied subjects. The purpose of the major subject is to give each student the kind of training that continuity in the study of one field of knowledge provides. As she progresses toward more complex advanced work she acquires a deeper insight into the fundamental principles and general concepts of her subject. At Bryn Mawr the Departments offering major courses of study are: Biology, Chemistry, Classical and Near Eastern Archaeology, Economics, English, French, Geology,

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¹ The grade of 5 is required in English and in History.
² Students admitted under the Early Decision Plan may offer tests taken in the junior year in high school.
German, Greek, History, History of Art, Italian, Latin, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Russian, Sociology and Anthropology, Spanish. The Departments of Education and History of Religion offer elective work which may be allied with certain major subjects but no separate majors.

Each major department offers Honors work to a number of its senior students who have demonstrated unusual ability. Honors work is of a more advanced character than that done in the regular courses and requires more initiative and power of organization than is usually expected of undergraduate students. Such work may be carried on in connection with an advanced course or may be planned especially for individual students. It usually includes independent work of a critical and analytical nature with source material, periodic reports and the preparation of an Honors paper. To be eligible a student must have completed two years of study in the major subject, and her candidacy must be approved by the Dean and the Curriculum Committee. The Honors work must be undertaken in addition to at least one full unit of advanced course work.

For students through the Class of 1968, the minimum of \(15\frac{1}{2}\) units of work for the A.B. degree is distributed as follows: \(4\frac{5}{2}\) units meet general college requirements, approximately 7 units constitute work in the major subject including allied work and the preparation for the Final Examination in the Major Subject, required of all students. The remaining units \((3\frac{1}{2})\) are for courses to be elected freely by the student. Each full year course is the equivalent of one unit of work and each course constitutes one quarter of a student’s working time for one year. For the information of transfer students, one course is the equivalent of 8 semester hours. In most cases, Freshmen, Sophomores and Juniors take 4 units of work and Seniors \(3\frac{1}{2}\), including the unit of preparation for the Final Examination in the major field. This preparation usually consists of independent reading and conferences with members of the major department designed to review and correlate the material covered in the major.

Numerical grades on the scale of 100 are given in all courses counting for the degree. Each student must attain a grade of 70 or above in at least half of these courses and a grade of at least 60 in the remainder. In all courses in her major subject, she must attain grades of 70 or above. Should she receive a grade below 70 in a second-year or advanced course in the major subject, she may be required to change her major.
The degree of Bachelor of Arts is conferred upon students who have completed the course of study described above. The degree is awarded *cum laude, magna cum laude, and summa cum laude* to students whose numerical average in all their courses is 80-84, 85-89, 90 or above respectively. To students who have completed Honors work in their major subject the degree is awarded with honors in that subject.

Credit for work taken elsewhere is given as follows:

1. Transfer credit (see page 31)

2. Cooperation with Neighboring Institutions

Under the Three-College Plan for Cooperation, full-time students at Bryn Mawr may register for courses at Haverford College and Swarthmore College without payment of additional fees. Such registration must be approved by the Dean and the departments concerned. Credit toward the Bryn Mawr degree will be granted for such courses.

Students at Bryn Mawr may register for courses at Haverford (1) in order to include in their programs work not offered at Bryn Mawr, (2) in order to solve problems of schedule conflicts when courses are offered at both colleges and (3) whenever major departments advise.

Students registered for courses at Haverford should note that Haverford courses begin on the half hour and therefore be certain that their schedules allow for transportation time.

3. Summer School Work

Students desirous of supplementing their work at Bryn Mawr by taking courses in summer school are encouraged to do so. Students who wish to present summer school work for credit should first obtain approval of their plan from the Dean and from the department concerned. No credit will ever be given for work in which a student has received a grade below C. Credit given will be calculated on an hour-for-hour basis.

Supplementary requirements for the Degree are:

1. In addition to completing the course of study outlined above, all candidates for the A.B. degree must take the following work:

   a. Hygiene

   All students must meet the requirements in Hygiene by passing an examination based on reading assigned by the
College Physician and the Consulting Psychiatrists and given annually. The examination must be taken no later than the autumn of the junior year.

b. Physical Education

All students must meet the requirement in Physical Education. (See page 125).

2. Residence—Every candidate for the degree of Bachelor of Arts unless she is a transfer student or is permitted to accelerate her program must attend Bryn Mawr College for a period of four years. Students admitted on transfer from other colleges must study at Bryn Mawr for at least two years.

3. Full Program of Work—With few exceptions, all students carry a complete program and no student may spend more than the equivalent of the four undergraduate years in completing the work for the A.B. degree.

PREMEDICAL PREPARATION

Bryn Mawr, through the curriculum in liberal arts and sciences, provides the opportunity of meeting requirements for admission to the leading medical schools of the country, and each year a number of its graduates enter these schools. The minimal requirements for most medical schools are met by the following courses: Biology 101, Chemistry 101, Chemistry 202, Mathematics 101, Physics 101. Some medical schools also stipulate Chemistry 201a, and reading facility in French and German.

The requirements are fulfilled by a major in Biology, with the election of Mathematics 101 and Physics 101, or by a major in Chemistry, with the election of Biology 101. They can be met by a major in other subjects, such as literature or history, with careful planning of the student’s courses during her four years at Bryn Mawr and some work in the summer at an institution giving summer courses acceptable either to Bryn Mawr in substitution for its regular course work, or to the medical school of the student’s choice as preparation for its courses of study.

The College is able to award a number of scholarships for medical study from funds given for that purpose by friends interested in the advancement of women in medicine. These may be applied for on admission to medical school and are awarded at the end of the senior year for use during the first year of medical study, with the prospect of renewal for later years if the student’s need and her record in medical school warrant it.
COORDINATION IN THE SCIENCES

In 1935, a grant from the Carnegie Corporation of New York enabled the College to put into operation a Plan for Coordination in the Sciences. Under the plan, the science departments offer an unusual kind of science training, providing instruction in overlapping fields of natural science and related subjects. The program necessarily demands a thorough grasp of the fundamentals of at least two sciences, and usually also of mathematics. This training may be obtained in the first three years of undergraduate study and the interrelated work begun in the senior year and continued in the Graduate School.

Through the grant, the College is also able to offer both undergraduate and graduate scholarships to students who wish to prepare themselves for future work in these extremely fruitful areas of scientific investigation. The chairmen of the departments included in this plan (Biology, Chemistry, Geology, Mathematics, Physics, Psychology) will be glad to see students interested in it and to advise them about their courses of study. Such students should consult with the chairmen of the departments in which their special interests lie as early as it is possible to do so.

INTERDEPARTMENTAL COURSES

Each year, certain courses are offered which cut across well-defined areas of knowledge and emphasize relationships among them. Such courses are taught by two or more members of the faculty working in close cooperation. Since the material considered requires some background in at least two disciplines, the interdepartmental courses are usually offered at the advanced level, the exception being Interdepartmental 102, Introduction to Chemistry and Physics. For students who have progressed to the more complex aspects of their major subjects, the interdepartmental courses provide an opportunity to apply their training to new and broader problems and to benefit from the experience of seeing their own subject from the points of view of several specialists. To facilitate free discussion registration is generally restricted to a limited number of well-qualified students.

LANGUAGE HOUSES

Three small residence halls serve as language houses for upperclassmen who wish to speak French, Spanish or German. Sophomores, juniors or seniors who wish to live in a language house
should apply to the head of the appropriate department. Adequate preparation in the language is a prerequisite and those who are accepted agree not to speak English at any time. Residence in a language house provides an excellent opportunity to gain fluency in speaking a foreign language and is highly advisable for students planning to spend the junior year abroad.

**INSTITUT D'ÉTUDES FRANÇAISES D’AVIGNON**

Bryn Mawr College offers a summer program of intensive work in significant aspects of French culture. The program is open also to undergraduate men and women from other colleges. The Institut director and faculty members are French professors teaching in colleges and universities in the United States and France. Classes are held in the Palais du Roure and the facilities of the Bibliothèque Calvet are available to the group. Students live with families in Avignon. Applicants for admission must have strong academic records and have completed a course in French at the third-year college level or the equivalent. For detailed information concerning admission, curriculum, fees, academic credit and scholarships, students should consult Dr. Michel Guggenheim of the Department of French.

**CENTRO DE ESTUDIOS HISPANICOS**

Bryn Mawr College offers a summer program of intensive work held in Madrid, Spain. The program, under the direction of a member of the Department of Spanish, is open to men and women students from other colleges. The instructors are members of college and university staffs who are familiar with teaching standards and practices in this country.

Courses are offered both for the student whose interest is Spain and for the student who wishes to specialize in Latin American affairs. Students live with Spanish families. All participate in study trips and attend an excellent series of carefully planned lectures and cultural events. Applicants must have strong academic records and must have completed the equivalent of three years of college-level Spanish. For information students should consult Dr. Phyllis Turnbull of the Department of Spanish. A modest number of scholarships is available each year. The Centro was made possible by a grant from the Henry L. and Grace Doherty Charitable Foundation of New York.
Curriculum

Plan of Study for the Class of 1969
and Later Classes

IN 1965 the Bryn Mawr faculty approved changes in curriculum recommended by a special committee which had conducted a two-year review. The new plan under which the Class of 1969 will study takes into account both the changes of recent years in secondary school education and the expectation of graduate school on the part of a larger proportion of students. It provides greater flexibility and makes it possible for students to include a wider range of fields of knowledge and to have greater freedom to explore and elect. One way in which greater flexibility has been achieved is to include all departments of the College in a divisional system, thus allowing both humanist and scientist a greater variety of ways in which to meet college requirements.

The plan for the curriculum may be outlined as follows:

I. All candidates for the A.B. degree shall present 16 units\(^1\) of work. In most cases a unit of preparation for the Final Examinations in the Major Subject will constitute one of these units.

II. All students must present as a requirement for the degree one unit of work from each of the following four divisions.

\(^1\) A unit of work is the equivalent of eight semester hours and is either a year course, or when appropriate, two one-semester courses.
C 2

Bryn Mawr College

Group I
History
Philosophy
Anthropology
Economics
Education
Political Science
Psychology
Sociology

Group II
Biology
Chemistry
Geology
Physics
Mathematics

Group III
English Literature
Modern Literatures
Classical Literatures
(The foreign literatures at the level presently permitted under the literature requirement)

Group IV
History
Philosophy
Archaeology
History of Art
History of Music
History of Religion

The following directions and qualifications are to be noted:

a. A student (not majoring in subjects under Group II) may elect a second course under Group II as an alternative to any one of her other divisional requirements.

b. No course may satisfy more than one divisional requirement. Students majoring in History or Philosophy may count a course in their major as satisfying the requirement in either Group I or Group IV, but not both.

c. Courses taken to satisfy the requirements in English and Languages or Mathematics described below do not count as fulfilling divisional requirements.

1. In special cases and with the approval of the Curriculum Committee, Biblical Literature will serve as fulfilling the literature requirement.

2. Mathematics may be chosen as this second course, but may not be chosen as fulfilling the Group II requirement if only one course in that group is taken.
Curriculum

III. In addition to the divisional requirements, each student must:

A. Include in her program two semesters of English composition (English 15) unless by advanced placement or by an examination given by the Department of English she has shown evidence that she has already attained proficiency at this level.

B. Achieve a certain level of proficiency in languages or mathematics, the level to be demonstrated in one of the three following ways:

1. She may demonstrate a knowledge of two foreign languages by
   a. attaining a score of at least 590 on a College Board Achievement Test taken in the senior year of high school or by passing with an honor grade an Advanced Placement Test, or
   b. passing an examination offered by the College every spring and fall, or
   c. passing with a grade of at least 70 a College course above the elementary level. Such courses must be completed before the senior year.

2. She may offer one language to be tested as described above and demonstrate proficiency in mathematics by
   a. attaining a grade of 4 or 5 on the Advanced Placement Test, or
   b. passing an examination offered by the Department of Mathematics each spring and fall, or
   c. achieving a grade of at least 70 in Mathematics 101, 103, or a more advanced course.

3. She may offer one language to an advanced level of proficiency to be demonstrated by passing with a grade of at least 70 one course or two semester courses at the 300 level.
IV. At the end of the sophomore year each student must choose a major subject, and in consultation with the departmental adviser plan an appropriate sequence of major and allied courses; she must also make plans for fields which she will offer in the Final Examinations in the Major Subject and the kind of preparation for these examinations which she will undertake. Usually a major is made up of four courses, two courses of allied work, the equivalent of one advanced course in preparation for Final Examinations in the Major Subject, and these examinations in the spring of the senior year. No student may be required to offer more than six units of work in the major subject. Students invited to participate in the Honors program (see page 44) count the Honors project as one of the major subject units.

In brief outline, each student’s program will include:

1. a unit of work in English, unless she is exempt
2. work to achieve the required level of proficiency in one language, or
   two languages, or
   one language and mathematics
3. four units of work, one from each of the divisions I-IV
4. a major subject sequence of at least four units of work and two units of allied work
5. elective units of work to complete an undergraduate program of at least 16 units.

The grading system, rules for standards of work, Honors, and supplementary requirements for the degree are unchanged, and members of the Class of 1969 should refer to pages 44-6.
THE JUNIOR YEAR ABROAD

Qualified students may apply for admission to certain groups which offer a junior year in Europe. Bryn Mawr students may study in Paris under the junior year plans sponsored by Sweet Briar College or Smith College; in Geneva, Florence, Hamburg, or Madrid with groups organized by Smith College, or in Munich or Freiburg with the group sponsored by Wayne University. Applicants must have excellent academic records and must give evidence of competence in the language of the country where they plan to study. In general, two years of study at the college level are necessary to provide adequate language preparation. The junior year groups are not limited to language majors; they often include majors in, for example, History of Art, History or the social sciences. All students who plan to study abroad should consult the chairmen of their major departments to be certain that the work done in Europe may be coordinated with the general plan for the major subject.

SCHOLARSHIPS AND OTHER STUDENT AID

All students are, strictly speaking, on scholarship in the sense that their tuition fees do not wholly cover the costs of instruction. To those students well-qualified for education in liberal arts and sciences but unable to meet the college fees, Bryn Mawr is able to offer further scholarship aid. Alumnae and friends of the College over many years have built up endowment for scholarships. Annual gifts from alumnae and alumnae clubs and from industrial and professional groups add to the amounts available each year. It is now possible to provide at least partial scholarships for one quarter to one third of the undergraduate students in the College. Full information about the scholarships available and other forms of help for meeting the expenses of college education will be found in the section, Financial Aid.
Courses of Study

Key to Course Numbers and Symbols

1, 2, 3 ............ indicate elementary and intermediate courses. With the exception of Greek 1 and Russian 1 these courses are not part of the major work.

101, 102, etc. ........ indicate first-year courses in the major work.

201, 202, etc. ........ indicate second-year courses in the major work.

301, 302, etc. ........ indicate advanced courses in the major work.

* ..................... indicates elective courses, open to all students without prerequisite unless a specific prerequisite is stated.

a ..................... the letter "a," following a number, indicates a half-course given in the first semester.

b ..................... the letter "b," following a number, indicates a half-course given in the second semester.

c ..................... the letter "c," following a number, indicates a half-course given two hours a week throughout the year.

[ ] .................. Square brackets enclosing the title of courses indicate that these courses are not given in the current year.

In general, courses which are listed as full-year courses must be carried through two semesters. In some cases one semester of such a course may be taken with credit, but only with permission of the Dean of the College and the Department concerned. Students are reminded that one unit of work carried throughout the year is the equivalent of eight semester hours, or eleven quarter hours.
The courses offered are designed to present the principles underlying biological science to liberal arts students interested in man's understanding of the world in which he lives and his own position in it. Primary consideration is devoted to the interplay of development, structure and function in determining the unity and diversity which characterize the plant and animal kingdoms, and to the historical and dynamic interrelationships of living organisms with each other and with their environments. In the laboratory the student learns by dissection and microscopic study the gross and detailed anatomy of representative animals and plants, and by experimentation the functional relationships within them and their operation under natural and controlled experimental conditions.

Requirements in the Major Subject: Biology 101, 201, and at least two advanced courses and, as allied work, Chemistry 101 and 202. Physics 101, Mathematics 101 and Chemistry 201 are strongly recommended as allied work and are required for admission to some medical schools. The Biology Department has no special language requirements, but students should note that the ability to read French and German is essential for those expecting to do graduate work and is required for admission to some medical schools.

Allied Subjects: Chemistry, Physics. Other subjects may be included with the approval of the Department.
101. *General Biology*: Mr. Berry, Mr. Conner, Miss Oppenheimer, Miss Barnett. Laboratory: Mrs. McConnell and assistants.

A presentation of the fundamental principles of development, structure and function in organisms. A wide range of plants and animals is studied to illustrate broad biological problems and theories of historical and contemporary interest. Lectures three hours, laboratory three hours per week.


A study supplementing that of the first-year course, of the anatomy of representative vertebrates, their physiology and natural history. Lectures three hours, laboratory four hours per week. Prerequisite: Biology 101.

201b. *The Biology of Plants*: Mr. Hopkins.

Fundamental principles of plant structure and function with emphasis on their relationship to the environment. Lectures three hours, laboratory four hours per week. Prerequisite: Biology 101.

301a. *Genetics*: Miss Barnett.

A study of the basic principles of genetics and the modern developments in the field. Lectures three hours, laboratory four hours per week. Prerequisites: Biology 101 and 201. The prerequisite of Biology 201 may be waived with departmental permission.


A study of the functional problems characteristic of plants. Lectures three hours, laboratory four hours per week. Prerequisites: Biology 101, Chemistry 101, Biology 201, Chemistry 202. Chemistry 202 may be taken concurrently.

303b. *Cell Physiology*: Mr. Conner.

A study of the composition of the activities of the cell in terms of physical and chemical processes. Lectures three hours, laboratory four hours per week. Prerequisites: Biology 101, Chemistry 101, Biology 201, Chemistry 202. Chemistry 202 may be taken concurrently.

304b. *Vertebrate Physiology*: Mr. Berry.

A study of the function and regulation of selected organ systems in higher vertebrates. Lectures three hours, laboratory
four hours per week. Prerequisites: Biology 101, Chemistry 101, Biology 201, Chemistry 202. Chemistry 202 may be taken concurrently.

352. Advanced Plant Physiology: Mr. Hopkins.
A study of recent advances in plant physiology with emphasis on the problems of growth and development. Lectures two hours, laboratory six hours per week. Prerequisites: Biology 302a, Chemistry 202. Chemistry 202 may be taken concurrently with permission.

353. Biochemistry: Mr. Conner.
The chemistry of living organisms with special emphasis on the chemical principles in physiological phenomena. Lectures two hours per week. Prerequisites: Chemistry 202, Biology 302b; one or both of these prerequisites may be waived by permission of the Department. Physics 101 is recommended. This course may be taken without laboratory for one-half unit of credit by students concurrently taking Chemistry 203, an advanced course in Chemistry or Honors in Biology.

[354. Physiology of Micro-organisms: Mr. Berry. Not offered in 1965-6.] An introduction to the fundamental physiological and biochemical principles associated with studies of micro-organisms, including host-parasite relationships and other interactions between organisms. Major emphasis is given to bacteria and bacteriological techniques. Lectures two hours, laboratory six hours per week. Prerequisites: Biology 101 and 201, Chemistry 202.

[355. Developmental Biology: Miss Oppenheimer. Not offered in 1965-6.] Discussion of factors controlling growth and differentiation in vertebrates and invertebrates. Lectures two hours, laboratory six hours (minimum) per week. Prerequisites: Biology 101 and 201.

Honors Work: Honors work in any of the advanced fields is offered to qualified students.

Final Examination: The Final Examination consists of one four-hour general examination covering the areas of study of the four years of undergraduate work and two four-hour field examinations. Students who elect Honors work are excused from one of the field examinations.
Chemistry

Professors: Ernst Berliner, Ph.D., Chairman
George L. Zimmerman, Ph.D.¹

Associate Professors: Frank B. Mallory, Ph.D.
Joseph Varimbi, Ph.D.

Assistant Professor: Jay Martin Anderson, Ph.D.

Lecturers: Frances Bondhus Berliner, Ph.D.
Marian Pariseau, Ph.D.

Assistants: Thomas Colman, B.S.
Penny Jane Gilmer, A.B.
Michael Hoffman, B.S.
Sara Miller, M.S.
John Raniseski, M.S.
Donna Stevenson, A.B.

The major in Chemistry is designed to give the student a sound background in the four major fields of Chemistry: Inorganic, Analytical, Organic and Physical Chemistry. The courses are arranged in such a sequence as to convey an insight into the development of chemical theories from basic scientific principles. In the advanced courses the student begins to be acquainted with current problems in special fields and with modern approaches to their solutions. The emphasis throughout is on the fundamental principles on which Chemistry is based and which are exemplified and further clarified by laboratory work taken in conjunction with each course.

Requirements in the Major Subject: Chemistry 101, all 200 courses and one and one-half units of advanced work (exclusive of Chemistry 304a). Physics 101, Mathematics 101 and a reading knowledge of German are also required. Students are urged to take also Mathematics 201.

Allied Subjects: Biology, Geology, Mathematics, Physics.

101a. General Chemistry: Mr. Mallory, Mrs. Berliner and assistants.

An introduction to the theories of chemistry and the study

¹. On sabbatical leave for the year, 1965-6.
of the non-metals. No knowledge of chemistry is presupposed. Three lectures, three hours laboratory a week.

101b. General Chemistry: Mr. Berliner, Mrs. Berliner and assistants.

Ionic equilibria and the systematic qualitative analysis of inorganic substances. A study of the metallic elements. Three lectures, three hours laboratory a week.

102. Introductory Chemistry and Physics: Miss Hoyt, Mr. Varimbi.

See Interdepartmental Course 102, page 123.

201a. Quantitative Analysis: Mr. Varimbi.

Theories and practice of the quantitative determination and separation of inorganic substances. Two lectures, eight hours laboratory a week.


First semester: aliphatic chemistry; second semester: aromatic chemistry and natural products. Three lectures, five hours laboratory a week.

203. Physical Chemistry: Mr. Anderson.

Structure and kinetic-molecular theory of matter, elementary thermodynamics and chemical kinetics. Two lectures and one conference, five hours laboratory a week. Prerequisites: Mathematics 101, Physics 101 and Chemistry 201a. (The latter two may be taken concurrently.)

301b. Inorganic Chemistry: Miss Pariseau.

A systematic study of the descriptive and theoretical chemistry of the elements and their compounds based on the Periodic Table. Two lectures, six hours laboratory a week.

302a & b. Advanced Organic Chemistry: Mr. Mallory, Mr. Berliner.

Lectures: theories and fundamental principles of organic chemistry. Laboratory: (first semester) organic qualitative analysis; (second semester) advanced synthesis and laboratory techniques. Two lectures, six hours laboratory a week. The first semester may be taken without the second (1/2 unit).

303a. Chemical Thermodynamics: Mr. Anderson.

Two lectures and one conference a week. Laboratory in the second semester only: six hours a week.
303b. *Quantum Mechanics of Atoms and Molecules:* Mr. Anderson.
Two lectures and one conference a week. Prerequisite: Chemistry 304a.

Two lectures and one conference a week. Prerequisite: Mathematics 201, or the equivalent.

305b. *Advanced Inorganic Chemistry:* Mr. Varimbi.
Two lectures a week.

**Final Examination:** The examination consists of three parts:
- a. Analytical and Inorganic Chemistry
- b. Organic Chemistry
- c. Physical Chemistry. Each candidate must elect to answer two of the three parts at an advanced level.

For one of the subjects above, an examination in an allied subject, covering at least two years of work, may be offered. In that case the student need take only one unit of advanced work.

**Honors Work:** Honors work may be taken by qualified students in conjunction with any of the advanced courses.

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**Classical and Near Eastern Archaeology**

**Professor:** Machteld Johanna Mellink, Ph.D., *Chairman*

**Assistant Professors:** Kyle M. Phillips, Jr., Ph.D.
Brunilde Sismondo Ridgway, Ph.D.

**Assistant:** Louise A. Alpers, A.B.

**Professor of Anthropology:** Frederica de Laguna, Ph.D.

The major courses provide an extensive survey of the ancient Mediterranean civilizations, with emphasis on the Greek arts of sculpture, architecture and vase-painting.

**Requirements in the Major Subject:** Archaeology 101, 201b, 203, 205b and 301.

**Allied Subjects:** Ancient History, Anthropology, Greek, History of Art, Latin.
101. *An Introduction to Ancient Art*: Mrs. Ridgway, Mr. Phillips.

In the first semester a general survey of the evolution of ancient art is given, beginning with the Egyptian and Mesopotamian heritage and studying its importance to Aegean art and to the origins of Greek art proper. The major achievements of archaic and classical Greek art are discussed in some detail.

In the second semester the principal features of Hellenistic, Etruscan and Roman art in Italy and throughout the Mediterranean world to the end of the Roman Empire in the West, ca. A.D. 476, are studied.

A fourth hour weekly is devoted to informal discussion.

201b. *Egyptian and Mesopotamian Archaeology*: Miss Mellink.

An introduction to the cultures of the ancient Near East, stressing their origins and the rise of local traditions.

[202a.* *Cultural History of Archaeology*: Miss Mellink.]

The development of archaeology through the ages: antiquarian interests, early excavations and travels, the position and future of archaeology as a modern discipline.

202b. *Ancient Greek Cities and Sanctuaries*: Mrs. Ridgway.

A course considering in a comprehensive way the ancient form and general cultural importance of such sites as Athens, Delphi and Olympia, with emphasis on the history, religion and mythology connected with each center.


The development of Greek sculpture from its beginnings to Roman times. The term paper deals with a piece of sculpture selected by the student.

203b. *Later Greek and Roman Sculpture*: Mr. Phillips.

The development of Roman sculpture from its beginnings in Etruscan and Greek Italy and the Hellenistic world to the end of the Roman Empire in the West, ca. A.D. 476. The term paper deals with individual monuments or groups of sculpture selected by the student.

205b. *Aegean Archaeology*: Miss Mellink.

The pre-Greek cultures of the Aegean area; Minoan Crete and related cultures, the encounter of pre-Greeks and Hellenes;
the first consolidation and expansion of Greek culture in the Mycenaean age.

301a. Greek Vase-Painting: Mr. Phillips.

The development of Greek vase-painting as an original form of art, its relation to monumental painting, and its place in Greek archaeological research.

301b. Ancient Architecture: Mrs. Ridgway.

The ancient architectural tradition in its historical context, with study of the Greek temple as its dominant achievement.

[302a. The Greek Style in Art: Miss Mellink.]

An analysis of the originality and consistency of style in the various fields of Greek art. The course will be conducted as a discussion group with reports and a term paper. Prerequisites: Classical and Near Eastern Archaeology 101, 201, 203, 301.

[303. Anatolian and Syrian Archaeology: Miss Mellink.]

A comprehensive course on Near Eastern archaeology with special emphasis on the peripheral and intermediate areas and their connections with the Aegean. Prerequisites: Archaeology 101, 201, 203, 301. The course is meant for seniors and is taught in the form of a seminar with papers and reports.

304a. Ancient Monumental Painting: Mr. Phillips.

The arts of wall-painting and mosaics in Greece and Italy.

Final Examination: Three examinations on any three of the fields covered by the undergraduate courses, but with questions of broader scope involving more extensive knowledge. During their senior year majors attend weekly one-hour conferences in each of their selected fields. If a student wishes, she may write one of the three examinations in an allied field.

Honors Work: A long written paper is submitted on a topic selected by the student and approved by the Department. In preparation, the student confers throughout the year with the member of the Department under whose direction the paper is prepared.

Excavations: The current excavation project as part of the graduate program of the Department is an investigation of the Bronze Age habitation of Southwestern Anatolia (more specifically ancient Lycia) and will continue in the fall of 1963.
Economics

Professors:

MORTON S. BARATZ, PH.D.,
Chairman

JOSHUA C. HUBBARD, PH.D.

Assistant Professors:

RICHARD B. DU BOFF, PH.D.

GEORGE I. TREYZ, A.B.

At Haverford Professors:

HOLLAND HUNTER, PH.D.

HOWARD M. TEIF, JR., PH.D.

PHILIP W. BELL, PH.D.

Assistant Professor:

CHIOU-SHUANG YAN, PH.D.

The major in Economics consists of courses given at Bryn Mawr and at Haverford Colleges. It is designed (1) to provide students with an understanding of economic processes and institutions, (2) to train them in the concepts and methods used to analyze those processes and institutions, and (3) to enable them to make independent policy judgments.

Requirements in the Major Subject: Economics 101a and 102b, and four and one-half units of intermediate and advanced work. The introductory courses, Economics 101a and 102b, are designed to give the kind of informed perspective on economic principles and problems that is an integral part of a liberal education. The group of intermediate courses offers a fuller range of material on major topics in the discipline, and is designed to meet a wide variety of student interests. The group of advanced courses supplies a theoretical and methodological foundation for those planning to make use of economics in their professional careers. All students, but especially those who intend to seek an advanced degree in Economics, are strongly urged to take Mathematics 101 or 103, which will count as part of their allied work.

Prospective majors in Economics are advised to take Economics 101a and 102b in the freshman year.

Allied Subjects: Mathematics, Political Science, History, Philosophy, Psychology, Sociology, Anthropology.

101a. Introduction to Economics: Mr. Baratz, Mr. Du Boff, Mr. Hubbard.

Study of the principles underlying the determination of the
level of national income and employment, and the techniques and institutions which have been devised in the United States for promoting growth in output with minimum instability in prices and employment.

102b. *Introduction to Economics*: Mr. Baratz, Mr. Du Boff, Mr. Hubbard.

Study of the principles underlying the determination of individual prices and incomes, the issues that arise in international economic affairs, and the problems that face poor countries.


Long-term trends in output, resources, technology; structure of consumption, production, distribution; foreign trade and finance; and shorter term variations in business activity and capital investment. Quantitative findings provide the points of departure. Prerequisite: Economics 101a, 102b.

202b. *Non-Western Economic Development*: Mr. Baratz.

An introduction to the institutional settings and economic patterns that account for underdevelopment in poor countries, and a review of efforts to overcome barriers to rapid development. Case studies of selected countries in Latin America, Africa or Asia. Prerequisite: Economics 101a, 102b.

203a. (23 Haverford College) *Technology, Work and Leisure*: Mr. Teaf.

Study of the social and personal problems arising out of rapid technological change and its effect on the labor force. Responses of unions, employers, and public authorities. Arrangements for minimizing insecurity and conflict. Prerequisite: Economics 101a, 102b or two courses in Sociology.

[204b. (24 Haverford College) *The Modern Corporation*: Mr. Teaf.]

An analysis of the institutional fundamentals underlying corporate decision-making, and a review of ethical issues surrounding corporate performance in contemporary society. Prerequisite: Economics 101a, 102b.


A theoretical and empirical analysis of the structure of industrial markets and the behavior of business firms in a competitive economy; legal restrictions on business policy; social and political
implications of public regulations of private enterprises. Prerequisite: Economics 101a, 102b.


207a. Money and Banking: Mr. Hubbard.

The development and present organization of the money and banking system of the United States; domestic and international problems of monetary theory and policy. Prerequisite: Economics 101a, 102b.

208b. Public Finance and Fiscal Policy: Mr. Hubbard.

A study of taxation and expenditures with particular emphasis on the Federal budget; fiscal policy as a positive means of shaping public taxation and expenditure so as to contribute to a stable full-employment economy. Prerequisite: Economics 101a, 102b.

[209a. Western European Economic Development: Mr. Du Boff.]

Topics in the economic history of Great Britain, France, Italy and Germany, and the relationships among them, since 1760 are examined, both theoretically and in the light of the empirical evidence. Prerequisite: Economics 101a, 102b. Offered in alternate years.


An analysis of the structure and functioning of major Soviet economic, political and social institutions. Current arrangements are studied as products of historical development. Present performance and prospects are evaluated. Prerequisite: Two semester courses in Economics, Political Science, or History.

See Interdepartmental Course 210b, page 123.


Analysis of certain fundamental economic and political problems in Latin America. Open to students who have had at
least one year of Political Science (for prerequisites, see page 105) and Economics. Preference given to those with a reading knowledge of Spanish or Portuguese.

See Interdepartmental Course 211a, page 124.


An analysis of capitalist, socialist, mixed and communist economic organizations. Theoretical aspects (including free market, Marxist-Leninist, and democratic socialist principles) and contemporary national cases are studied. Prerequisite: Economics 101a, 102b. Offered in alternate years.

213a. (41 Haverford College) Business and National Accounting: Mr. Teaf.

A study of the fundamentals of corporate accounting and their extension to the national accounts. Emphasis is placed on the derivation of the major reports of businesses and of the national economy. Prerequisite: Economics 101a, 102b.

214b. Theories and Problems of Change: Mr. Hubbard.

An analysis of the Industrial Revolution with particular reference to the pattern of dynamic growth and the Classical, Marxian, Neoclassical and Modern Theories. Prerequisite: Economics 101a, 102b. Offered in alternate years.

301a. Statistical Methods in Economics: Mr. Treyz.

An introduction to the concepts and procedures that underlie quantitative analysis of economic and other social data. Frequency distributions, probability, sampling, time series, index numbers, regression analysis. Prerequisite: Economics 101a, 102b.

302b. Introduction to Econometrics: Mr. Treyz.

Elementary methods for the empirical testing of hypotheses concerning static and dynamic economic relationships. Interpretation of multiple regression and other analytic methods. Students gain familiarity with the IBM 1620 computer. Prerequisite: Economics 301a or permission of instructor.

303a. (45 Haverford College) Macroeconomic Analysis: Mrs. Yan.

Rigorous review of the theoretical foundations of income determination, monetary phenomena, and economic fluctuations. Introduction to dynamic processes. Prerequisite: Economics 101a, 102b.

304b. (46 Haverford College) Microeconomic Analysis: Mrs. Yan.

Systematic investigation of analytic relationships underlying
consumer welfare, efficient resource allocation, and ideal pricing. Introduction to operations research. Prerequisite: Economics 101a, 102b.

[305a. (47 Haverford College) Development Analysis: Mr. Hunter.]

Theoretical treatment of the structural changes associated with the process of economic development, especially in poor countries, and rigorous analysis of criteria for policy judgments in development programming. Introduction to input-output and linear programming methods. Prerequisite: Economics 101a, 102b.


Current problems, selected in accordance with student interests, are investigated with the aid of economic theory and quantitative methods. Research paper required. Prerequisite: Economics 301a, 302b.

**FINAL EXAMINATION:** The Final Examination for students majoring in Economics consists of:

1. An examination in general economic principles and problems;
2. An examination in economic theory; and
3. An examination in one of the following:
   a. Monetary-Fiscal Theory and Policy
   b. Private Enterprise and Public Policy, including Corporations
   c. International Economics
   d. Comparative Economic Systems, including the Soviet System
   e. Labor Economics
   f. Economic History, American or Western European
   g. Economics of Development
   h. Quantitative Methods in Economics

With the permission of major and allied departments, one examination may deal with an allied subject.

Non-majors will be permitted to take a Final Examination in Economics if the Department of Economics judges their prior work in the discipline adequate.

**HONORS WORK:** One unit of Honors work may be taken by students recommended by the Department.
Education

President of the College: Katharine Elizabeth McBride, Ph.D.

Professor and Director, Child Study Institute: Rachel Dunaway Cox, Ph.D., Chairman

Assistant Professors: Ethel W. Maw, Ph.D.
                   David P. Nowlis, Ph.D.

Lecturer and Director, Thorne School: Dianne H. Warner, M.A.

Assistant: Lelia Brodersen, M.A.

The work in Education is designed for students preparing for teaching or for work with children in a variety of fields. The curriculum treats the nature and development of the child, the psychology of teaching and learning, and principles of measurement. It deals with the history, philosophy and objectives of the school as a social institution.

Although there is no major in Education, a sequence of courses in the Department enables the student to prepare for teaching. Students expecting to teach are urged to confer with the Department during the freshman year. With careful planning at that time, work leading to the certificate to teach in the secondary school in most states can be taken concurrently with a liberal arts major. The suggested sequence includes, in the order named, General Psychology, Principles of Teaching, Educational Psychology, Child Psychology or History and Philosophy of Education, and Principles of Teaching in the Secondary School. The last named course includes supervised practice teaching twelve hours weekly throughout one semester.

The certificate to teach in the elementary school requires some substitutions in the list above plus additional requirements which differ from state to state. The basic work offered by this Department must be supplemented by courses taken elsewhere.

The Phebe Anna Thorne School is maintained by the Department of Education as a laboratory for child study where undergraduates have experience with young children. The pre-school program, in which advanced students assist, provides training for those planning to teach.
The Department also operates the Child Study Institute. This is a psychological and child guidance clinic supported by the College, by the Lower Merion Township Schools and by a grant-in-aid from the Commonwealth of Pennsylvania. Problems of learning and behavior are studied; psychological testing, psychiatric treatment, remedial teaching and a program of counseling for children and parents are carried on. Advanced students participate in the work, and undergraduate and graduate students observe in the schools.

Referrals also come to the Institute from the neurological and pediatric departments of the Bryn Mawr Hospital, from physicians and families, and from social agencies, giving the students the opportunity for acquaintance with a diversity of clinical material. Space and modern equipment are provided for teaching and research.


The organization and objectives of the school and principles of child development, of learning and of guidance which should be taken into account if these objectives are to be achieved.

[102b. History of Education: Mrs. Maw.]

A study of the interrelation of education and culture from earliest times to the present day with particular consideration given to current educational issues as they are rooted in the historical process.

201a. Educational Psychology: Mr. Nowlis.

Psychology and measurement related to educational objectives, particularly from the point of view of what is currently known about human social, affective, cognitive and learning behavior. Laboratory work is required.

[202a. Child Psychology: Mrs. Cox.]

The development of the child from infancy to maturity. Physical, intellectual and emotional growth and learning in the family and the school. Two hours laboratory per week in the Thorne School. Prerequisite: Psychology 101a.


The objectives, curriculum and organization of the secondary school. The nature of the learner and his relation to the school program and aims. Two-hour seminar per week; 12 hours practice-teaching in the junior or senior high school.

The objectives and curriculum of the elementary school. The nature of the learner and the learning process during the early school years. Two-hour seminar per week; 12 hours practice-teaching in the elementary school.

[Students electing these courses should note that practice-teaching requires returning to the Bryn Mawr area early in September. Registered students may come into residence on the last day of Freshman Week but must make their own plans for living arrangements.]

English

Professors: Mary Katharine Woodworth, Ph.D., Chairman
             K. Laurence Stapleton, A.B.
             Warner B. Berthoff, Ph.D.

Associate Professors: Isabel Gamble MacCaffrey, Ph.D.
                      Robert Hawes Butman, M.A.

Assistant Professors: Robert B. Burlin, Ph.D.
                      Catherine Rodgers, Ph.D.
                      Eleanor Winsor Leach, Ph.D.
                      Peter J. Leach, M.F.A.

Visiting Lecturer: Robert Y. Turner, Ph.D.

Lecturers: Joan L. Klein, Ph.D.
           Robert L. Patten, Ph.D.

Instructors: Sandra M. Berwind, M.A.
             Ramona T. Livingston, A.B.
             Virginia B. Pennypacker, M.A.
             Doris Quinn, M.A.
             Patricia H. Russell, Ph.D.

To the student planning to major in English the Department offers courses covering all periods of English literature. The student selects her fields within this broad range and devotes special attention to one period or literary genre.

Requirements in the Major Subject: Students majoring in English must take English 101 or 102 unless they have the recommendation of the Department to enter a second-year course. They
must complete four second-year and advanced courses in English literature, of which at least one should be an advanced course. Students who wish to specialize in the field of Old and Middle English must take some courses in later periods, and those specializing in modern literature must take English 201 or 300 or 301, or, in exceptional cases, certain other courses approved by the Department. Credit will not be given for a single semester's work in full-year courses unless the Dean of the College recommends, and the Department approves, that an exception be made.

Allied Subjects: The student is advised to build a strong ally in classical or modern literature, History, Philosophy or History of Art. With the permission of the Department, certain courses in Music, History of Religion, Political Science, Sociology and Linguistics may also be counted. Any second-year or advanced writing course may be substituted for one unit of allied work.

WRITING, LANGUAGE, AND SPEECH

15. English Composition and Reading: Mrs. MacCaffrey, Mr. Burlin, Miss Rodgers, Mr. Leach, Mrs. Leach, Mr. Patten, Mrs. Klein, Mrs. Livingston, Mrs. Berwind, Mrs. Quinn, Miss Russell, Mrs. Pennypacker.

Practice in writing based upon the study of selected authors, with emphasis upon ideas and the problems of the writer in his time. The student will read fiction, poetry, and critical and argumentative prose in one of the following fields: (a) Literature of the twentieth century; (b) American Literature, 1840 to the present; (c) English Literature of the Renaissance; (d) Themes and Forms in Literature. There will be weekly papers and discussions, and regular conferences.

In 209, 215a and 306 weekly papers are usually required. Students who cannot meet this requirement should not elect any of these courses.

209.* Experimental Writing: Mr. Leach.

Practice in various forms of writing, fiction and non-fiction. Attention is paid to the needs and interests of each student. Pre-requisite: English 15 at Bryn Mawr or the written permission of the instructor.

210a.* Playwriting and Production: Mr. Butman.

Writing of two original one-act plays.
210b.* Advanced Playwriting and Production: Mr. Butman.
Writing of a full-length play and preparation of its production-book. Prerequisite: approval of the instructor.
[211.* Verse Composition: Miss Stapleton.]
Original verse composition, with a study of the principles of form.
[215a.* Prose Writing: Mr. Leach.]
Practice in various forms, excluding fiction and with emphasis on exposition and description. Prerequisite: English 15 at Bryn Mawr or the permission of the instructor.
306* & 306c.* Advanced Writing: Mr. Leach.
Practice in various forms of writing with the emphasis on technical problems. Prerequisite: English 209.

LITERATURE
101. Introduction to English Literature: Miss Rodgers, Mrs. Leach.
A critical study of major works and representative writers, with emphasis upon the historical context and the growth of literary tradition.
102a & b. Readings in English Literature.
Readings are chosen to illustrate particularly the development of genres and the themes related to them. A different, unified group of works will be used each semester. In 1965-6, the subjects will be:
102a. Tragic and Comic Patterns: Miss Rodgers.
102b. Heroic and Pastoral Poetry: Mrs. Leach.
201. Chaucer: Mr. Burlin.
The emphasis is upon Chaucer and his contemporaries. Sufficient instruction is given in Middle English to enable the student to read ordinary texts.
During the year all the plays are read, and several are studied in detail.
203. The Romantic Period: Mr. Patten.
English Literature from 1789 to 1832. Attention is centered upon the poets.
[204. The Victorian Period: Mr. Patten.]
   Major poets and novelists, the prose of Carlyle, Mill, Ruskin
   and others. Some attention is given to the drama.

[205. Representative English Novelists: Mr. Berthoff.]
   A study of the development of English fiction, and of the
   novel as a literary form, through the works of selected novelists
   in the eighteenth and nineteenth centuries. Prerequisite: the
   reading of two novels by each of the following: Charlotte Brontë,
   Dickens, Thackeray, George Eliot, Meredith.

[206b. Restoration Drama and the Age of Dryden: Mrs. Klein.]
   Heroic drama, the comedy of manners, sentimental comedy:
   Dryden's poetry and criticism; readings in social, religious, and
   philosophic writings of the Restoration.

207. English and American Literature of the Last Half-Century:
   Miss Woodworth.
   The modern movement, its experiments and tendencies,
   with concentrated study of major writers, Yeats, Joyce, Eliot and
   others.

208. American Literature: Mr. Berthoff.
   From the beginnings to the present day.

212b. Blake: Miss Woodworth.
   A study of the poetry, prose, paintings and engravings of
   Blake, with emphasis on intellectual history and the develop-
   ment of art in the period.

   About a dozen poems of middle length by different authors
   will be studied intensively, with copious supplementary reading
   in the poets and their background.

215b. Modern English and Irish Drama: Mrs. Klein.
   Shaw and his contemporaries; Irish playwrights, including
   Synge, O'Casey, and Yeats; more recent playwrights such as Eliot,
   Fry, Osborne, and Pinter.

[300. Old English Literature: Mr. Burlin.]
   After a brief introduction to the language and some reading
   of prose, the first term will be devoted to short lyrics and ques-
   tions of Old English poetic style; the second term, to a careful
   study of the text and critical problems of Beowulf.
301. *Narrative, Plays and Lyrics of the Later Middle Ages*: Miss Rodgers.

Readings in Middle English texts (exclusive of Chaucer) with emphasis on the lyric, the romance, the mystery play and certain contemporaries of Chaucer such as Langland. Attention will also be given to the works of Malory.


Emphasis will be placed on the poetry, beginning with Wyatt, and with special attention to Spenser and the non-dramatic poetry of Shakespeare. There will also be reading in the prose writing and the background of the period.


A rapid survey of earlier periods is followed by closer study of Elizabethan and Jacobean drama, excluding Shakespeare.


Among the writers studied are Bacon; Donne and the Metaphysical poets; Ben Jonson and his school; Sir Thomas Browne. About half of the time is devoted to Milton, and special attention is given to the thought of the period.

[305. *The Eighteenth Century*: Miss Woodworth.]

The age of Pope and Swift; the rise of the novel; Dr. Johnson and his circle.

**Final Examination**: The Final Examination is in three parts:

1. Literary criticism, literary genres, and problems of style. Based upon the reading of certain critical works of fundamental importance. Each student is expected to draw illustrative material from the fields in which she has elected to work.

2. An examination in one of the following periods. The student must choose a period other than that which embraces her special field.
   a. The Middle Ages (to 1500)
   b. Later Middle Ages and Early Renaissance (1370-1600)
   c. The Renaissance (1500-1660)
   d. Neo-Classicism and Romanticism (1660-1832)
   e. The Nineteenth and Twentieth Centuries (English or English and American)
3. An examination in one of the following fields of concentration: Old English; Middle English; The Drama to 1642; Elizabethan Literature, non-dramatic; The Seventeenth Century; The Eighteenth Century; Romanticism; Victorian Literature; The Novel; The Drama from 1660 to the Present Time; English and American Literature, 1890-1939; American Literature.

With the consent of the Department an examination in an allied subject may be substituted for the examination in the special field.

Honors Work: In the senior year Honors work, consisting of independent reading, reports and conferences, is offered to students of marked ability. Honors papers are due on May 3.

French

Professor: Mario Maurin, Ph.D., Chairman
Associate Professor: Michel Guggenheim, Ph.D. ¹
Visiting Professor: William J. Roach, Ph.D.
Assistant Professor: M. Pauline Jones, Ph.D.
Instructor: Ellen S. Ginsberg, Ph.D.

The major in French includes work in both literature and language. In the first year students are introduced to the study of French literature, and special attention is given to the speaking and writing of French. Two second-year courses treat French literature from the beginning to the present day. In these courses, students whose command of written French is inadequate will be required to attend regularly sessions devoted to special training in writing French. A third second-year course is devoted to advanced language training with practice in spoken as well as in written French.

Advanced courses offer detailed study of individual authors, genres and movements. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In French 1, 2, and 203c, the use of the Laboratory forms an integral part of the course. French majors find it valuable to supplement the work done at Bryn Mawr by study abroad either during the Junior Year or during the summer at the Institut in Avignon. Residence in French house for at least one year is advisable.

Requirements in the Major Subject: French 101, 201, 202 and one advanced literature course. Students whose preparation for college has included advanced work in language and literature may, with the consent of the Department, be admitted to French 201, and substitute an advanced course for French 101. Occasionally, students with exceptional preparation in French may be admitted to seminars in the Graduate School. Such arrangements are made at the suggestion of the Department.

Allied Subjects: Any other language or literature, European History, History of Art, Music, Philosophy.

1. Elementary French: Mr. Maurin, Mrs. Ginsberg.
   The speaking and understanding of French are emphasized, particularly during the first semester. The course, which meets five times a week, is the equivalent of two years of French in most courses in school.

2. Intermediate French: Members of the Department.
   The emphasis on speaking and understanding French is continued, texts from French literature are read, and short papers are written in French.

   The works read are chosen from various periods and genres, and include drama, poetry, novels and short stories. Oral expression and practice in writing are emphasized.

201. French Literature from the Chanson de Roland to 1800: Mr. Maurin, Miss Jones, Mrs. Ginsberg.

202. French Literature from 1800 to 1950: Mr. Guggenheim, Miss Jones.

203c. Advanced Training in the French Language: Miss Jones, Mr. Guggenheim.

301. French Lyric Poetry: Mrs. Ginsberg, Miss Jones.
   In the first semester special attention is given to the poetry of the sixteenth and early seventeenth centuries, and in the second, to the poetry of the last hundred years.
French Drama: Mrs. Ginsberg, Miss Jones.

Special study is made of the drama of the seventeenth and twentieth centuries.

The French Novel from 1700 to 1950: Mr. Maurin, Mr. Guggenheim.

French Essayists and Moralists: Mr. Guggenheim, Mr. Maurin.

Man and his world as interpreted by such writers as Montaigne, Pascal, Diderot, Gide, Camus and Sartre.

Junior Year Abroad: Students majoring in French may, by a joint recommendation of the Dean of the College and the Department of French, be allowed to spend their junior year in Paris under one of the junior year plans, organized by Sweet Briar College or Smith College.

Summer Study: Students wishing to enroll in a summer program may apply for admission to the Institut d'Études Françaises d'Avignon, which is held under the auspices of Bryn Mawr College. The Institut is designed for selected men and women undergraduates with a serious interest in French culture, most particularly for those who anticipate professional careers requiring a knowledge of the language and civilization of France. The curriculum includes general and advanced courses in French language, literature, history and art. The program is open to students of high academic achievement who have completed a course in French at the third-year college level, or the equivalent.

Final Examination: The Final Examination is in three parts:

1. An oral examination to test the student's command of the French language.
2. A three-hour written examination on a period of French literature.
3. A three-hour written examination on the development of a literary genre through French literature.

An examination in an allied subject may be substituted for one of the two written examinations.

Honors Work: On the recommendation of the Department, students in their senior year will be admitted to Honors work consisting of independent reading, conferences and a long paper.
Geology

PROFESSORS: Edward H. Watson, Ph.D.,
Lincoln Dryden, Ph.D.
Dorothy Wyckoff, Ph.D.

ASSISTANT PROFESSORS: Maria Luisa B. Crawford, Ph.D.
William A. Crawford, Ph.D.

ASSISTANTS: John D. Scott, B.S.
Phillips C. Thurston, M.A.

The Department seeks to make students more aware of the physical, natural world around them; to teach them how the present landscapes have been formed, and how modern plants and animals have evolved from earlier kinds. Physical processes like erosion, volcanic activity, and earthquakes form one large part of the subject; the history of the earth and the organisms which have peopled it form another. Geology borrows widely from its sister sciences, combining many disciplines into an attack on the problem of the earth itself. An essential part of any geologic training lies beyond the classroom, in field work.

Requirements in the Major Subject: Geology 101, 201, 202, one advanced course. In addition, at least one of the following first-year courses is normally required: Biology, Chemistry, or Physics. The sixth unit may be chosen in Geology or in an allied field approved by the Department.

Allied Subjects: Biology, Chemistry, Physics, Mathematics. Anthropology, Archaeology, Economics or Statistics may be accepted in special cases.

101a. Physical Geology: Mr. Watson and Members of the Department.

A study of the atmosphere, weathering, stream action, oceans, glaciers, earthquakes and volcanoes, and of the structures to which they give rise. Three lectures, four hours of laboratory or field work a week.

101b. Historical Geology: Mr. Dryden and Members of the Department.

The history of the earth from its beginning, and the evolution of the living forms which have populated it. Three lectures, four hours of laboratory or field work a week. A three-day field trip is taken in the spring.
201. Mineralogy: Mr. Watson, Mrs. Crawford.
    Crystallography, elementary crystal optics, descriptive and
determinative mineralogy, and elementary petrology and eco-
monic geology. Three lectures, six hours of laboratory a week.

202. Paleontology: Mr. Dryden.
    A systematic survey of animal groups in geologic time; in
addition, a study of the environment of fossil life, and theories
of evolution. Three lectures and three hours of laboratory a
week.

301. Structural and Field Geology: Mr. Watson.
    The origin and analysis of the structures of igneous, sedi-
mentary and metamorphic rocks, and geological surveying. Three
lectures, six hours of laboratory or field work a week.

302. Stratigraphy: Mr. Dryden.
    The origin and formation of sedimentary rocks; geologic
history of typical regions of the United States; elements of petro-
leum geology; and study of the Ice Age.

303. Optical Mineralogy (first semester) and Petrology (second
    semester): Miss Wyckoff, Mrs. Crawford.
    The optical properties of minerals and the use of the petro-
graphic microscope. Discussion of the origin and differentiation
of igneous rocks. Two lectures, about twelve hours of laboratory
a week. Credit: 1½ units.

305. Geography: Miss Wyckoff.
    Discussion of geographic factors such as climate, soils, vege-
tation, land forms and mineral resources. General principles of
economic and political geography. Three lectures, one afternoon
of laboratory a week.

Final Examination: This is in three parts:
1. An examination in General Geology.
2. An examination in some special field in Geology.
3. One of the following:
   a. An additional special examination in Geology
   b. A general examination in an allied field
   c. A written report on a piece of individual work

Honors Work: Honors work in any of the advanced fields is
offered to any student who has completed the first two years in
Geology with distinction.
    Certain graduate courses are open to properly trained under-
graduates.
The purpose of the major in German is to lay the foundation for an understanding and appreciation of German literature and civilization. To this end comprehension of the German language, of both the spoken and the printed word, is indispensable; all courses above German 1 are therefore given in German and progressive linguistic training is provided. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In German 1 and 102c the use of the Laboratory forms an integral part of the course. This work should be supplemented, whenever possible, by living in the German House, or by spending a summer in one of the summer schools of Germany, Austria or Switzerland; and/or by spending the junior year in Germany.

Requirements in the Major Subject: The normal course sequence for the major is German 101, 102c, 202, and at least one advanced course. Special consideration is given to students who have supplemented their linguistic training as outlined above.

Allied Subjects: Any language or literature, History, Political Science, Philosophy, Music, History of Art.

1. Elementary German (Speaking and Reading): Members of the Department.

The course, meeting five times a week, offers the foundation of the language with emphasis on the aural-oral method. Increased importance is given to reading as the course progresses.

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101. Readings in German Literature: Mrs. Bean, Mrs. Cambon.
   Introduction to the main periods of German literature. Interpretation of texts from the early period to the present.

102c. German Conversation and Composition: Mrs. Bean.
   Active use of the language in speaking and writing; discussion of topics; compositions; reports.

202a & b. The Age of Goethe: Mrs. Cambon.
   German literary movements in the period 1750-1830, with emphasis on the works of Lessing, Goethe, Schiller, and the Romantics.

[301. Introduction to Germanic Philology: Miss Dorian.]
   Brief introduction to the linguistic method. History of the language situation in the German-speaking world from the earliest records until the present day.

[302. German Language and Literature of the Middle Ages: Miss Dorian.]
   Introduction to the German language and culture of the Middle Ages. Reading of representative works such as Der arme Heinrich, Tristan and selections from Minnesang.

[303. The Classics of the Nineteenth Century: Mr. Schmidt.]
   A survey of German literary developments from the death of Goethe to Nietzsche and Hauptmann, with special emphasis on the great dramatists and lyric poets.

[304. Modern German Literature: Mr. Schmidt.]
   Close study of the works of several major writers, among them Thomas Mann, Franz Kafka, and Bertolt Brecht, within the context of modern Western literature. Oral reports.

34b. (Haverford College) Modern German Drama: Mr. Salamon.

35a. (Haverford College) The Literature of the Middle Ages, the Reformation and the Baroque: Mr. Pfund.

41a. (Haverford College) Thomas Mann: Mr. Cary.

42b. (Haverford College) Günter Grass and the Picaresque Tradition: Mr. Cary.

305a. The German "Novelle": Mr. Schmidt.
   Discussion of the evolution of this form, and close analysis of representative works.
[306. The German Drama: Mr. Schweitzer.]

Study of various dramatic forms. Emphasis on parallel European and modern developments.

307b. German Poetry: Mr. Schmidt.

Study of the work of major poets from a number of literary periods. Various critical approaches will be discussed and used.

Final Examination: The Final Examination is in three parts:

1. An oral examination on selected masterpieces of German literature.

2. An examination on the history of a literary form, or on the history of the German language, or on an allied subject.

3. An examination on a period of German literature, or on an allied subject, if none has been offered under 2.

Honors Work: On the recommendation of the Department, students in their senior year will be admitted to Honors work consisting of independent reading, conferences, and a long paper.

Greek

Professors: Richmond Lattimore, Ph.D., Litt.D.
Mabel Louise Lang, Ph.D., Chairman

Instructor: T. Leslie Shear, M.A.

The courses in language and literature are designed to acquaint the students with the various aspects of ancient Greek culture through a mastery of the Greek language and a comprehension of Greek mythology, religion and the other basic forms of expression through which that culture developed. The works of poets, philosophers and historians are studied both in their historical context and in relation to subsequent Western thought.

Requirements in the Major Subject: Greek 1, 101, 102c, 201 and 301.

Allied Subjects: Ancient History, Classical Archaeology, History of Art, any language, Philosophy.
1. **Elementary Greek**: Miss Lang.

Elements of grammar with prose composition and selected reading from ancient authors and the *New Testament* in the first semester; in the second semester, the *Apology* and *Crito* of Plato.

101. **Herodotus and Tragedy**: Miss Lang, Mr. Lattimore.

Prose composition is required.

102c. **Homer**: Mr. Shear.

201. **Plato, Thucydides and Tragedy**: Mr. Shear.

Prose composition is required.

301. **Hesiod, Lyric Poetry and Comedy**: Mr. Lattimore.

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203.* **Greek Literature in Translation**: Miss Lang, Mr. Lattimore.

The epic, lyric and dramatic poetry as well as the early prose works are examined and interpreted as expressions of Greek culture.

**FINAL EXAMINATION**: The Final Examination for students majoring in Greek consists of:

1. Sight Translation of Greek to English.
2. Two examinations from the following fields: Homer, Attic Tragedy, Lyric Poetry and Aristophanes, Fifth-Century Historians, Fourth-Century Attic Prose. A student may substitute for one of these, an examination in one of the Allied Subjects.

**HONORS WORK**: Honors may be taken either in conjunction with the advanced course or after its completion.
History

Professors:  
CAROLINE ROBBINS, Ph.D.  
ARTHUR P. DUDDEN, Ph.D.,  
*Acting Chairman*

Assistant Professors:  
CHARLES M. BRAND, Ph.D.  
MARY MAPLES DUNN, Ph.D.  
BARBARA M. LANE, Ph.D.  
ALAN SILVERA, Ph.D.

Visiting Lecturer:  
JOHN D. SPIELMAN, Ph.D.

Assistant:  
JOYCE LAVERTY, M.A.

Instructor in Greek  
and Latin:  
T. LESLIE SHEAR, M.A.

The chief aim of the History major is to give the student a sense of historical perspective and an insight into historical method. The development of ideas and institutions—political, social and economic—is stressed rather than the accumulation of data about particular events. At the same time a more intensive study of certain topics and periods is required of every student in order to train her in the use of documents and to enable her to evaluate different kinds of source material. Extensive reading is assigned in all courses to familiarize History majors with the best historical writing and, in every year course except History 101, critical or narrative essays are required.

Requirements in the Major Subject: In general, students are expected to offer four units of History and two units of allied work, the selection of courses depending upon the student's desire to specialize in Modern, Medieval or Ancient History. Students concentrating in Modern History must take some work in Ancient or Medieval History. History 301 is required of all students offering Modern History for the Final Examination; History 305, for all students offering Medieval History, or an equivalent approved by the Department.

Allied Work: Courses in Economics and Political Science are recommended for History majors. Courses in Philosophy, History

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of Art, Literature, Anthropology and Sociology are accepted as allied work if the subject matter is related to that of the History courses elected. For students specializing in Medieval and Ancient History, Greek, Latin and Archaeology are recommended.

101. **Medieval and Modern Europe:** Members of the Department.

The purpose of this course is to give a broad view of the development of European civilization from the fall of Rome to the present, as well as a deeper understanding of special problems in European history and historical interpretation, by means of investigation of a series of selected topics. In connection with these topics, which range from the general question “What is history?” to “Renaissance Florence: The Medici as patrons, politicians, and bankers” to “The Diplomacy of Imperialism: The Congress of Berlin,” intensive reading of sources, general discussion, and independent study is required.

Students planning to major in History should ordinarily take 205 (ancient) or 101: if both seem necessary, the Department should be consulted.

[201. **History of England to 1960:** Miss Robbins.]

The treatment is topical, although a general chronology is maintained. Prehistoric, Roman, Saxon, Norman and later English society, constitutional, economic and intellectual development are among the subjects studied. Ireland, Scotland and Wales receive special attention.

Semester I ends with discussion of the causes of the English Civil War, 1642; Semester II with changing social structure of twentieth-century Britain.

This course is open to all students. Given in alternate years.

202. **The Growth of the United States of America:** Mr. Dudden.

A study of American life in the nineteenth and twentieth centuries, the disruptions and the transformations from the original Republic.

[203. **Medieval Civilization:** Mr. Brand.]

Western European development from the fall of Rome to about 1350. Economic, institutional and intellectual developments in the major kingdoms of the West and the history of the Latin Church will be included. Given in alternate years.
204a. *Revolutionary Europe 1787-1830:* Mr. Silvera.

About one half of the semester is devoted to the French Revolution; the second half to the spread of revolutionary ideas and the idea of nationalism throughout Western Europe during the Napoleonic period. The course concludes with the Vienna settlement and the Congress system.

204b. *Europe and Its Expansion in the Nineteenth Century:* Mr. Silvera.

A survey of European developments, with particular emphasis on political and social history, from the age of Metternich through the age of Bismarck to the rise of imperialism. Among the topics considered are the effects of the Industrial Revolution, the Revolutions of 1848 and the growth of nationalism, the varieties of socialism and the diplomacy of imperialism.

205. *Ancient History:* Semester I, Mr. Shear;
               Semester II, Mr. Brand.

The first semester is devoted to study of the history of the ancient Near East and of Greece to the rise of Macedon; the second to the history of Rome and the Hellenistic world to the reign of Constantine I. The course demands essays, and reading of typical sources for each period.

43-44. (Haverford College) *History of Russia:* Mrs. Gerstein.

A study of Russian history from Kievan times to the early 1920s. The first semester will deal with the period up to the end of the eighteenth century. Political, social and economic aspects of Russian development will be included in the course.

207b. *Latin America: Colonies and Revolutions:* Mrs. Dunn.

Such topics as the Conquest, the transplanting of Spanish institutions and their modification in the New World, social structure, colonial economy, the Church in America, the character of revolutionary leadership, will be explored as a basis for understanding modern Latin America.

208. *Byzantine Empire:* Mr. Brand.

Political, institutional, and cultural history of the Byzantine (Later Roman) Empire from the reforms of Diocletian and conversion of Constantine to the capture of Constantinople in 1453. Contacts with Arabic, Turkish, Armenian, Slavic and West European peoples will be stressed.
[209a. *The Emergence and Decline of States in Europe and Asia in the Seventeenth and Eighteenth Centuries*: Miss Robbins.]

Among topics discussed will be: the decline of Spain, Poland, and the Mogul Empire; the ascendancy of France; the rise of Sweden, Russia, Prussia, the Manchu Dynasty; mercantilism and the commercial revolution; the structure of absolutism, mixed monarchy and federal governments; the development and rivalries of the French, English and Dutch East India Companies; religious controversies and movements, Jesuit, Jansenist, Deist, Mystic.

[210. *Topics in the History of the Modern Near East*: Mr. Silvera.]

A survey of the development of the Arab world and Turkey in the nineteenth and twentieth centuries with special emphasis on political and intellectual history and the social structure of the emerging Arab states. The legacy of Islam, the decline of the Ottoman Empire, the impact of the West and the rise of Arab nationalism are among the topics considered.

301. *Europe in the Twentieth Century*: Mrs. Lane.

The first semester reaches and includes the settlement after the first World War; the second, the events from 1919 to the present. The course deals not only with diplomatic events but special emphasis is placed on the internal developments in the European states and on their social structure.

303. *Recent History of the People of the United States*: Mr. Dudden.

Studies of social change and response since the late nineteenth century, with consideration of scientific and technological innovations and the problems peculiar to the construction of the history of the recent past. Topics will include religion, government, education, economics, and the main currents of thought and artistic expression. With permission, students may elect one semester only.

[304a. *English History: the Victorians*: Miss Robbins.]

Round table discussion each week of different aspects of the Victorian activity; parliamentary reform; the Chartists; early labor movements and utopian socialists; the Church and the Oxford Reformers, the Catholic revival, the sects and the free-
thinkers; Darwin and his critics; Pugin and the Gothic revival; the Great Exhibition and the popular taste; law reformers and Dickens; urban renewal in London and other cities; the Great Famine; Chamberlain and the late imperialists; prime ministers and foreign secretaries, Peel, Palmerston, Gladstone, Disraeli and Salisbury.

305. Renaissance and Reformation: Mrs. Lane.

The course is concerned with European History from the fourteenth to the sixteenth century. The first term deals with the Renaissance, the second with the Reformation. Emphasis will be placed not only on the political and social developments, but also on the intellectual history of the period. Given in alternate years.

306a. The Enlightenment: Mr. Spielman.

The intellectual history of the seventeenth and eighteenth centuries is studied in seminar discussions of selected books illustrating, amongst other things, the scientific revolution, the growth of skepticism, the traveler and the movement of ideas, morality and taste, optimism, the philosophic critics and analysts of government, law and international relations. Open only to upperclassmen.

306b. Great Historians: Mrs. Dunn.

Each week the work of one or two historians is read and discussed in relation to the historical and scholarly presuppositions of its age. Emphasis is laid on reading and analysis rather than on any attempted survey of historical literature. The course, however, pursues a roughly chronological order starting with the Greeks and ending with Spengler and Toynbee.


A study of the thirteen English colonies, directed toward the general problem of the interpretation of the American Revolution. Particular emphasis will be placed on social and intellectual developments, and on the historiography of the Revolution.

Final Examination: The Final Examination for students in History consists of three parts, two of which must deal with general European history. Unless special permission is given by the Department these two fields should form a sequence in medieval or in modern history. The fields offered are as follows:
History of Art

1. Ancient History to A.D. 378 (Special field)
2. History of Europe 378 to 1300
3. History of Europe 1300 to 1648
4. History of Europe 1648 to 1830
5. History of Europe 1830 to 1950
6. History of England (Special field)
7. History of the United States (Special field)
8. History of Russia (Special field)
9. The Near East (Special field)

The examinations in Ancient, English, Russian, Near Eastern and American history will be based on concentrated study of a special field selected by the Department to meet the needs of the senior class. With the consent of the departments concerned a student may write her third examination in a field of allied work.

Honors Work: Students admitted to this work meet the instructor regularly for the discussion of reading in a selected period. An essay based on source material must be presented before May 1. The award of the degree with Honors in History will depend on the character of this honors paper and on the candidate's performance in the final examination.

History of Art

Professor: Charles Mitchell, M.A., B.Litt.¹
Associate Professor: James E. Snyder, M.F.A., Ph.D., Acting Chairman
Visiting Lecturer: Stella Kramrisch, Ph.D.
Assistant Professors: Charles G. Dempsey, M.F.A., Ph.D.
Anne Coffin Hanson, Ph.D.
Instructor: John T. Paoletti, M.A.
Artist in Residence: Fritz Janschka
Assistant: Virginia M. Spate, M.A.

The history of art is studied as an historical discipline. The Department normally offers an introductory course and a series

¹. On sabbatical leave for the year, 1965-6.
of special courses. Workshop supervision is also offered by the Artist in Residence, for which there is no tuition fee and academic credit is not granted.

Requirements for the Undergraduate Major: A minimum of four full-year courses (or the equivalent) is required, consisting of the introductory course (normally) and three others. A 200 course may be modified to count as advanced at the discretion of the Department. It is advisable for anyone contemplating a major in the history of art to consult the Department as early as possible in her college career.

Allied Subjects: History, Latin, Greek, Modern Languages, Archaeology; others in consultation with the Department.

101. Introduction to Art History: Mrs. Hanson, Mr. Dempsey, Mr. Janschka.
   The course is designed as an introduction to the methods and scope of art history in the field of Western art from medieval to modern times. Studio work, two hours weekly, with Mr. Janschka is also required.

201. Medieval Art: Mr. Snyder.
   Selected topics and works from the fourth to the fourteenth century.

202. Renaissance Art: Mr. Paoletti.
   European Renaissance art from the fourteenth to the sixteenth century.

203. Baroque Art: Mr. Dempsey.
   European art from the late sixteenth to the early eighteenth century.

204. Modern Art: Mrs. Hanson.
   European art from the late eighteenth to the twentieth century.

205b. Indian Art from the Third Millenium B.C. to the Sixth Century A.D.: Miss Kramrisch.
   A course involving study of monuments and documents, including original objects in the Philadelphia Museum of Art. No previous study of Oriental art is required.
History of Religion

311a. Flemish Painting: Mr. Snyder.
   An advanced course on select problems of fifteenth century Flemish art, requiring a reading knowledge of French and German.

312a. Michelangelo: Mr. Paoletti.
   An advanced course on Michelangelo's major commissions and artistic development.

314b. Manet and Nineteenth Century Painting: Mrs. Hanson.
   An advanced course on special problems from 1830 to 1880, requiring a reading knowledge of French.

Comprehensive Conferences. Regular conferences with Senior Majors on their special subjects: Members of the Department.

Final Examination: The Final Examination for students in the History of Art consists of three parts of three hours each:
   1. An examination to test knowledge of works of art.
   2. A general examination on the history of art.
   3. An examination on a special field or topic.

Honors Work: Honors work is offered to students recommended by the Department.

History of Religion

Visiting Lecturer: Morton S. Enslin, Th.D., Chairman

Associate Professor of Philosophy: Jean A. Potter, Ph.D.¹

Instructor in Philosophy: Margaret Healy, M.A.

Courses in the History of Religion may be taken as electives or in connection with certain major fields as allied work.
No major is offered in the History of Religion.

103. Literary History of the Bible: Mr. Enslin.
   The history, literature and interpretation of the Bible, with special emphasis on analysis of text and literary forms.

201a.* History of Ancient Israel: Mr. Enslin.
The origins and development of Hebrew religion against its ancient Near Eastern background until the Christian era.

201b.* Christian Beginnings: Mr. Enslin.
A study of the emergence of the Christian movement, with special attention to the mission of Jesus and the foundation of the early church.

204a. Philosophy of Religion: Miss Potter.
The existence and nature of God and the character of religious language.
This course is also listed as Philosophy 204a.

205b. Biblical Ideas and Institutions: Mr. Enslin.
A study of the origin and development of significant ideas and institutions in the Bible.

304b. Thomas Aquinas: Miss Healy.
A systematic investigation of certain philosophical problems in the Summae and other works of Thomas Aquinas.
This course is also listed as Philosophy 304b.

Italian

Appointment to be announced.

Assistant Professor: Bernard Toscani, Ph.D.

The aims of the major are to acquire a knowledge of the Italian language and literature and an understanding of Italian culture and its contribution to Western civilization. Majors in Italian are urged to spend the Junior year in Italy or to study in approved summer schools in Italy or in the United States.

Requirements in the Major Subject: Italian 1, 101, 201, 202, and one other advanced course. For students who enter College with Italian, proper substitutions will be made.

Allied Subjects: Any other language or literature, History, History of Art, Philosophy, Music, Political Science; with departmental approval, any other field allied to the student's special interests. In all courses students are urged to use tapes available in the Language Laboratory.
1. **Italian Language**: Mr. Toscani.

A practical knowledge of the language is acquired through hearing, speaking, writing, and reading, going from concrete situations to the expression of abstract ideas and with a gradual introduction to the reading of Italian literature. The course meets five times a week.

101. **Intermediate Course in the Italian Language**: Mr. Toscani.

Readings from modern Italian authors and topics assigned for composition and discussion, conducted entirely in Italian.

[102c.* *Dante in English Translation.*]

The *New Life and Divine Comedy.*

[103c.* *Literature of the Italian Renaissance in English Translation.*]

From Petrarch to Tasso; pastoral literature; literary criticism and aesthetic theories of the Renaissance, with special reference to their influence on other literatures.

[201. *Classics in Italian Literature.*]

Reading and explanation of texts, with a study of literary history; conducted mostly in Italian.

[202. *Dante.*]

The *Vita Nuova and Divina Commedia,* with some attention to the minor works. With departmental approval, open to anyone who can read Italian.

[302c. *Advanced Course in the Italian Language.*]

Advanced work in composition.

303. **Italian Literature of the Rinascimento**: Instructor to be appointed.

[304. *Italian Literature of the Romantic Period.*]

**Junior Year Abroad**: Students approved by the Department and the Dean may be recommended for the Junior year in Florence under the auspices of the Smith College Group.

**Final Examination**: The Final Examination consists of three parts:

1. The Italian Language: ability to understand and speak the spoken idiom; ability to write the language.
2. Italian Literature and Literary History.
3. The study of a single genre or topic throughout Italian literature, or an examination on an allied subject.

For the second part, the emphasis may be placed on the Medieval, Renaissance, Romantic or Modern period.

Honors Work: After the completion of the second-year course a student may be recommended for Honors in Italian. The student works in a special field adapted to her own interest under the direction of the Department.

Latin

Professor: Agnes Kirsopp Michels, Ph.D., Chairman
Associate Professor: Myra L. Uhlfelder, Ph.D.
Assistant Professor: Russell T. Scott, Ph.D.
Instructors: T. Leslie Shear, M.A.
Francis J. Esterhill, Jr., M.A.

The major in Latin is planned to give the students familiarity, through careful reading in the original, with the most important works of Latin literature and an understanding of Roman civilization as revealed in literature. A further aim of the major is to give the students some sense of the importance of Roman literature in our tradition and of the contribution of Roman civilization to the modern world. Study of language and style is an essential part of the work, but only one course is entirely devoted to such study. Students are given an opportunity to choose whether they wish to work intensively on literary criticism or on problems dealing with Roman civilization.

Requirements in the Major Subject: Latin 101, 201 and either 301 or 302. Honors students are required to take Latin 203. Students who plan to teach Latin are advised to take this course.


1. Appointment to begin 1966-7.
1. *Elementary Latin*: Mr. Esterhill.

Basic grammar with composition and selected readings from Latin authors in the first semester. In the second semester selected readings from prose authors and from Vergil's *Aeneid*, with exercises in composition. Students who have had two years of Latin in school may enter the course in the second semester. Those who complete the course satisfactorily will be eligible to take Latin 101.


Selections from a play of Plautus, the poems of Catullus, and the *Elegques* of Vergil. Prerequisite: at least three years of Latin in school.

101b. Mr. Shear, Mr. Esterhill.

Selections from Livy's *History of Rome* and from Horace's *Odes*.

201a. *Horace and the Elegiac Poets*: Mr. Esterhill.

Reading from the *Satires* and *Epistles* of Horace, and from Tibullus, Propertius and Ovid, with special attention to the character of late Augustan literature.

201b. *Latin Literature of the Silver Age*: Mrs. Michels.

Reading from the works of the chief authors with special attention to the development of literary types during the period.

202c.* Medieval Latin Literature*: Miss Uhlfelder.

The reading includes selections from important writers from the late Roman Empire to the thirteenth century. This course may be taken either as a half or as a whole unit. Prerequisite: Latin 101, four units in school, or permission of instructor.

203. *Latin Style*: Mrs. Michels, Miss Uhlfelder, Mr. Shear.

Throughout the year half of the course concentrates on the style of Latin prose authors and the principles of ancient rhetoric, with exercises in composition, while the other half deals with the meters of Latin poetry, with practice in reading aloud. The course may be taken for a half unit's credit by omitting the study of meters.

[301a. *Vergil's Aeneid*: Mrs. Michels.]

[301b. *Tacitus and Livy*: Mr. Scott.]
302a. *Lucretius*: Mr. Esterhill.


**Final Examination**: The Final Examination for students majoring in Latin consists of three three-hour examinations in the following fields:

1. Latin Sight Translation.

2. An examination on one of the following subjects:
   a. Latin Literature of the Republic
   b. Latin Literature of the Empire
   c. Latin Literature of the Ciceronian and Augustan Age
   d. Roman History from the Sources (100 B.C. to 70 A.D.)

3. An examination on one of the following subjects:
   a. An allied subject (Students are advised if possible to take the third examination in Greek)
   b. A second subject from Group 2 (Choice must avoid duplication of material)
   c. The development in Latin literature of an important literary type
   d. An important period or type in Medieval Latin literature
   e. Roman rhetoric

**Honors Work**: Honors work either in classical or in medieval Latin is offered to qualified seniors. The subject will be determined by the interests of the student. The work is carried out under the direction of one member of the Department and the results are presented in a paper.
Mathematics

Professors: John C. Oxtoby, M.A., Chairman
Marguerite Lehr, Ph.D.

Associate Professor: Frederic Cunningham, Jr., Ph.D.¹
Assistant Professor: Ethan D. Bolker, Ph.D.

The major is designed to provide a balanced introduction to the subject, emphasizing its nature both as a deductive and as an applied science, at the same time providing the technical foundation for more advanced study. The courses in calculus are basic for all applications of mathematical analysis and for more advanced work in function theory. The courses in algebra and geometry introduce the student to some of the unifying ideas and postulational methods that are characteristic of much of modern mathematics.

Requirements in the Major Subject: Mathematics 101, 201, 202c, 301, 303a, and at least one other advanced half course.

Allied Subjects: Chemistry, Economics, Philosophy, Physics and Psychology.

101. Calculus, with Analytic Geometry: Mr. Oxtoby, Mr. Bolker.

Differentiation and integration of algebraic and elementary transcendental functions, with the necessary elements of analytic geometry and trigonometry. The interplay between mathematical ideas and applications is exploited.

103.* Topics in Modern Mathematics: Miss Lehr.

An elective course, reflecting the growing contemporary interest in (1) Boolean algebra, matrices, linear programming; and (2) probability distributions, combinatorial problems, and game theory. The biological and social sciences, and current computer methods, supply motivating situations, but the topics are selected to develop fundamental principles and concepts of mathematics, of interest independent of applications.

201. Second-Year Calculus: Mr. Oxtoby.

The definite and indefinite integral, infinite series, partial derivatives, multiple integrals, differential equations, with applications to geometry, physics and chemistry.

¹ On sabbatical leave for the year, 1965-6.
202c. **Solid Analytic Geometry and Algebra**: Miss Lehr.

Determinants, vectors, matrices, and selected topics from the Theory of Equations; linear algebra motivated by and applied to space geometry; classification and transformation of planes and quadric surfaces.

301. **Advanced Calculus**: Mr. Bolker.

The classical theory of real functions, based on Cantor's construction of the real number system; the Riemann integral, functions defined by power series, Fourier series, functions of several variables. Prerequisite: Mathematics 201.

[302b. **Introduction to Geometric Theories**: Miss Lehr.]

Analytic generalizations and group-theoretic classification, as related to postulational methods and the problem of introducing coordinates. Development motivated from the basic projective, Euclidean, and non-Euclidean space theories. Prerequisite: Mathematics 202c.

303a. **Introduction to Abstract Algebra**: Miss Lehr.

Permutations, linear transformations, abstract groups, rings, and fields; postulational characterization of number systems. Prerequisite: Mathematics 202c.

304b. **Theory of Probability with Applications**: Miss Lehr.

Probability in discrete sample spaces, stochastic independence, Laplace Limit Theorem, Poisson distribution, random walk, and recurrent events—with applications to physics and statistics.

[305b. **Topics in Differential Geometry**: Miss Lehr.]

310. **Theory of Functions of a Complex Variable**: Mr. Oxtoby.

Special functions, conformal mapping, the general theory according to Cauchy, singular points, Laurent series, series of partial fractions, infinite products, elliptic functions. Prerequisite: Mathematics 301.

[311b. **Differential Equations**: Mr. Cunningham.]

General methods, existence theorems, linear equations and Wronskians, oscillation and separation theorems, partial differential equations and boundary-value problems. Prerequisite: Mathematics 301 (may be taken concurrently).
[312a. Topology: Mr. Cunningham.]
Properties of topological spaces and continuous mappings. Prerequisite: Mathematics 301 or 303.

[312b. Topics in Topology: Mr. Cunningham.]
Prerequisite: Mathematics 312a.

Final Examination: The Final Examination consists of three parts: (a) an examination in analysis, (b) an examination in algebra and geometry, and (c) an examination in some particular branch of advanced analysis or geometry, or in an allied field.

Honors Work: Qualified students are admitted to Honors work on recommendation of the Department.

Music

Professor and Director of Chorus: ROBERT L. GOODALE, A.B., B.Mus., A.A.G.O., Chairman
Professor and Director of Ensemble Groups: AGI JAMBOR, M.A.
Visiting Lecturer: ARTHUR J. KOMAR, M.Mus., M.F.A.
Lecturer: ISABELLE CAZEAUX, Ph.D.
Assistant: SARAH BANKS SUTTON, A.B.
Director of Orchestra: WILLIAM H. REESE, Ph.D.

The purpose of the Music major is to enable the student to appreciate the significance of music from an historical and sociological as well as from an aesthetic point of view and to develop a technique of intelligent listening, a faculty of critical judgment and the ability to use the materials of music as a means of expression for creative talent.

Students in the courses in History and Appreciation of Music must devote two hours or more a week to listening to recordings.

Requirements in the Major Subject: Music 101, 102, and at least two and one-half units of additional work, the selection of courses depending upon the student's desire to specialize in the history and literature of music or the technique of composition. A student intending to major in Music must have sufficient
knowledge of pianoforte or organ playing to enable her to play music of the technical difficulty of a Bach figured chorale. She is strongly urged to be a member of the Chorus or the Orchestra and/or an Ensemble Group.

**ALLIED SUBJECTS:** History, History of Art, Modern Languages, English, Greek, Latin, Philosophy, History of Religion.

101. *An Introduction to the History and Appreciation of Music:* Miss Cazeaux, Mme. Jambor, Mr. Goodale.

A comprehensive survey, with special emphasis on the technique of intelligent listening.


A course in the elements of theory. The study of harmony and counterpoint, simple formal analysis and an introduction to orchestration.


An intensive study of nineteenth-century music. The Symphonic Poem, Art-Song and Music-Drama. Expansion of orchestral and pianoforte technique; development of symphonic and chamber-music forms; growth of nationalism. Prerequisite: Music 101 or its equivalent.

202. *Advanced Theory and Analysis:* Mr. Komar.

A continuation of Music 102, with emphasis on analysis (harmonic, contrapuntal and formal) of larger forms. Prerequisite: Music 102 or its equivalent.


Prerequisite: Music 101 or its equivalent.


Prerequisite: Music 101 or its equivalent.


Prerequisite: Music 101.

[301a. *Opera and Music Drama:* Miss Cazeaux.]

The evolution of opera from Gluck to Berg. Prerequisites: Music 101 and 102 or their equivalents.

[301b. *Music of the Twentieth Century:* Mr. Goodale.]

The continuing stream of romanticism in modern adaptations. Neo-classicism and Expressionism. Experimental new
phases in linear counterpoint, polyrhythms, polytonality and micro-tonality. Prerequisites: Music 101, 102 and 202 or their equivalents.

302a. Medieval and Early Renaissance Music: Miss Cazeaux.
   The rise of liturgical music in the early Christian Church. The development of polyphony in the tenth century, and the evolution of sacred and secular music up to 1450. Prerequisites: Music 101, 102 or their equivalents. Alternate with Music 301a.

302b. Late Renaissance and Baroque Music: Miss Cazeaux.
   The great periods of vocal counterpoint during the fifteenth and sixteenth centuries. The creation of new forms in the seventeenth century and the development of dramatic and instrumental music up to the time of Bach. Prerequisites: Music 101 and 102 or their equivalents. Alternate with Music 301b.

303a. Orchestration: Mr. Goodale.
   Prerequisites: Music 101, 102 and 202 or their equivalents. Music 202 may be taken concurrently with this course.

   Prerequisites: Music 101 and 102 or their equivalents.

305. Free Composition: Mr. Goodale.
   This course is designed for those students whose chief interest lies in the field of composition. It may be taken only with the permission of the instructor.

Honors Work: Honors work is offered for students recommended by the Department.

Final Examination: The Final Examination consists of three parts with three-hour examinations in each:
   1. The History of Music.
   3. Special field, which may be taken in an allied subject.

The following organizations, carrying no academic credit, are sponsored by the Department:

The College Chorus, a group of about 90 members. The Chorus participates in concerts with choruses from men's colleges and also takes part in college services. Major works for
women's chorus and mixed chorus are studied and performed. The Double Octet, selected from members of the Chorus, frequently sings at concerts and occasionally goes on trips as an independent unit.

*The Orchestra*, organized jointly with Haverford College. It plays concerts of its own, and frequently joins the Chorus in the presentation of major works.

*The Ensemble Groups*, also organized jointly with Haverford College. Students in these groups are afforded the opportunity of studying chamber-music literature at first hand, as well as the experience of playing in public at student recitals.

Lessons in pianoforte, organ and voice may be taken at the student's expense, with no academic credit. Lessons in other instruments may be arranged locally or in Philadelphia. The Department will be glad to assist in these arrangements.

### Philosophy

**Professors:**

- **Milton Charles Nahm, B.Litt., Ph.D.,** *Chairman*
- **José María Ferrater Mora, Lic.F.L.**
- **Hughes Leblanc, Ph.D.**
- **Isabel Scribner Stearns, Ph.D.**

**Associate Professors:**

- **George L. Kline, Ph.D.**
- **Jean A. Potter, Ph.D.**

**Lecturer:**

- **Kathryn Etchelis Pyne, Ph.D.**

**Instructor:**

- **Margaret Healy, M.A.**

**Assistants:**

- **Madolene Stone, M.A.**
- **Esen Ortac Traub, M.A.**

The major work is planned to acquaint the student with the historical and systematic interrelations of the significant philosophic concepts in Western thought, as well as to provide training in the techniques proper to the subject.

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The courses in Greek Philosophy and Modern Philosophy provide the major students with a common background, training and language. Further study offers not only historical information but insight into methodology and systematization, with training in the techniques of logic and theory of value. Metaphysics, aesthetics and the other advanced studies, besides their intrinsic importance, show the relations of philosophy to art, science, history, mathematics and religion.

The Department aims to provide training sufficiently broad in scope and technical in procedure to equip the student for analytical, critical and productive speculation.

Requirements in the Major Subject: Students majoring in Philosophy are required to take the first-year half-course in Greek Philosophy; the second-year half-courses in Modern Philosophy, Ethics, Logic and Kant; two second-year half-courses from among the following: Medieval Philosophy, Philosophy of Religion, Recent Metaphysics, Contemporary Philosophy: Existential, Contemporary Philosophy: Analytic; and one advanced (300 level) course. Under special circumstances and with the permission of the Department, students may take second-year courses for third-year credits.


101a. Greek Philosophy: Members of the Department.

A study of the origins and development of philosophic thought in Ancient Greece, with particular emphasis on the major works of Plato and Aristotle.

201b. Modern Philosophy: Members of the Department.

A study of the development of modern philosophic thought from Descartes to Kant.

202a. Kant: Mr. Kline.

A close examination of some central themes in the Critique of Pure Reason.

202b. Recent Metaphysics: Miss Stearns.

The metaphysics of Mead, Bergson, Whitehead and related thinkers.
203a. Logic: Mrs. Pyne.
   An introduction to modern logic.

203b. Ethics: Mr. Nahm.
   The theory and problems of various types of ethics, hedonist, utilitarian, rational and idealist, with particular emphasis upon the analysis of action and judgment, rightness and goodness, and obligation.

204a. Philosophy of Religion: Miss Potter.
   The existence and nature of God and the character of religious language.

[204b. Medieval Philosophy: Miss Potter.]

205b. Contemporary Philosophy: Analytic: Mr. Ferrater Mora.
   A study of the fundamental problems discussed by various analytic schools in the twentieth century, from Moore, Russell and Logical Positivism to the later Wittgenstein and the philosophy of ordinary language.

[206b. Contemporary Philosophy: Existential.]

[301a. Aesthetics: Mr. Nahm.]

302a. The Philosophy of Criticism: Mr. Nahm
   An examination of the philosophic bases of some types of criticism, ranging from descriptive to aesthetic.

303a. Plato: Miss Stearns.
   A detailed study of some of the later dialogues.

[303b. Hegel.]

[304a. Texts in Medieval Philosophy.]

304b. Thomas Aquinas: Miss Healy.
   A systematic investigation of certain philosophical problems in the Summae and other works of Thomas Aquinas.

305a. Philosophy of the Enlightenment: Mr. Ferrater Mora.
   A study of the main philosophical tendencies in the eighteenth century, with particular emphasis on the ideas and ideals of the philosophes.
305b. *Russian Philosophy*: Mr. Kline.

A critical survey of major trends in Russian thought, from the eighteenth century through the Soviet period, with special attention to ethics and social philosophy.


306b. *Descartes and Spinoza.*


A study, conducted in the light of contemporary writings, of the diverse functions served by language; of its ontological and conceptual presuppositions; and of its relationship to other symbolic media.

308b. *Philosophy of Mathematics and Natural Science.*

309b. *Theory of Knowledge.*

310b. *Philosophy of History.*

311b. *Aristotle.*

**Final Examination:** The Final Examination consists of three written examinations. Two of the examinations will be on a subject such as "causality," "the mind-body relation," "freedom," "time," "language," "existence," treated in its historical development from the Greeks to the present. The third examination will be on a field offered in any of the advanced courses taken by the student during her senior year, or in an allied subject.

**Honors Work:** Honors work consists of independent reading and conferences with the instructor, directed to the preparation of a paper on a subject dealing with the technical problems of philosophy or emphasizing the connection of philosophy with general literature, history, politics and science, or with some special field in which the student is working.
Physics

Professors: Walter C. Michels, Ph.D., Chairman
Rosalie C. Hoyt, Ph.D.
John R. Pruett, Ph.D.

Assistant Professor: W. Paul Ganley, Ph.D.

Assistants: Edward J. Gardner, M.S.
Robert Peckman, M.S.
David C. Scott, M.E.
William C. Sellyey, B.S.

The courses offered to students majoring in Physics emphasize the techniques that have led to our present state of understanding of the material universe rather than facts about the universe; they are designed to relate the individual parts of physics to the whole rather than to treat them as separate disciplines. In her progress from a general survey of the subject in her first-year course to the preparation for the final examination in the senior year, the student applies her growing grasp of experimental and logical techniques to increasingly independent studies of physical phenomena. No courses dealing specifically with atomic and nuclear physics or "modern" physics are offered—this material is incorporated in the appropriate courses and is given special attention during the senior year, as part of the preparation for the Final Examination in the major subject.

Requirements in the Major Subject: Physics 101 or 102, 201A and 202B, and at least one and one-half units of advanced work, to be chosen from 301 through 305; Chemistry 101; Mathematics 101 and 201. A third unit of Mathematics is strongly recommended. Students are encouraged to meet some of the major and allied requirements by advanced standing or placement examinations.

Allied Subjects: Biology, Chemistry, Geology, Mathematics, Philosophy, Psychology.

101. Introduction to Modern Physics: Mr. Ganley, Mr. Pruett.

A study of the principal phenomena of classical and modern physics in the light of the developments of the past sixty years. Three lectures and three hours of laboratory a week.
102. Introductory Chemistry and Physics.

See Interdepartmental Course 102, page 123.

201a. Electricity and Magnetism: Mr. Pruett.

Behavior of electric currents, elementary direct current and alternating current circuit theory, magnetic effects of currents, electrostatic phenomena, Maxwell's equations, applications to atomic phenomena. Three lectures and four hours of laboratory per week. Prerequisites: Physics 101 or 102, Mathematics 201 (may be taken concurrently).

202b. Optics: Mr. Ganley.

Geometrical optics, interference and diffraction phenomena, polarization, dispersion, and scattering studied from the point of view of electromagnetic radiation; spectra and the Bohr atom. Three lectures and four hours of laboratory per week. Prerequisites: Physics 201a, Mathematics 201 (may be taken concurrently).

301a. Classical Mechanics: Mr. Michels.

Newtonian mechanics of particles and of rigid bodies, consequences of special relativity theory, generalized mechanics, vibrations and waves, applications to atomic and nuclear phenomena. Three lectures and four hours laboratory per week. Prerequisites: Physics 201a, 202b, Mathematics 201.

303b. Thermal Properties of Matter: Mr. Michels.

The application of mechanics and probability concepts to systems of particles; the laws of classical thermodynamics and their connection with statistical models; equilibrium and transport problems; classical and quantum statistics. Three lectures and four hours laboratory per week. Prerequisites: Physics 301a, Mathematics 201.

304. Introduction to Theoretical Physics: Mr. Pruett.

Application of generalized mechanics to coupled systems and continuous media; introduction to wave mechanics; electric, magnetic, and electromagnetic fields. Emphasis is placed on boundary value problems. Mathematical methods are developed as needed. Four lectures a week. Prerequisites: Physics 201a, 201b, 301a and 302b (may be taken concurrently), Mathematics 201. Mathematics 301 or Chemistry 203 may be substituted for Physics 301a and 303b.
305c. *Physical Measurements:* Mr. Michels, Mr. Ganley.

Precision measurements of electromagnetic, optical and atomic phenomena. Four hours of laboratory a week. Prerequisites: Physics 301a and 303b (may be taken concurrently).

[351.* Application of Physics to Biology and Chemistry:* Miss Hoyt.]

The emphasis of this course is divided between the experimental techniques and the theoretical methods of physics. Examples of applications of these methods and techniques will be chosen to meet the major interests of the students. Three lectures and four hours of laboratory a week. Prerequisites: Physics 101 or 102, Mathematics 101 and second-year work in Chemistry or Biology.

**Final Examination:** The Final Examination for students majoring in Physics is in three parts:

1. Foundations of Physical Theory (required of all students).
2. Descriptive Physics. A student may substitute an approved examination in an allied field for this examination.
3. An examination in the special field of Atomic and Nuclear Physics (required of all students). The student will devote the equivalent of one semester of the preparation for the final examination in independent work and reading for this examination.

**Honors Work:** Honors work may be taken by seniors recommended by the Department. It consists of reading and experimental work on some problem of physics.
Political Science

The Caroline McCormick Slade Department of Political Science

Professors: Peter Bachrach, Ph.D., Chairman
Gertrude C. K. Leighton, A.B., LL.B.

Associate Professor: Melville T. Kennedy, Jr., Ph.D.
Assistant Professor: Charles E. Frye, Ph.D.
Visiting Lecturer: Richard A. Falk, J.S.D.
Lecturer: Alice F. Emerson, Ph.D.
Assistant: Lynne B. Iglitzin, M.A.

Dean of the College: Dorothy Nepper Marshall, Ph.D.

The major in Political Science is concerned with study of theories of government and with analysis of the structures and processes of modern political communities.

Requirements in the Major Subject: Students majoring in Political Science must take a minimum of four units in the major and two in allied work. At least one unit of major work must be taken in advanced courses. As a prerequisite to all other courses offered, majors must complete one unit of work chosen from among the following: 201a, 202a, 203a, 204b, 205a, 206b, 209b, 212b. Students who are not majors in the Department may meet this prerequisite in the same way, or alternatively by completing one half unit of allied work and one half unit in Political Science chosen from the list of courses above. For required fields in the major, see page 110 under Final Examination.

Non-majors wishing to take a field in preparation for the final examination in Political Science must consult the chairman in advance of taking courses in the special field. With the permission of the Department, courses at Haverford College, other than those listed below, may be taken for major or allied credit.

ALLIED SUBJECTS: Anthropology, Economics, Education, History, Philosophy, Psychology and Sociology. With the permission of the Department, certain courses offered by the modern language departments may be accepted as allied subjects.

201a. *American National Politics*: Mr. Bachrach, Mrs. Emerson.

An analysis of the political behavior of individuals and groups within the context of the legislative and administrative process will be emphasized. Theories relating to the governmental process in the United States will be incorporated within this analysis and recent studies in political sociology will be relied upon as background material.

[202a. *Western Political Theory: Ancient and Medieval*: Mr. Frye.]

A study of the development of theory: Greek, Roman and Christian, and medieval, concluding with a discussion of the problems of theory in the sixteenth century.

203a. *Government and Politics in East Asia*: Mr. Kennedy.

An approach to modern Asian politics (prior to 1950) through a study of the major philosophic and institutional features of dynastic China and areas under Chinese cultural influence. India and Japan are considered for comparative purposes.

204b. *Communism and Nationalism in Asia*: Mr. Kennedy.

A consideration of the central concepts in communism and nationalism and of their role in the sweeping changes Asia has experienced since World War II.

205a. *Government and Politics in Western Europe*: Britain, France and Scandinavia: Mr. Frye.

A comparative analysis of the contemporary political systems of Great Britain, France and Scandinavia, with special reference to factors making for stable and effective democracy.

[206b. *Values, Science and Politics*: Miss Leighton.]

Designed as a study of the discipline of political science, the course examines the philosophical, historical and scientific approaches to the political process. Illustrative problems are selected from the legal, international and comparative fields.
A detailed analysis of selected Supreme Court decisions on four or five leading topics.

A study of the fundamental problems of modern Western political thought, based on an analysis of the writings of the leading theorists.

See Interdepartmental Course 210b, page 123.

Analysis of certain fundamental economic and political problems in Latin America. Open to students who have had at least one year of Political Science (for prerequisites, see page 105) and Economics. Preference given to those with a reading knowledge of Spanish or Portuguese.
See Interdepartmental Course 211a, page 124.

212b. *Government and Politics in Western Europe: Germany, Italy and the Soviet Union*: Mr. Frye.
A comparative analysis of the political systems of Germany, Italy and the Soviet Union since 1918, with special reference to the causes and nature of totalitarianism and its impact upon a society.

215a. *Public Administration and Bureaucracy*: Mr. Diamant, Haverford College (Political Science 39).
A comparative study of administration and bureaucracy as central elements of modern society. Administrative structure and process and bureaucratic personnel in major contemporary political systems, e.g., U.S., U.S.S.R., Great Britain, France and India.

216b. *African Civilization*: Mr. Glickman, Haverford College (Social Science 38).
A study of political ideologies, systems and processes in new states. The impact of the West on traditional societies, the growth and effects of nationalism and the problems of stability and popular government are emphasized.
217b. **Policy, Parties, and Pressure Groups:** Mrs. Emerson.

A consideration of the impact of political parties and pressure groups on the formation of public policy in the United States.

218a. **Metropolitan Government:** Mr. Finney, Haverford College (Political Science 29).

Analysis of the forces affecting the structure of metropolitan regions. The functions and politics of government at the local and metropolitan levels. Intergovernmental relations. Current administrative problems, economic development, urban renewal and poverty. Field work in greater Philadelphia.

[301a. **Law and Society:** Miss Leighton.]

An introduction to the nature of legal obligation and its relation to selected social institutions. Typical legal problems pertaining to the family, property and government are discussed.

[302b. **Law, Policy and Personality:** Miss Leighton.]

Selected topics in the study of the relation between the legal process and personality development and structure. Attention is given, in the light of this perspective, to the policy implications of various legal doctrines pertaining to such subjects as divorce, child-rearing, criminal responsibility. Open to students who have taken any one of the following: Political Science 207a, 301a, 311a, or with permission of the instructor.

303a. **Problems in International Politics:** Mr. Kennedy.

A study of developments in international politics since World War II. Emphasis will be given to an analysis of the origins and development of the Cold War, to the role of the new states in world politics, and to the implications of the development and spread of nuclear weapons technology.

304b. **West European Integration:** Mr. Frye.

An analysis of postwar moves toward integration in Western Europe, with special emphasis upon the factors behind integration and upon the impact of integration upon member societies.

306b. **The Problem of Power in Contemporary Society:** Mr. Bachrach, Mr. Baratz (Department of Economics).

See Interdepartmental Course 306b, page 124.

[307a. **Modern Germany:** Mr. Frye.]
American Political Theory: Mrs. Emerson.

The development of American political ideas from the Revolution to the present, with some attention to the English and Colonial origins.

Selected Topics in Modern Political Thought: Mr. Frye.

A study of certain major political problems besetting modern societies in the light of the writings of recent democratic and non-democratic thinkers.

International Law: Miss Leighton.

An examination of the doctrines and practices of international law. Traditional material is considered in the context of the contemporary political process, with some emphasis on methodological problems.

China and Japan: 1840 to the Present: Mr. Kennedy.

The course focuses on internal responses to the Western impact as revealed in changing attitudes, revised values and new institutions; and on external policies and relations. Special attention to evidences of continuity and change and to comparison of political developments in the two countries.

Problems in Constitutional Law: Mr. Bachrach.

The specific topics of the course will be drawn from among the following: the historical, philosophical and constitutional development of freedom of speech in the United States; morals and law in the United States and England; the right to privacy; searches and seizures in theory and practice; the interstate commerce clause and the power of the states to regulate therein.

Methodology in Political Science: Mr. Frye.

An analysis of the philosophical problems behind different approaches to the study of politics and an examination of the research tools available to political scientists.

American Bureaucracy: Mr. Bachrach.

After a somewhat detailed analysis of Weber’s theory of bureaucracy, the course will be focused on the relation of democracy and bureaucracy, both public and private, in American society. The issue of the democratization of industry will be examined within the context of socialist and non-socialist democratic theory.
316b. *Law, Organization and Arms Control: Perspectives for a Minimum World Order*: Mr. Falk.

An analysis of the world political system. The functions and perspectives of law, organization and arms control will be examined with particular reference to the necessary conditions for a minimum world order.

**Final Examination**: The Final Examination consists of three examinations, the first of which is a general examination in Political Science and must be taken by all seniors majoring in the Department. The second and third examinations each cover a single specialized field, to be selected from the following (the course numbers indicate the courses falling within each field): Political Philosophy and Theory (202a, 206b, 209b, 306b, 308a, 309b, 314a); Politics and Law in American Society (201a, 207a, 217b, 218a, 301a, 302b, 313b, 315a); Comparative Politics (203a, 205a, 210b, 211a, 212b, 215a, 216b, 304b, 307a, 312b); International Politics and Law (204b, 303a, 311a, 316b). All students must complete at least one and one-half units in the special fields which they select. Students may, on consultation with the Department, elect to take one field in an allied subject. A conference for all seniors is held weekly.

**Honors Work**: Seniors admitted to Honors work prepare an independent research report (one unit of credit) under the supervision of a member of the Department. Weekly conferences are held. Field work is encouraged.
Psychology

Professors: Morton Edward Bitterman, Ph.D., Chairman
RACHEL DUNAWAY COX, Ph.D.

Associate Professors: Robert Simon Davidon, Ph.D.
RICHARD CHARLES GONZALEZ, Ph.D.

Assistant Professors: Anne Constantinople, A.B.
Earl Thomas, Ph.D.

Lecturers: Erika Rossman Behrend, M.A.
Cynthia Klinman, Ph.D.
Larry Stein, Ph.D.

Assistants: Ruth Barish, A.B.
David E. Bresler, A.B.

The Department offers to the major student a representative account of methods and findings in the principal areas of psychology. Problems of application are considered, and the relation of psychology to other natural and social sciences is emphasized. The major program prepares the student for graduate work.

Requirements in the Major Subject: Psychology 101; two of the following four courses: Psychology 201a, 203b, 205a, 301b; two of the following four courses: Psychology 202b, 302a, 303b, 304b; and one additional unit in Psychology. Psychology 204a is strongly recommended to students preparing for graduate work.

Allied Subjects: Anthropology, Biology, Economics, Education, Mathematics, Philosophy, Physics, Political Science, Sociology.

101. General Psychology: Mr. Gonzalez.
A survey of basic facts and principles: perception, motivation, emotion, learning, thinking and personality. Three hours of lecture and two hours of laboratory each week.

201a. Comparative Psychology: Mr. Bitterman.
The psychology of animals: instinctive activities, motivation, learning, the evolution of intelligence. Three hours of lecture and four hours of laboratory each week. Prerequisite: Psychology 101.

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Trait assessment and prediction; demonstration and evaluation of principal tests; scaling and test development; the structure of human abilities. Three hours of lecture and two hours of laboratory each week. Prerequisites: Psychology 101 and Psychology 204a or permission of instructor.

[203b. *Human Learning and Thinking*: Mr. Gonzalez.]

Verbal learning and retention; meaning and creative thought. Two hours of lecture and four hours of laboratory each week. Prerequisite: Psychology 201a.


Measurement, descriptive statistics, probability, association, testing of hypotheses, and the design of experiments. Three hours of lecture and two hours of laboratory each week. Prerequisite: Psychology 101.

205a. *Perception*: Mr. Davidon.

Differentiation and organization of the perceived environment, visual, auditory, and tactual-kinesthetic. Three hours of lecture and two hours of laboratory each week. Prerequisite: Psychology 101.

301b. *Physiological Psychology*: Mr. Thomas.

The physiological and anatomical bases of behavior. Three hours of lecture and three hours of laboratory each week. Prerequisite: Psychology 101.


Developmental, clinical and experimental evidence relating to the 'normal' personality. Supervised case-study. Prerequisite: Psychology 101.


The psychological study of man in society. Prerequisite: Psychology 101 or permission of the instructor.


Concepts of normality, types of abnormality, methods of investigation and principles of psychotherapy. Three hours of lecture each week and occasional trips to local hospitals for special lectures and demonstrations. Prerequisite: Psychology 101.
306a & b. *Advanced Experimental Psychology:* Members of the Department.

Specialized training in a selected area of investigation. May be taken in either semester or throughout the year. Prerequisite: Permission of the Department.

*Senior Conferences:* Members of the Department.

Weekly conferences, and for selected students, seminars on special topics in preparation for the Final Examination.

**Final Examination:** The Final Examination is in three parts:

1. General Psychology
2 & 3. Specialized examinations in two of the following fields:
   - Comparative Psychology
   - Human Learning and Thinking
   - Perception
   - Personality, Normal and Abnormal
   - Physiological Psychology
   - Psychological Testing
   - Social Psychology

With the approval of the Department an examination in an allied field may be substituted for one of the specialized examinations.

**Honors Work:** One unit of Honors work may be taken by students nominated by the Department. This unit may be substituted for one of the specialized examinations.
Russian

Professor: Frances de Graaff, Ph.D., Chairman
Assistant Professors: Irene Nagurski, Ph.D.
                     Ruth C. Pearce, Ph.D.
Associate Professor of Philosophy: George L. Kline, Ph.D.

The Russian major is designed to offer the students the opportunity to learn both to read and speak Russian and to achieve an understanding of the literature, thought and culture of both pre-revolutionary and contemporary Russia. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In Russian 1, 101, 202, the use of the Laboratory forms an integral part of the course.

Requirements in the Major Subject: Russian 1, 101, 200, 201 and one advanced course. Also Russian 203 or History 48-44 (History of Russia). If a student offers Russian for entrance, Russian 203 or History 48-44 may be substituted.

Allied Subjects: History 204b, 48-44 (strongly recommended), 301; Political Science 201a, 210; any language or literature, History of Art, Music, Philosophy.

1. Elementary Russian: Miss de Graaff, Mrs. Pearce.
   The basic grammar is learnt and enough vocabulary to enable the student to speak and understand simple Russian and to read simple texts.

101. Intermediate Russian: Mrs. Pearce, Miss Nagurski.
   Grammar review and composition. Introduction to the Russian literary language. Plays, novels, and some contemporary political material are read.

200. Advanced Training in the Russian Language:
     Miss Nagurski.

201. Readings in Russian Literature: Miss de Graaff.
   Representative writers of the nineteenth and twentieth centuries. Conducted mostly in Russian.
[202.* General Readings in Russian.]

Primarily intended for students who want a good reading knowledge of the language, but are not majoring in Russian. The reading texts cover a wide variety of subject matter, such as history, economics, politics, science, as well as literature. Some lectures in Russian about the cultural background of Russia are included, with oral reports and discussion of specific topics in Russian. Prerequisite: two years of Russian language.

203.* Russian Literature in Translation: Miss Nagurski.

The leading Russian writers of the nineteenth century in translation. Students registering for the course should read in the preceding summer the following novels: Dostoevsky's *Crime and Punishment*, Tolstoi's *War and Peace* and two of Turgenev's novels.

An advanced course, given in Russian, is selected each year from the following:

[301. Russian Poetry of the Nineteenth Century: Miss de Graaff.]
[302. Pushkin and His Time: Miss Nagurski.]
[303. Russian Literature of the Twentieth Century: Miss de Graaff.]
[304. Social Trends in Nineteenth-Century Russian Literature: Miss de Graaff.]

**Final Examination:** The Final Examination for students majoring in Russian consists of three parts:

1. The Russian language: ability to speak and understand the spoken idiom; ability to translate from the Russian.
2. A period of Russian literature.
3. A single topic of Russian literature or an allied subject. The Department is especially interested in allied subjects in the social sciences.

**Honors Work:** Honors work is offered to students recommended by the Department.
Sociology and Anthropology

Professor of Anthropology: Frederica de Laguna, Ph.D., Chairman
Professor of Sociology: Eugene V. Schneider, Ph.D.
Assistant Professor of Anthropology: Jane C. Goodale, Ph.D.
Visiting Lecturer in Sociology: Seymour Leventman, Ph.D.
Lecturer in Anthropology: Herbert L. Alexander, Jr., M.A.
Lecturer in Sociology: Martin Oppenheimer, Ph.D.

Professor of Social Work and Social Research: Bernard Ross, Ph.D.
At Haverford
Professors of Sociology: Ira de A. Reid, Ph.D.
Paul Hare, Ph.D.

The student may select one of two programs: (1) A major in Anthropology, (2) A major in Sociology.

Anthropology

The aim of the major is to introduce the student to an understanding of man and his works, evolution, the origin and development of culture, and the basic cultural patterns and social processes in diverse societies. The advanced courses explore special fields or areas, and also discuss theories about cultural processes and the nature of culture itself.

Requirements in the Major Subject: 101, 203a & b, 204 or 208a & b and a unit of advanced work.


Anthropology

101. Man, Culture and Society: Miss Goodale, Mr. Alexander, Miss de Laguna.

Man's place in nature and the development of his capacity for culture; the history of human culture to the rise of the early civilizations in the Old and New Worlds; forms of culture and society among primitive peoples.

203a. Primitive Society: Miss Goodale.

Social structures of preliterate peoples; their functions and the types of sanctions which control their members. Prerequisite: Anthropology 101.

203b. Primitive Culture: Miss Goodale.

Analysis of significant studies of culture in selected areas, illustrating problems in ethnography. Prerequisite: Anthropology 101.

204. American Archaeology: Mr. Alexander.

Introduction to the archaeology of the American Indians. Prerequisite: Anthropology 101 or 209b, or by permission of instructor.

206b.* Peasant Culture and Society: Mr. Alexander.

[208a. Human Evolution.]

Prerequisites: Anthropology 101, Biology 101 or Geology 101, or by permission of instructor.

[208b. Old World Prehistory.]


Contemporary hunting and gathering peoples in the old and new worlds; their adjustments to their natural environments; their relation to stone age cultures of the past, their contributions to and relations with modern civilized cultures.

[209b. The American Indian: Miss de Laguna.]

The Indians of Middle and North America as presented in such literary sources as reports of early explorers, anthropological novels, and native autobiographies, revealing ethos and cultural values.

301b. Cultural Theory: Miss de Laguna.

Analyses of the important classical and modern contributions. Prerequisite: Anthropology 203a, or by permission of instructor.
[303a. *Ethnological Problems in Oceania.*]  
Prerequisite: Anthropology 203a.

304a. *Culture and Personality:* Miss de Laguna.  
The relation of human nature to culture and its variations in different cultural settings. Prerequisite: Anthropology 101, or by permission of instructor.

**Final Examination:** The Final Examination for students majoring in Anthropology is in three parts:
1. General Anthropology.  
2. History and Theory.  
3. A special field or project in Anthropology, or an allied field.

**Honors Work:** Honors work is offered to students of marked ability, and will consist of independent reading, reports and conferences, and the preparation of a written report.

**Sociology**

The aim of the major in Sociology is to provide the student with a general understanding of the structure and functioning of modern society, its major institutions, groups, values, and of the interrelations of these with personality. Attention is also paid to the major stresses and strains of modern society, and the resultant social problems. Free elective work is offered to those who may be interested in applying their knowledge to the field of social work.

The work of this program is closely integrated with the work in Sociology offered at Haverford College. The student will note that one course is required at Haverford, and that other courses are open for the major work.

**Requirements for the Major Subject:** 102a & b, 21a (Haverford), 302a, and one further unit and a half of work to be chosen from courses offered at Bryn Mawr or courses above the introductory level at Haverford. In addition, the student is required to take one of the following courses: Anthropology 101, Economics 101, or Psychology 101, or a unit of Political Science.

**Allied Subjects:** Anthropology, Economics, Psychology, Political Science, Philosophy, History and Mathematics.
102a. Introduction to Sociology: Mr. Oppenheimer.

An analysis of the basic sociological perspectives, methods and concepts used in studying society. Attention will be paid to various forms of social organization; groups, crowds, publics, institutions, organizations. Examples will be drawn from several non-industrial societies.

102b. American Social Structure: Mr. Oppenheimer.

Analysis of the structure and dynamics of complex, industrial societies. Examples will be drawn from several societies, but major emphasis is on the United States.

202a.* History and Philosophy of Social Welfare: Mr. Ross.

American social welfare programs, their heritage and future trends; social work as an institution and profession.

207a. Race Relations: Mr. Leventman.

An analysis of relations between racial groups, and between other kinds of minority and majority groups in this and other countries.


An examination of various sociological approaches to the relationship of the individual and the group: influence of groups on personality, attitudes and values.

210b. Social Change: Mr. Oppenheimer.

An examination of the conditions which affect social and cultural change, and of the political consequences of such change. Emphasis will be on the concept of social movement (including case studies).

302a. Social Theory: Mr. Oppenheimer.

Analysis of the theoretical work of several classical and modern thinkers.

SOCIOLOGY AT HAVERFORD

21a. Social Research: Mr. Hare.

An analysis of classic and significant studies in the fields of social sciences with a view toward understanding the methods, tools, techniques and hypotheses of social research. Studies will
demonstrate the use of statistical, case, historical and other research procedures. Individual projects.


A study of the restrictive, expansive and eugenic aspects of national population policies as they are related in demographic theory. Special reference is given to the problems of fertility and mortality, density, immigration and food supply.

35. *Small Groups*: Mr. Hare.

An analysis of small groups in laboratory and field situations. Prerequisite: 21a or may be taken concurrently with 21a.

37a. *The Family*: Mr. Reid.

A study of the institutions designed to guarantee the perpetuation of the group and its cultural heritage in comparative societies. The course will analyze functions, forms and processes of the institutions of marriage and the family. Individual projects.

**Final Examination:** The Final Examination for students majoring in Sociology is in two parts:

1. General Sociology.

2. A special field in Sociology, such as Social Theory, Race Relations, Industrial Sociology, Social Disorganization. An allied field may be substituted for one of these.

**Honors Work:** Honors work is offered to selected students and will consist of independent reading and research, conferences and the preparation of a written report.
Spanish

Professor: Joaquín González Muela, D. en F.L.
Associate Professor: Willard Fahrenkamp King, Ph.D., Chairman
Assistant Professor: Phyllis Turnbull, D. en F.L.
Instructor: Eleanor Krane Paucker, Ph.D.

Dean of the College: Dorothy Nepper Marshall, Ph.D.
Professor of Philosophy: José María Ferrater Mora, Lic.F.L.

The major in Spanish includes work in both literature and language. It includes a two-year survey of Spanish literature, followed by more specialized advanced courses dealing with the literature of special periods, or with various literary forms. One course is devoted to training in written and spoken Spanish. Students are encouraged to supplement their course work by spending the Junior year in Spain or a summer in a Spanish-speaking country, or by living in the Spanish House. It is strongly advised that all students make use of the tapes available in the Language Laboratory. In Spanish 1 and 3 the use of the Laboratory forms an integral part of the course.

Requirements in the Major Subject: Spanish 101, 102 and at least two advanced courses. Students who spend the Junior year in Spain may substitute an advanced literature course for Spanish 202.

Allied Subjects: Any other language or literature, Economics, History, History of Art, Music, Philosophy, Political Science, and Sociology and Anthropology.

1. Elementary Spanish: Mrs. Paucker, Miss Turnbull.
   Grammar, composition, readings on the Spanish and Spanish-American background.

3. Intermediate Spanish: Mr. González Muela.
   Intensive grammar reviews and exercises in composition and conversation.

[101. Masterpieces of Spanish Literature (from 1700 to 1936): Mrs. King.]

A panoramic view of the development of Spanish literature during the eighteenth, nineteenth and twentieth centuries, emphasizing representative works of each period or literary school: Neoclassicism, Romanticism, Realism, etc.

102. Masterpieces of Spanish Literature (from the Poema del Cid to 1700): Mrs. King, Mrs. Paucker.

A survey of Medieval, Renaissance and Baroque literature, emphasizing the development of the various genres. Special attention is given to the Spanish Golden Age.

202. Spanish Readings and Composition: Mr. González Muela, Miss Turnbull.

Designed to aid the student in interpretation of texts, appreciation of stylistic differences, translation and original composition in Spanish. Assignments are adapted to the needs and level of achievement of the individual student.


Poetry and prose from the Modernista movement to the present.

203b. Spanish American Literature — The political and social revolution: Mrs. Paucker.

The development of the national ideal in the prose writers from Sarmiento to the present.

302a. Medieval Spanish Literature: Miss Turnbull.


The development of the Spanish narrative from the Generation of 1898 to the present.

303b. Modern Spanish Poetry: Mr. González Muela.

Spanish poetry from Modernismo to the present.

[304a. Drama of the Golden Age: Mrs. King.]

Representative works of Cervantes, Lope de Vega, Tirso de Molina, Calderón and other outstanding dramatists.
[304b. *The Age of Cervantes: Mrs. King.*]

The development of Cervantes' art in the drama, the short story, and the novel, with special attention to *Don Quixote.*

[305. *Prose Fiction of the Renaissance.*]

From *La Celestina* to *Don Quixote.*

**Final Examination:** The Final Examination is in three parts:

1. An oral examination in Spanish consisting of the explanation and interpretation of a Spanish text.
2. A three-hour written examination in Spanish on a period of Spanish literature.
3. A three-hour written examination on the development of a literary genre through Spanish literature.

An examination in an allied subject may be substituted for one of the two written examinations.

**Honors Work:** Honors work is offered to students recommended by the Department. This work consists of independent reading, conferences and a long paper.

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**Interdepartmental Courses**

The following courses are given by several departments in cooperation. The object is to cut across well-defined areas of knowledge and to show the relationships existing among them.

102. **Introductory Chemistry and Physics:** Miss Hoyt, Mr. Varimbi.

This course is intended to give an introduction in depth to our present knowledge of the physical world, and of its quantized, atomic and molecular structure, as well as of the processes by which this knowledge has been obtained. It will cover essentially all of the subject matter included in Chemistry 101 and Physics 101, and will serve as preparation for Chemistry 201a, Chemistry 202, and Physics 201a. One and one-half units. Five lectures and six hours of laboratory per week.

210b. (Economics 32, Haverford College) **The Soviet System:** Mr. Hunter.

An analysis of the structure and functioning of major Soviet economic, political and social institutions. Current arrangements
are studied as products of historical development. Present performance and prospects are evaluated. Prerequisites: Economics 101 or a unit of second-year work in Political Science; or History 101. (This course is also listed as Political Science 210b.)

211a. Latin American Polities and Economies: Mrs. Marshall, Mr. Baratz.

Detailed study of certain basic political and economic problems in Latin America. Open to students who have had at least one year of Political Science (for prerequisites, see page 105) and Economics. Preference given to those who have a reading knowledge of Spanish. (This course is also listed as Political Science 211a and Economics 211a.)

306b. The Problem of Power in Contemporary Society: Mr. Bachrach, Mr. Baratz.

A study of political power, with special reference to current controversies in the United States as to the nature and sources of power and with analysis of the implications for the democratic process. (This course is also listed as Political Science 306b.)

308. Applied Linguistics: Miss Dorian.

The theory and practice of modern descriptive linguistics in its relevance to the field of second-language learning. Analysis of the phonological and grammatical patterns of English contrasted to those of the second language.
To adjust to the revised curriculum introduced for the Class of 1969 and later classes, the Department of Physical Education has developed a program to:

1. Recognize the student with a high degree of neuromuscular coordination and physical stamina, and encourage her to maintain this status.

2. Provide incentive for students of lower levels of neuromuscular coordination and physical stamina to improve to a higher more recognized standard.

Through a combination of tests, some already used for several years, a student's physical education profile score (P.E.P.) can be determined. On the basis of this profile score the student will be advised to what extent she has satisfied the freshman (or sophomore) requirement. She may have no required activity her freshman year or she may have to fulfill the usual first-year requirement. In either case the student will be retested at the end of semester I of her freshman year and again at the beginning of her sophomore year.

Students of high-level profile scores are free to elect any activity offered by the Department, including those specialized units in Rhythms or Dance Orientation, Sports Orientation and Relaxation. Should a student in this level profile score not participate in activity, there are factors which will be sacrificed: regular activity, opportunity for social exchange, recreation, relaxation and the possible lowering of the profile score.

Students not in the high-level group will be advised of areas in which they need assistance, will be free to elect sports activities, and the choice of two of a three-unit course in movement education will be a required part of the program.

Areas contributing to a physical education profile to be determined by testing, using batteries of standardized tests and procedures, adapted to college women:
1. Swim test (for survival)

2. Aptitude and Achievement Battery (performance skill)
   a. Standing broad jump
   b. Sand bag throw
   c. Obstacle course

3. Fitness Battery (strength and endurance)
   a. Standing broad jump
   b. Sit-ups
   c. Push-ups
   d. Step-ups

4. Body weight control

All students must complete the freshman and sophomore requirements satisfactorily, and must pass the swimming test administered at the beginning of the year to every new student unless excused by the College Physician. Students unable to pass this test are expected to register for beginning swimming. All classes are open to election by upperclassmen. Transfer students will have their physical education requirement reviewed by the Director of the Department.

Seasonal offerings are:

**FALL:** archery, fencing, golf, hockey, modern dance, movement education, riding,* swimming, tennis, volleyball, and American Red Cross Senior Life Saving Course. **WINTER:** badminton, basketball, diving, exercise, fencing, folk dance, modern dance, movement education, skating,* swimming, volleyball, and American Red Cross Water Safety Instructor Training Course. **SPRING:** archery, golf, lacrosse, riding,* soccer, swimming, tennis and volleyball.

**Swimming Test:** Jump into deep end of pool (feet first entry), tread water one minute without use of hands, back float motionless two minutes, demonstrate two strokes while swimming lengths of pool for 10 minutes without stopping, resting, or touching bottom or sides of pool.

* Open only to Sophomores with permission of the Department.
Financial Aid

The scholarships listed on the following pages have been made available to able and deserving students through the generosity of alumnae and friends of the College. Many of them represent the income on endowed funds which in some cases is supplemented by an additional grant, usually taken from expendable gifts from alumnae and parents. A student may apply for aid in a specific amount, but not from a particular fund.

The awards made from some scholarship endowments are reported in specific amounts. In the case of other awards for which the specific amount is not reported, the stipend is set according to the needs of the student.

Three outstanding scholarship programs have recently been established by the National Merit Scholarship Corporation, the General Motors Corporation and the Procter and Gamble Fund. Awards for the General Motors Scholarship and the Procter and Gamble Scholarship are made by Bryn Mawr College. The Ford Company has a scholarship program for the children of its employees as do other large corporations. In addition to the generous awards made by these companies there are many others made by foundations and by industrial and professional groups. Some of these are regional in designation. Students are urged to consult their schools and community agencies for information in regard to such opportunities.

Financial aid is held each year by thirty-five per cent of the undergraduate students. The value of the scholarships ranges widely, but the average grant is approximately $1150. Requests for financial aid are reviewed by the Scholarship Committee and judged on the basis of the student’s academic promise and achievement on the one hand, and, on the other, her financial situation and that of her family. Bryn Mawr College participates in the College Scholarship Service of the College Entrance Examination Board. Participants in the Service subscribe to the principle that the amount of aid granted a student should be based upon financial need. The Service assists colleges and other agencies in determining the student’s need for financial assistance. All applicants must submit in support of application for financial aid the form entitled Parents’ Confidential Statement which is prepared by the Service. When the total amount of aid needed has been determined, awards are made in the form of loans and scholarships. All students who are granted a scholarship in the
award of the College or the alumnae clubs will be required to borrow the first $200 of their total financial aid from one of the loan funds (see page 148). Students receiving assistance generally plan to earn money by part-time work during the college year and by summer positions. Employment opportunities are described on page 147.

Scholarships are available both to entering students and to those who have completed one or more years of study in the College. Students entering on transfer from other colleges in the United States are eligible for scholarships only after the completion of one year of study at Bryn Mawr.

APPLICATIONS FOR FINANCIAL AID AVAILABLE AT ENTRANCE

Application forms for Financial Aid for the freshman year may be obtained from the Director of Admissions, Taylor Hall, Bryn Mawr College, Bryn Mawr, Pennsylvania. Each candidate for aid must also file with the College Scholarship Service, Box 176, Princeton, New Jersey, a form entitled Parents' Confidential Statement in Support of Application for Financial Aid. These two forms must be filed with the College and with the College Scholarship Service no later than January 10 of the student's final year in high school in the case of regular applicants, and no later than October 10 in the case of applicants under the Early Decision Plan.

The fact that a student has applied for financial assistance is not taken into consideration in evaluating the candidate's application for admission to the College.

Since scholarship funds of the College are not sufficient to cover the needs of the many well-qualified applicants, students are urged to consult their school counselors about national and local scholarships which may be available.

UNDERGRADUATE SCHOLARSHIPS

The renewal like the award of scholarships depends on the student's maintaining a good record. Application for the renewal of scholarships must be made annually. The necessary forms may be obtained in the Office of the Dean. Completed applications must be returned to the Scholarship Office of the College by January 3. A new financial statement completed by the applicant's family is required each year. Letters of support are requested from members of the faculty familiar with the student's academic work.
Financial Aid

Scholarship Funds

Alumnae Regional Scholarships are available to students in all parts of the United States and Canada. These scholarships, raised by alumnae, vary in amount but may cover full tuition for four years. The awards are made by local alumnae committees and are announced to the candidates immediately after their notification of admission to the College. Holders of these scholarships who maintain a high standard of academic work and conduct, and who continue to need financial aid after the freshman year, are assured assistance either from alumnae committees in their districts or from the College. (1922)

The Evangeline Walker Andrews May Day Scholarship was established by bequest of Evangeline Walker Andrews of the Class of 1893. The income from this fund of $10,000 is to be used for undergraduate scholarships in the Department of English. Mrs. Andrews originated the Bryn Mawr May Day which was first held in 1900. (1963)

The Mabel Pierce Ashley Scholarship Fund was founded by bequest of Mabel Pierce Ashley of the Class of 1910. The income from the fund of $25,000 is to be awarded as a scholarship or scholarships to undergraduate students majoring in History or English. (1963)

The Elizabeth Congdon Barron Scholarship Fund. In 1960, by Mrs. Barron's bequest of $2,500, the Elizabeth Congdon Barron Fund was established “for the general purposes of the College.” Through gifts from her husband, Alexander J. Barron, the fund was increased to $25,000 and the Elizabeth Congdon Barron Scholarship Fund was established. Through further gifts from Mr. Barron, the endowment has been raised to $37,156. (1964)

The Elizabeth P. Bigelow Memorial Scholarship Fund was established by gifts now amounting to $50,209 from Mrs. Henry B. Bigelow in memory of her daughter Elizabeth P. Bigelow, who was graduated cum laude in 1930. (1960)

The Book Shop Scholarships are awarded annually from the profits of the Bryn Mawr College Book Shop and from the income from the Book Shop Fund, which now amounts to $25,855. (1947)

Note: The dates in parentheses in the listings on this and the following pages indicate the year the scholarship was established.
The Bryn Mawr School Scholarship, instituted by the Board of Managers of the Bryn Mawr School of Baltimore, Maryland, has been offered annually since the College opened in 1885 to the graduate of the Bryn Mawr School who has completed the school course with the greatest distinction and who plans to enter Bryn Mawr College.

The Mariam Coffin Canaday Scholarship Fund was established by a gift of $18,866 from the Ward M. and Mariam C. Canaday Educational and Charitable Trust. The income from this fund is to be capitalized until the fund reaches the amount of $25,000. Scholarships are then to be awarded from the income, with preference given to students from metropolitan Toledo, Ohio. (1962)

The Antoinette Cannon Memorial Scholarship Fund was established by a gift of $30,400 by Janet Thornton of the Class of 1905 in memory of her friend Antoinette Cannon of the Class of 1907. (1963)

The Jeannette Peabody Cannon Memorial Scholarship Fund, now totalling $134,416, was established in memory of Jeannette Peabody Cannon, Class of 1919, through the efforts of the New England Alumnae Regional Scholarship Committee, of which she was a member for twenty years. The scholarship is awarded every three years on the nomination of the Alumnae Scholarship Committee to a promising member of the freshman class, residing in New England, who needs financial assistance. The scholarship may be held during the remaining three years of her college course provided a high standard is maintained. In 1962, the fund was increased from $7,405 to $13,416 by a generous gift from Mrs. Donald Wing of New Haven. (1949)

The Susan Shober Carey Award was founded in memory of Susan Shober Carey by gifts now totalling $3,300 from the Class of 1925 and is awarded annually by the President. (1931)

The Florence and Dorothy Child Memorial Scholarship of Bryn Mawr College was founded by bequest of Florence C. Child of the Class of 1905. The income from this fund of $115,494 is to be used for the residence fees of one or more students who without such assistance would be unable to live in the halls. Preference is to be given to graduates of the Agnes Irwin School and to members of the Society of Friends. If no suitable applicants are available in these two groups, the scholarship aid will then be assigned by the College to students who could not live
Financial Aid

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in residence without such assistance and who are not holding other scholarships. (1957)

The Jacob Orie and Elizabeth S. M. Clarke Memorial Scholarship was established by bequest of $5,000 from the estate of Elizabeth Clarke and is awarded annually to a student born in the United States or any of its territories. (1948)

The Class of 1903 Scholarship Fund was established by gift of $12,295 on the occasion of the fiftieth reunion of the Class. The income from this fund is to be awarded annually to a member of the freshman, sophomore or junior class for use in the sophomore, junior or senior years. (1953)

The Julia Cope Collins Scholarship was established by bequest of $10,000 from the estate of Julia Cope Collins, Class of 1889. (1959)

The Alice Perkins Coville Scholarship Fund, now totalling $76,587, was established by Agnes Frances Perkins of the Class of 1898 in honor of her sister, Alice Perkins Coville. The income from this scholarship fund is used to aid a deserving student in need of financial assistance. (1948)

The Regina Katharine Crandall Scholarship was established by a group of her students as a tribute to Regina Katharine Crandall, Margaret Kingsland Haskell Professor of English Composition from 1918 to 1933. The income from this fund, which now amounts to $10,225, is awarded on the recommendation of a committee composed of the Dean of the College, a representative of the English Department, and a representative of another department chosen by the Dean, to a sophomore, junior or senior who in her written English has shown ability and promise and who needs assistance to continue her college work. (1950)

The Annie Lawrie Fabens Crozier Scholarship Fund was established by a gift of $31,656 from Mr. and Mrs. Abbott P. Usher in memory of Mrs. Usher's daughter, Annie Lawrie Fabens Crozier of the Class of 1951, who died only a few years after her graduation from Bryn Mawr. The scholarship, in varying amounts up to full tuition, is to be awarded to a junior or senior of distinction who is majoring in English. (1960)

The E. Merrick Dodd and Winifred H. Dodd Scholarship Fund of $2,000 was established by bequest of Dr. and Mrs. Dodd. (1953)
The Abby Slade Brayton Durfee Scholarship Fund, which now amounts to $11,000 was founded in honor of his wife by bequest of Randall Nelson Durfee and increased by Mrs. Durfee and by Randall N. Durfee, Jr. and Mrs. Charles B. Brown of the Class of 1930. Preference in awarding it is given to candidates of English or American descent and to descendants of the Class of 1894. (1924)

The Charles E. Ellis Scholarship, value $700, tenable for four years, was founded by bequest of the late Charles E. Ellis. It is awarded on the recommendation of the Superintendent of Public Schools of the City of Philadelphia, subject to the approval of the Board of Directors of Bryn Mawr College, to a student educated in the Philadelphia public schools. (1909)

The Anne Long Flanagan Scholarship was established by a gift of $29,687 from Anne Long Flanagan of the Class of 1906 on the occasion of the 55th reunion of the class. The income on this fund is to be used to provide scholarships for Protestant students. (1961)

The Cora B. Fohs and F. Julius Fohs Perpetual Scholarship Fund was established by a gift of $75,000 from the Fohs Foundation. The income only is to be used. (1965)

The Foundation Scholarships, varying in amount up to full tuition and tenable for four years, are made available by the Trustees of Bryn Mawr College. They are awarded to members of the Society of Friends who cannot meet the full expenses of tuition and residence. (1894)

The William Franklin Scholarship Fund was established by a bequest of $35,985 from Susan B. Franklin of the Class of 1889. The income from this fund is to be used for scholarships for deserving girls, preference being given whenever possible to girls from the Rogers High School, Newport, Rhode Island. (1957)

The Edgar M. Funkhouser Memorial Scholarship Fund of $30,000 was established from his estate by Anne Funkhouser Francis of the Class of 1933. Awards may vary in amount up to full tuition and be tenable for four years. Income from this fund may be awarded annually, first preference being given to residents of southwest Virginia; thereafter to students from District III eligible for aid in any undergraduate year. (1964)

The General Motors Scholarship "makes it possible for students of ability but limited resources to complete their education and
thus realize their potentialities to the fullest." In addition, the
corporation makes available to private colleges unrestricted
grants-in-aid toward that part of the costs of education not
covered by the student's tuition. The award, tenable for four
years, may be as high as $2,000 a year, depending upon demon-
strated need. The award is made "on the basis of secondary
school records and reports, as well as extra-curricular activities
and leadership characteristics." The selection is made by Bryn
Mawr College. (1963)

The Anna Hallowell Memorial Scholarship was founded in
memory of Anna Hallowell by her family. The income on a
fund of $2,585 is awarded annually to the junior in need of aid
who has the highest academic record. (1912)

The Katharine Hepburn Scholarship, value $1,000, given
for the year 1965-6, is awarded in honor of Katharine Hepburn
to a student interested in the study of drama and motion picture,
and in the cultivation of English diction and of literary appreci-
cation. (1952)

The Katharine Houghton Hepburn Memorial Scholarship was
given in memory of Katharine Houghton Hepburn of the Class
of 1900. The income on this fund, now totalling $6,055, is awarded for
the junior or senior year to a student who has demonstrated both ability in her chosen field and independence
of mind and spirit. (1957)

The Jeanne Crawford Hislop Memorial Scholarship Fund of
$5,000 was given in memory of Jeanne Crawford Hislop of the Class of 1940 by Mr. and Mrs. John H. Hislop and Mrs. Frederic
W. Crawford. The income from this fund has been supplemented
by gifts from Mrs. John H. Hislop. This scholarship, awarded
to a junior, may be renewed for the senior year. (1939)

The George Bates Hopkins Memorial Scholarships were
founded by a gift of $10,056 from Mrs. Elizabeth Hopkins John-
son in memory of her father. Preference is given to students of
Music and, in default of these, to students majoring in History,
and thereafter to students in other departments. (1921)

The Maria Hopper Scholarships, two in number, were founded
by bequest under the will of Maria Hopper of Philadelphia and
are awarded annually. The income from this fund of $10,224
is used for aid to a sophomore. (1901)
The Leila Houghteling Memorial Scholarship Fund in the amount of $10,180 was founded in memory of Leila Houghteling of the Class of 1911 by members of her family and a group of her contemporaries. It is awarded every three years on the nomination of the Alumnae Scholarships and Loan Fund Committee to a member of the freshman class in need of financial assistance and is held during the remaining three years of her college course. (1929)

Huguenot Society of America Grant. On the recommendation of the College a student of Huguenot ancestry may be nominated for a grant up to $1,000 to be used for college expenses. (1962)

The Evelyn Hunt Scholarships, two in number, were founded in memory of Evelyn Hunt by bequest of $10,000 under the will of Evelyn Ramsey Hunt of the Class of 1898. (1931)

The Priscilla Hunt Scholarship was given in memory of Priscilla Hunt of the Class of 1950 by her mother and father, Ruth Van Natta Hunt and Leigh L. Hunt. The scholarship, awarded first in 1955-6 in the amount of $1,000 and tenable for four years, will be awarded to a candidate from certain counties in the state of Indiana. (1955)

The Lillia Babbitt Hyde Scholarship Fund was established by gifts of $25,600 from the Lillia Babbitt Hyde Foundation to establish the Lillia Babbitt Hyde Scholarship for students whose major subject will lead to a medical education or a scientific education in chemistry, as far as possible. (1963)

The Jane Lilley Ireson Scholarship was established by a bequest of $246,776 under the will of Jennie E. Ireson, her daughter. The income on each $5,000 of this fund is to be awarded as a scholarship to a worthy student who may require financial assistance. (1959)

The Alice Day Jackson Scholarship Fund of $10,195 was given by the late Percy Jackson in memory of his wife, Alice Day Jackson. The income from this fund is awarded annually to an entering student. (1930)

The Minnie Murdoch Kendrick Memorial Scholarship, tenable for four years, was founded by bequest under the will of George W. Kendrick, Jr., in memory of his wife. The income on this fund of $5,362 is awarded every four years to a candidate nominated by the Alumnae Association of the Philadelphia High School for Girls. (1916)
Financial Aid

The Misses Kirk Scholarship Fund, now amounting to $1,401, was founded in honor of the Misses Kirk by the Alumnae Association of the Kirk School in Bryn Mawr. (1929)

The Elizabeth B. Kirkbride Scholarship Fund was established by a gift of $1,150 from Elizabeth B. Kirkbride of the Class of 1896. The income is to be used for undergraduate scholarships. (1964)

The Clara Bertram Little Memorial Scholarship was founded by Eleanor Little Aldrich, in memory of her mother. The income from a fund now totalling $11,000 is awarded to an entering student from New England selected by the President on the basis of merit and financial need. (1947)

The Mary Anna Longstreth Memorial Scholarship, established by a gift of $5,000 and carrying free tuition, was given in memory of Mary Anna Longstreth by alumnae and children of alumnae of the Mary Anna Longstreth School and by a few of her friends. (1913)

The Lorenz-Showers Scholarship Fund now amounting to $5,000 was established by Justina Lorenz Showers of Dayton, Ohio, of the Class of 1907, in honor of her parents, Edmund S. Lorenz and Florence K. Lorenz, and of her husband, John Balmer Showers. (1943)

The Gertrude Howard McCormick Scholarship Fund was established by gift of $25,000 by the late Gertrude Howard McCormick. The scholarship, value $1,000, is awarded to a student of excellent standing, preferably for her freshman year. If she maintains excellent work in college, she may continue to receive scholarship aid through her sophomore, junior and senior years. (1950)

The Constance Lewis and Martha Rockwell Moorhouse 1904 Memorial Scholarship Fund, now amounting to $17,930, was established by the Class of 1904 in memory of Constance Lewis and Martha Rockwell Moorhouse of the Class of 1904. (1920)

The Evelyn Flower Morris Cope and Jacqueline Pascal Morris Evans Scholarship Fund, amounting to $12,000, was established by members of their families in memory of Evelyn Flower Morris of the Class of 1903 and Jacqueline Pascal Morris of the Class of 1908. (1959)
The Jean Brunn Mungall 1944 Memorial Fund, now amounting to $8,468, was established by the Class of 1944. The income is to be used for scholarships. (1955)

The Mary McLean and Ellen A. Murter Memorial Fund, now amounting to $14,320, was founded in memory of her two aunts by bequest of Mary E. Stevens of Germantown, Philadelphia. By vote of the Board of Directors the income is used for an annual scholarship. (1933)

The Frank L. Neall and Mina W. Neall Scholarship Fund was established by a bequest of $25,000 from the Estate of Adelaide W. Neall of the Class of 1906 in memory of her parents. The income is to be used for scholarship purposes at the discretion of the Trustees of the College. (1957)

The Mary Frances Nunns Scholarship was established by a bequest of $25,275 under the will of Mary Frances Nunns. The income only is to be used. (1960)

The Florence Morse Palmer Scholarship was founded in memory of Florence Morse Palmer by her daughter, Jean T. Palmer of the Class of 1924, by gifts now totalling $10,000. (1954)

The Margaret Tyler Paul Scholarship was established by a 40th Reunion gift of $30,000 from the Class of 1922. (1963)

The Fanny R. S. Peabody Scholarship Fund was established by bequest of $177,927 in the will of Fanny R. S. Peabody. Until the autumn of 1964, the income from this fund was used to support the Seven College Conference Scholarships. With the reorganization of the latter program, the income from the Peabody Fund will be awarded to students from the western states. (1943)

The Delia Avery Perkins Scholarship was established by bequest of $58,474 from Delia Avery Perkins of the Class of 1900. Mrs. Perkins was Chairman of the New Jersey Scholarship Committee for a number of years. The income on this fund is to be awarded to students entering from Northern New Jersey. (1965)

The Philadelphia Board of Public Education Scholarships, tenable for four years, are awarded to graduates of Philadelphia high schools nominated by the Board of Public Education of Philadelphia. (1898)
Financial Aid

The Louise Hyman Pollak Scholarship was founded by the Board of Trustees from a bequest of $5,061 by Louise Hyman Pollak of the Class of 1908. The income from this fund now totalling $6,666, which has been supplemented by gifts from the late Julian A. Pollak, and his son, David Pollak, is awarded annually to an entering student from one of the central states, east of the Mississippi River. Preference is given to residents of Cincinnati. (1932)

The Anna M. Powers Memorial Scholarship was founded in memory of Anna M. Powers by a gift from her daughter, Mrs. J. Campbell Harris. The income on this fund of $5,542 is awarded annually to a senior. (1902)

The Thomas H. Powers Memorial Scholarship was founded in memory of Thomas H. Powers by bequest under the will of his daughter, Mrs. J. Campbell Harris. The income on this fund of $4,598 is awarded annually to a senior. (1902)

The Anna and Ethel Powers Memorial Scholarship was established by a gift of $1,000 in memory of Anna Powers of the Class of 1890 by her sister, Mrs. Charles Merrill Hough. The fund is now re-established at $9,617 in memory of both Anna Powers and her sister, Mrs. Hough (Ethel Powers), by Mrs. E. Baldwin Smith (Nancy Hough). (1919, 1958-63)

The Procter and Gamble Scholarship provides an amount up to full tuition and fees, and an allowance for books. The scholarship may be renewed annually throughout the four years on the basis of successful undergraduate performance and continuing financial need. This scholarship program was established by the Procter and Gamble Fund "in recognition of the responsibility assumed by private women's colleges in graduating capable, well-informed women." The award is made by Bryn Mawr College. (1955)

The James E. Rhoads Memorial Junior Scholarship was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958 and 1959, the Alumnae Association increased the fund to $27,010, the income from which is awarded annually to a student who has attended Bryn Mawr College for at least three semesters, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. (1898)
The James E. Rhoads Memorial Sophomore Scholarship was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958 and 1959, the Alumnae Association increased the fund to $27,010, the income from which is awarded annually to a student who has attended Bryn Mawr College for at least one semester, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. (1898)

The Amelia Richards Scholarship was founded in memory of Amelia Richards of the Class of 1918 by bequest of $11,033 under the will of her mother, Mrs. Frank P. Wilson. It is awarded annually by the Trustees on the nomination of the President. (1921)

The Maximilian and Reba E. Richter Scholarship Fund was established by a bequest of $50,000 in the will of Max Richter, father of Helen Richter Elser of the Class of 1913. The income from this fund is to be used to provide assistance for one or more students in the obtaining of either an academic or professional degree. The fund shall be administered on a non-sectarian basis to such applicants as are deemed worthy by habits of character and scholarship. No promises of repayment shall be exacted but it is hoped that students so benefited will desire when possible to contribute to the fund in order that similar aid may be extended to others. Such students shall be selected from among the graduates of public high schools or public colleges in the City of New York. (1961)

The Lidie C. B. Saul Scholarship, tenable for four years, is given by the Alumnae Association of the Philadelphia High School for Girls. It is awarded every four years to the graduate of the Philadelphia High School for Girls who enters Bryn Mawr College with the highest grade of that year. (1895)

The Serena Hand Savage Memorial Scholarship was established in memory of Serena Hand Savage of the Class of 1922 by her friends. The income from a fund of $22,952 is awarded to a member of the junior class who shows great distinction of scholarship and character and who needs financial assistance. This scholarship may be renewed in the senior year. (1951)

The Constance Schaar Scholarship Fund, now totalling $6,180, was established in 1964 by her parents and friends in memory of
Constance Schaar of the Class of 1963. The Class of 1963 added their reunion gift in 1964 to this fund. (1964)

The Frances Marion Simpson Scholarships, carrying up to full tuition and tenable for four years, were founded in memory of Frances Simpson Pfahler of the Class of 1906 by Justice Alexander Simpson, Jr., by gifts amounting to $20,682. One scholarship is awarded each year to a member of the entering freshman class who cannot meet in full the fees of the College. In awarding these scholarships first preference is given to residents of Philadelphia and Montgomery Counties who have been prepared in the public schools of these counties or at home by parents or guardians; thereafter, under the same conditions, to residents of other counties of Pennsylvania, and, in special cases, to candidates from other localities. Holders of these scholarships are expected to repay the sums advanced to them. If they become able during their college course to pay the tuition fees in whole or in part, they are required to do so. (1912)

The Mary Williams Sherman Memorial Scholarship Fund, now amounting to $4,150, was established by bequest of Bertha Williams of Princeton, New Jersey. (1942)

The Shippen Huidekoper Scholarship Fund of $5,000 was established annually on the nomination of the President. (1936)

The Gertrude Slaughter Scholarship Fund was established by bequest of $19,909 by Gertrude Taylor Slaughter of the Class of 1893. The income on this fund is to be used for undergraduate scholarships, preferably to students of Greek or Latin. (1964)

The Anna Margaret Sloan and Mary Sloan Scholarships were founded by bequest of Mary Sloan of Pittsburgh. The income from this fund of $16,858 is awarded annually to students majoring in Philosophy or Psychology. (1942)

The Cordelia Clark Sowden Scholarship Fund was established by a bequest of $15,000 from the Estate of Helen C. Sowden. The income from this fund is used for scholarships to be awarded by Bryn Mawr College under the rules in effect at the time of the award. (1957)

The Amy Sussman Steinhart Scholarship, carrying full tuition, was founded in memory of Amy Sussman Steinhart of the Class of 1902 by her family and friends. The income from gifts now
totalling $33,652 is awarded annually to an entering student from one of the states on the west coast. (1932)

The Mary E. Stevens Scholarship Fund was given in memory of Mary E. Stevens by former pupils of The Stevens School in Germantown. The income on this fund of $3,188 is awarded annually to a junior. (1897)

The Summerfield Foundation Scholarship was established by a gift from the Solon E. Summerfield Foundation. The income from this fund, which now totals $8,000, is to be used to assist able students who need financial help to continue their studies. (1958)

The Mary Hamilton Swindler Scholarship was established in honor of Mary Hamilton Swindler, Professor of Classical Archaeology from 1931 to 1949, by a group of friends and former students, by gifts totalling $8,493. The income from this fund is used for a scholarship for the study of Archaeology at Bryn Mawr College. (1950)

The Elizabeth P. Taylor Scholarship Fund was established by a bequest of $10,160 from Elizabeth P. Taylor of the Class of 1921. (1961)

The Trustees' Scholarships, varying in amount up to full tuition, and tenable for four years, are made available by the Trustees of Bryn Mawr College for students prepared in the high schools of Philadelphia and its suburbs. Two of these scholarships are awarded annually to candidates who have received all their preparation for entrance in Philadelphia high schools and are recommended by the Board of Public Education of Philadelphia; two are awarded annually to candidates who have received all their preparation for entrance in public schools in the suburbs of Philadelphia and are awarded by the College after consultation with the principals of the schools presenting candidates. The amount of the award varies according to the need of the applicant. (1895)

Two or sometimes three of these scholarships are supported by the income from The Jacob Fussell Byrnes and Mary Byrnes Fund, which was established in memory of her mother and father by a bequest of $51,513 under the will of Esther Fussell Byrnes. (1948)

The Julia Ward Scholarship Fund was established by a gift of $7,075 for a scholarship in memory of Julia Ward of the Class
of 1923 by one of her friends and by additional gifts from others. The income on this fund which now amounts to $19,843 is to be used for undergraduate scholarships. (1962)

The Eliza Jane Watson Scholarship Fund was established by gifts of $17,500 from the John Jay and Eliza Jane Watson Foundation. The income from this fund is to be used to assist one or more students as selected by the College to meet the cost of tuition. (1964)

The Elizabeth Wilson White Memorial Scholarship was founded in memory of Elizabeth Wilson White by a gift of $7,513 by Thomas Raeburn White. It is awarded annually by the President. (1923)

The Thomas Raeburn White Scholarships, established by a gift of $25,000, made by Amos and Dorothy Peaslee on April 6, 1964 in honor of Thomas Raeburn White, Trustee of the College from 1907 until his death in 1959, Counsel to the College throughout these years and President of the Trustees from 1956 to 1959. The income from this fund is to be used for scholarships to undergraduate students studying foreign languages, with preference given to those students who will be studying abroad. (1964)

The Mary R. G. Williams Scholarship Fund was established from the Fund for Promoting College Education for Women established by bequest of Mary R. G. Williams. The income from this fund of $5,694 will be used for emergency grants for students who are paying their own way through college. (1957)

The Mary Peabody Williamson Scholarship was founded by bequest of $1,000 by Mary Peabody Williamson of the Class of 1903. (1939)

The Marion H. Curtin Winsor Memorial Scholarship was established by a bequest of $10,000 in the will of Mary Winsor, in memory of her mother. The income on this fund is to be awarded to a resident Negro student. (1960)

The Mary Winsor Scholarship in Archaeology was established by a bequest of $3,000 under the will of Mary Winsor. The income only is to be used. (1960)

The Ellen Winsor and Rebecca Winsor Evans Memorial Scholarship Fund was established by a bequest of $5,250 in the will of Rebecca Winsor Evans. The scholarship is to be awarded to a resident Negro student. (1962)
The Rebecca Winsor Evans and Ellen Winsor Memorial Scholarship Fund was established by a bequest of $5,230 in the will of Ellen Winsor. The scholarship is to be awarded to a resident Negro student. (1962)

The Lila M. Wright Memorial Scholarship was founded in memory of Lila M. Wright by gifts totalling $2,987 from the alumnae of Miss Wright's School of Bryn Mawr. (1934)

The Georgie W. Yeatman Scholarship was founded by bequest of $1,000 under the will of Georgie W. Yeatman of Philadelphia. (1941)

SCHOLARSHIPS FOR FOREIGN STUDENTS

The Bryn Mawr Canadian Scholarship will be raised and awarded each year by Bryn Mawr alumnae living in Canada. The scholarship, varying in amount, will be awarded to a Canadian student entering either the undergraduate or graduate school. (1965)

The Chinese Scholarship comes in part from the annual income of a fund now totalling $30,027 established by a group of alumnae and friends of the College in order to meet all or part of the expenses of a Chinese student during her four undergraduate years at Bryn Mawr College. (1917)

The Marguerite N. Farley Scholarships for foreign students were established by bequest of Marguerite N. Farley. The income from a fund of $331,425 will be used for scholarships for foreign graduate and undergraduate students covering part or all of their expenses for tuition and residence. (1956)

The Special Trustees' Scholarship is awarded every four years to a foreign student. It carries free tuition and is tenable for four years. The scholarship for students from foreign countries was first offered by the Trustees in 1940.

The Undergraduate Scholarship, raised by the Undergraduate Association and awarded by the Association in consultation with the Director of Admissions, is awarded each year to a foreign student entering Bryn Mawr. The award is variable in amount but covers as a minimum the cost of tuition. (1938)
Academic Awards

Prizes and Academic Awards

The following awards, fellowships, scholarships and prizes are in the award of the Faculty and are given solely on the basis of academic distinction and achievement.

_The Bryn Mawr European Fellowship_, value $1,000, has been awarded each year since the first class was graduated in 1889. It is given for merit to a member of the graduating class, to be applied toward the expenses of one year's study at some foreign university. The holder of this fellowship receives in addition an _Elizabeth S. Shippen Scholarship for Foreign Study_.

_The Commonwealth Africa Travelling Scholarship_ was established by a grant of $50,000 from the Thorncroft Fund, Inc. at the request of Helen and Geoffrey de Freitas. The income from this fund will be used to send, for at least six months, a Bryn Mawr graduate to a university or college in Commonwealth Africa, or former British colony in Africa, to teach or to study, with a view to contributing to mutual understanding and the furtherance of scholarship. (1965)

_The Maria L. Eastman Brooke Hall Memorial Scholarship_ was founded in memory of Maria L. Eastman, Principal of Brooke Hall School for Girls, Media, Pennsylvania, by gifts totalling $3,310 from the alumnae and former pupils of the school. It is awarded annually to the member of the junior class with the highest general average and is held during the senior year. Transfer students who enter Bryn Mawr as members of the junior class are not eligible for this award. (1901)

_The Charles S. Hinchman Memorial Scholarship_ was founded in memory of the late Charles S. Hinchman of Philadelphia by a gift of $12,000 made by his family. It is awarded annually to a member of the junior class for work of special excellence in her major subject and is held during the senior year. (1917)

_The Sheelah Kilroy Memorial Scholarships in English_ were founded in memory of their daughter Sheelah, by Dr. and Mrs. Philip Kilroy by a gift of $5,000. These scholarships are awarded annually on the recommendation of the Department of English as follows: to a student for excellence of work in second-year or advanced courses in English, and to the student in the first-year course in English Composition who writes the best essay during the year. (1919)
The Elizabeth S. Shippen Scholarships were founded by two bequests of $5,000 each under the will of Elizabeth S. Shippen of Philadelphia. Three scholarships are awarded annually, one to the member of the senior class who receives the Bryn Mawr European Fellowship, and two to members of the junior class, as follows: 1. The Shippen Scholarship in Science, to a student whose major subject is Biology, Chemistry, Geology or Physics; 2. The Shippen Scholarship in Foreign Languages, to one whose major subject is French, German, Greek, Italian, Latin, Russian or Spanish. To be eligible for either of these two scholarships a student must have completed at least one semester of the second-year course in her major subject. Neither may be held by the winner of the Charles S. Hinchman Memorial Scholarship. Work in elementary courses will not be considered in awarding the scholarship in foreign languages; 3. The Shippen Scholarship for Foreign Study (See European Fellowship, page 143). (1915)

The Gertrude Slaughter Fellowship was established by a bequest of $50,000 in the will of Gertrude Taylor Slaughter of the Class of 1893. The Fellowship is to be awarded to a member of the graduating class for excellence in scholarship to be used for a year's study in the United States or abroad. (1964)

The Elizabeth Duane Gillespie Fund for Scholarships in American History was founded by a gift from the National Society of Colonial Dames of America in the Commonwealth of Pennsylvania in memory of Elizabeth Duane Gillespie. Two prizes are awarded annually on nomination by the Department of History, one to a member of the sophomore or junior class for work of distinction in American History, a second to a student doing advanced work in American History for an essay written in connection with that work. The income from this fund of $1,970 has been supplemented since 1955 by annual gifts from the Society. (1903)

The Helen Taft Manning Essay Prize in History was established in honor of Helen Taft Manning, in the year of her retirement, by her class—1915. The income on a fund of $2,600 is to be awarded as the Department of History may determine. (1957)

The Academy of American Poets Poetry Prize of $100 has been awarded each year for five years to the student who submits to the Department of English the best poem or group of poems. The Award, given by the Academy of American Poets, was first made in 1957 and renewed for five years in 1961.
Academic Awards

The Bain-Swiggett Poetry Prize was established by a gift of $1,000 from Mr. and Mrs. Glen Levin Swiggett. This prize is to be awarded annually by a committee of the Faculty on the basis of work submitted. The income only is to be used. (1958)

The Hester Ann Corner Prize for distinction in literature was established in memory of Hester Ann Corner of the Class of 1942 by gifts totalling $2,625 from her classmates and friends. The award is made annually to a junior or senior on the recommendation of a committee composed of the chairmen of the Departments of English and of classical and modern foreign languages. (1950)

The Katherine Fullerton Gerould Memorial Prize was founded in 1946 by a gift of $1,500 from a group of alumnae, many of whom were students of Mrs. Gerould when she taught at Bryn Mawr from 1901-10. This year the fund was increased by bequest of $2,400 by one of her former students. It is awarded by a special committee to a student who shows evidence of creative ability in the fields of informal essay, short story, longer narrative or verse. (1946)

The M. Carey Thomas Essay Prize is awarded annually to a member of the senior class for distinction in writing. The award is made by the Department of English for either creative or critical writing. It was established in memory of Miss Thomas by her niece, Millicent Carey McIntosh of the Class of 1920. (1943)

The Charlotte Angas Scott Prize in Mathematics. A prize to be awarded annually to an undergraduate on the recommendation of the Department of Mathematics was established by an anonymous gift in memory of Charlotte Angas Scott, Professor of Mathematics and a member of the faculty of Bryn Mawr College from 1885-1924. The income only from this gift is to be used. (1961)

The Anna Pell Wheeler Prize in Mathematics. A prize to be awarded annually to an undergraduate on the recommendation of the Department of Mathematics was established by an anonymous gift in honor of Anna Pell Wheeler, Professor Emeritus of Mathematics and a member of the faculty of Bryn Mawr College from 1918-48. The income only from this gift is to be used. (1961)

The Emma Osborn Thompson Prize in Geology was founded by bequest of Emma Osborn Thompson of the Class of 1904.
From the income on the bequest of $500 a prize is to be awarded from time to time to a student in Geology.  (1963)

The Jeanne Quistgaard Memorial Prize was given by the Class of 1938 in memory of their classmate, Jeanne Quistgaard. The income on this fund of $690 may be awarded every two years to a student in Economics. Awarded in 1965.  (1938)

The Esther Walker Award was founded by the bequest of $1,000 from William John Walker in memory of his sister, Esther Walker, of the Class of 1910. It may be given annually to a member of the senior class who in the judgment of the Faculty shall have displayed the greatest proficiency in the study of living conditions of Northern Negroes.  (1940)

Scholarships for Medical Study

The following scholarships may be awarded to seniors intending to study medicine, after their acceptance by a medical school, or to graduates of Bryn Mawr intending or continuing to pursue medical education. Applications for the scholarships should be made to the Dean of the College before April 15 preceding the academic year in which the scholarship is to be held. Applications for renewal of scholarships must be accompanied by letters of recommendation from instructors in the medical school.

The Linda B. Lange Fund was founded by bequest of $30,000 under the will of Linda B. Lange of the Class of 1903. The income from this fund will provide the Anna Howard Shaw Scholarship in Medicine and Public Health, awarded on recommendation of the President and Faculty to a member of the graduating class or a graduate of the College for the pursuit, during an uninterrupted succession of years, of studies leading to the degrees of M.D. and Doctor of Public Health. The award may be continued until the degrees are obtained.  (1948)

The Hannah E. Longshore Memorial Medical Scholarship was founded by Mrs. Rudolph Blankenburg in memory of her mother by a gift of $10,000. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school. It may be renewed for each year of medical study.  (1921)
The Jane V. Myers Memorial Medical Scholarship Fund of $10,000 was established by Mrs. Rudolph Blankenburg in memory of her aunt. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school. It may be renewed for each year of medical study. (1921)

The Harriet Judd Sartain Memorial Scholarship Fund was founded by bequest of $21,033 under the will of Paul J. Sartain. The income from this fund is to establish a scholarship which is awarded to a member of the graduating class who in the judgment of the Faculty needs and is deserving of assistance for the study of medicine. This scholarship may be continued for the duration of her medical course. (1948)

Student Employment

Students may obtain employment such as clerical and library work, typing, reading aloud, child care and waiting on table through the Bureau of Recommendations, Taylor Hall. In conducting this Bureau, the College offers an employment service for permanent, temporary and part-time positions to its alumnae and former students as well as to those in college. It also offers assistance in choosing a vocation. Students registering with the Bureau will be informed of openings in the kind of work they have requested.

The Bureau also acts as a clearing house for letters of recommendation for its registrants; these letters will be sent upon request to prospective employers and other agencies for summer work for undergraduates or for full or part-time employment for alumnae and former students.

Students of foreign citizenship wishing employment should consult the Adviser to Foreign Students whose office is in the Library.
Loan Funds

Bryn Mawr College administers two kinds of loan programs. The first consists of three funds established through the generosity of alumnae and friends of the College. Applications for loans from the three funds must be accompanied by the Parents' Confidential Statement prepared by the College Scholarship Service of the College Entrance Examination Board.

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students to obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

Loans may be used for any purpose approved by the committee, but not more than $500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed $1,500. Students who wish loans may obtain from the Dean or the Alumnae Office, on the second floor of the Deanery, the necessary blanks, which must be accompanied by a letter of recommendation from the Dean. As a rule, money is not loaned to freshmen or to students in their first semester of graduate work. Applications, except in cases of emergency, must be filed before September 10. Approximately a month is required for action on applications.

While the student is in college no interest is charged, but she may reduce the principal of the loan if she so desires. From September 1, 1964, the interest rate is three per cent, to be paid after the student leaves college. The entire principal must be repaid within five years from the time the student leaves college at the rate of twenty per cent each year.

Contributions to the Loan Fund may be sent to the Chairman of Scholarships and Loan Fund, Bryn Mawr College Alumnae Association, Bryn Mawr, Pennsylvania.

The Mary Hill Swope Loan Fund was established June 1, 1945, by a gift of the late Mrs. Gerard Swope (Mary Hill, A.B. 1896) under the following conditions:
Loan Funds

To assist in the education of young women irrespective of color or creed attending Bryn Mawr College, the income of the fund to be loaned to students in the following manner:

a. The following order of preference shall be followed in awarding such loans—to students coming from New Jersey, to students coming from Missouri, to students coming from any other location who have had not less than one year of residence at the College.

b. The loans in the above order of preference, and in the following manner, shall be awarded by the President of Bryn Mawr College, or by a committee appointed by her from time to time.

c. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.

d. These loans shall be used primarily to enable the exceptional student to continue her studies, which otherwise would be prevented through lack of means.

e. Except under extraordinary circumstances, the maximum amount which may be borrowed annually is $500. No interest is charged while the student is in college. From September 1, 1964, the interest rate is three per cent, to be paid after the student leaves college. The principal is to be repaid within five years from the time the student graduates or leaves Bryn Mawr at the rate of twenty per cent each year.

The Gerard and Mary Hill Swope Loan Fund was established in 1962 under the following conditions:

a. The $200 loans required of scholarship students may be borrowed from this fund. Applications must be submitted simultaneously with scholarship applications.

b. Non-scholarship students and graduate students are also eligible to apply for loans from this fund.

c. The maximum amount which can be borrowed for any given academic year is $500.

d. While the student is in college or graduate school no interest is charged, but she may reduce the principal of the loan if she so desires. From September 1, 1964, the interest rate is three per cent, to be paid after the student leaves college. The entire
principal must be repaid within five years from the time the student leaves college at the rate of twenty per cent each year.

e. Loans are awarded by a committee consisting of the Dean of the College (Chairman), the Dean of the Graduate School and the Director of Admissions.

The second kind of loan program administered by the College is based on government funds made available through the National Defense Education Act (NDEA) Student Loan Program. Applications for loans must be accompanied by the Parents' Confidential Statement prepared by the College Scholarship Service of the College Entrance Examination Board. Borrowers must subscribe in writing to an oath or affirmation of allegiance to the United States of America. Under the NDEA Student Loan Program, students may borrow up to $1,000 each year, depending on need, and all loans from this source may not exceed a total of $5,000.

Students who, upon graduation, teach on a full-time basis in public or private non-profit elementary and secondary schools and in institutions of higher education are allowed cancellation of their debts at the rate of ten per cent for each year of teaching up to a maximum cancellation of fifty per cent of the total loan.
Alumnae Representatives

All Alumnae officers and representatives will be glad to give general information about the College. Specific questions in regard to admissions or scholarships should be directed to the Office of Admissions, Bryn Mawr College, Bryn Mawr, Pa.

Officers of the Alumnae Association

President, Mrs. Lyman Spitzer, Jr., 659 Lake Drive, Princeton, N. J.
First Vice-President, Mrs. Paul D. MacLean, 9916 Logan Drive, Potomac, Md.
Second Vice-President, Mrs. Edward G. McLaughlin, Moylan-Rose Valley, Pa.
Recording Secretary, Mrs. George J. Lincoln, III, 1428 Old Gulph Road, Villanova, Pa.
Corresponding Secretary, Mrs. Robert A. Hammond, III, 3106 33rd Place, N.W., Washington, D. C.
Treasurer, Mrs. John M. Huebner, 150 Anton Road, Wynnewood, Pa.
Chairman, Alumnae Fund, Mrs. Kenneth W. Gemmill, Five Spruce Farm, Jamison, Bucks County, Pa.
Chairman, Scholarship and Loan Committee, Mrs. Robert E. Forster, 501 Oakley Road, Haverford, Pa.
Editor, The Alumnae Bulletin, Mrs. Arthur M. Sherwood, 19 Cleveland Lane, Princeton, N. J.
Alumnae Secretary, Mrs. B. Herbert Lee, The Deanery, Bryn Mawr, Pa.
Executive Secretary, Alumnae Fund, Miss Ellenor Morris, Braefield, Chester Springs, Pa.

Alumnae Directors of Bryn Mawr College

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### Alumnae Representatives

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- Nashua: Miss Anna Stearns, 37 Orange Street

**New Jersey**
- Princeton: Mrs. Douglas Delanoy, 62 Battle Road
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- Mrs. Richard H. Dana, Jr., 180 East 95th Street
- Mrs. Jean Ellis, 340 East 80th Street
- Mrs. John D. Gordan, 113 East 78th Street
- Mrs. Russell K. Jones, Fiduciary Trust Company, 1 Wall Street
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- Syracuse: Mrs. Jay E. Brett, 20 Colonial Drive

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            Milwaukee  Mrs. Verne Ross Read, Jr., 5553 North Shepard Avenue
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Puerto Rico
            San Juan  Mrs. Manuel Gomez-Meltz, Box 5155, Puerta de Tierra
Alumnae Representatives

FOREIGN

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Canada
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Mrs. Raymond O. Heimbecker, 75 Hillholme Road, Toronto
Mrs. David B. Morgan-Grenville, 4988 Grosvenor Avenue, Montreal, 29

Denmark
Mrs. Harald Vestergaard, Ornekulsvej 11, Charlottenlund

England
Mrs. James A. Cochrane, Woodmans Green Farm, Linch, near Liphook, Hampshire
Mrs. Stanley Harper, 37 Cliford Road, London, S.E. 25
Mrs. Webster Plass, c/o British Museum, London, W.C. 1

France
Mme Jean Maheu, 1 rue Clovis, Paris V
Mrs. Stanislas Mangin, 49 rue de Bellechasse, Paris VII

Germany
Mrs. Hans Loening, Fischerhude bei 2801, Bremen

Greece
Miss Elizabeth Douli, Korae 18, Nea Smyrne, Athens

Holland
Miss M. Sigrid de Vogel, 90 Ruychrooklaan, The Hague

Hong Kong
Mrs. Morton Abramowitz, U.S. Consulate General, Hong Kong, B.C.C.

India
Miss Harsimran Malik, 28 Golf Links, New Delhi 3

Italy
Mrs. Enrico Berra, Piazzale Biancomanis 2, Milan

Japan
Miss Taki Fujita, 10 Uenohera, Nakano, Tokyo
Miss Ai Hoshino, 10 Uenohera, Nakano, Tokyo

Mexico
Mrs. Arturo Gomez, Liverpool 143-205, Mexico 6, D.F.

Netherlands West Indies
Mrs. E. A. Eriksen, Box 447, Seroe Colorado, Aruba

Norway
Mrs. Harald Sommerfeldt, Hofsvaen 18, Skoyen, Oslo

Philippine Islands
Mrs. Marcial P. Reyes, Jr., 14 Ilagen Street, San Francisco del Monte, Quezon City

Turkey
Miss Suna Kili, Robert College, Bebek, Istanbul

Venezuela
Mrs. Oscar de Schnell, Apartado 69, Caracas
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Directions to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

**By air:** From the Philadelphia International Airport take the airport limousine to Philadelphia and the Paoli Local to Bryn Mawr or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.

**By automobile:** From the east or west take U.S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43—Interstate #76), turning right at the exit marked "Ardmore-Chester" to Pa. #23, which is 5.5 miles east of the toll gate; continue into Alternate #23 (Montgomery Avenue) which leads directly into the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues, continue for one block, then turn left again to Yarrow Street which leads directly to the campus.

**By bus:** All Greyhound buses arrive at the Philadelphia terminal at 17th and Market Streets, adjoining Suburban Station. Trailways buses arrive at 13th and Arch Streets, three blocks from Suburban Station. Take the Paoli Local from Suburban Station to Bryn Mawr.

**By railroad:** Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

*To walk* to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.

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BRYN MAWR

undergraduate courses

1965/1966
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AIR VIEW OF MAIN CAMPUS, BRYN MAWR COLLEGE
Bryn Mawr College Calendar

THE GRADUATE SCHOOL

ISSUE FOR THE SESSION OF
1966/1967

JULY 1966

Volume LIX Number 2
College Calendar

The Graduate School 1966/1967

First Semester

1966

September 7. Final date for filing completed applications for admission to the Graduate School

September 14. Graduate Center opens to resident students

Registration period for graduate students begins

September 19. Work of 82nd academic year begins at 9 A.M.

September 21. Registration period for graduate students ends

October 22. Italian, Russian, Spanish and Statistics examinations for graduate students

October 29. French language examinations for graduate students

November 5. German language examinations for graduate students

November 23. Thanksgiving holiday begins after last class

November 28. Thanksgiving holiday ends at 9 A.M.

December 16. Christmas vacation begins at 12:45 P.M.

1967

January 4. Christmas vacation ends at 9 A.M.

January 7. Italian, Russian, Spanish and Statistics examinations for graduate students

January 10. Last day of lectures

January 14. German language examinations for graduate students

January 16. College examinations begin

BRYN MAWR COLLEGE CALENDAR, Published December, July, August and September by Bryn Mawr College, Bryn Mawr, Pa. 19010.

Second Class Postage paid at Bryn Mawr, Pa.
College Calendar

January 20. Final date for filing completed applications for Semester II admission to the Graduate School

January 21. French language examinations for graduate students

January 25. Registration period for graduate students begins College examinations end

Second Semester

January 30. Work of the second semester begins at 9 A.M.

February 1. Registration period for graduate students ends

March 25. Spring vacation begins after last class

April 3. Spring vacation ends at 9 A.M.

April 8. Italian, Russian, Spanish and Statistics examinations for graduate students

April 10. Ph.D. dissertations in all fields except experimental science and mathematics must be submitted to the Graduate School Office

April 15. French language examinations for graduate students

April 22. German language examinations for graduate students

May 1. Ph.D. dissertations in experimental science and mathematics must be submitted to the Graduate School Office

May 12. Last day of lectures

May 15. College examinations begin

May 26. College examinations end

May 29. Conferring of degrees and close of 82nd academic year

June 3. Alumnae Day
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Faculty and Staff

Physical Education

IRENE A. CLAYTON, M.S. (University of Wisconsin), Director of Physical Education

SHARON ANN PLOWMAN, M.S. (University of Illinois), Instructor in Physical Education

GLORIA SCHMIDT, M.A. (New York University), Instructor in Physical Education

GAIL STRATHDEE, B.S. (Tufts University), Instructor in Physical Education

JANET A. YEAGER, Instructor in Physical Education

Child Study Institute

RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania), Director

ELIZABETH PRESTON, M.S.S. (Bryn Mawr College), Social Caseworker

LOUISE BRUNK, M.S.S. (Bryn Mawr College), Social Caseworker

VIRGINIA G. KEEN, M.S.W. (University of Pennsylvania School of Social Work), Part-time Social Caseworker

JEANNE MURRAY, M.S.W. (University of Washington), Social Caseworker

CHRISTINE PATZAU, M.S.W. (University of Pennsylvania School of Social Work), Social Caseworker

ELSIE WAELDER, M.S.W. (Western Reserve University), Part-time Social Caseworker

LELIA BRODERSEN, M.A. (Temple University), Psychologist

ELEANOR BEATTY, M.A. (George Washington University), Psychologist

ISABEL WESTFRIED, M.A. (Bryn Mawr College), Psychologist
ANITA GRINNELL, M.S. (University of Pennsylvania), Part-time Psychologist
FREDERIC J. KWAPIEN, M.D. (Tufts University School of Medicine), Consulting Psychiatrist
HERMAN STAPLES, M.D. (Hahnemann Medical College), Consulting Psychiatrist
ANNE D. EMMONS, M.S. (University of Pennsylvania), Remedial Reading Teacher
CONSTANCE GRANT, B.S. (University of Pennsylvania), Remedial Reading Teacher
BETH RISER, A.B. (Northwestern University), Remedial Reading Teacher
HOPE D. MITCHELL, A.B. (Sarah Lawrence College), Psychological Assistant

Phebe Anna Thorne School

SUSAN E. MAXFIELD, M.S. (Yale University), Director
JOAN FRASER, B.S. (Northwestern University), Teacher
MARY GIBBS SMITH, A.B. (Bryn Mawr College), Assistant Teacher

Committees

The Graduate Committee

President McBride, Chairman
Dean Foster, Vice-Chairman
Mr. Ferrater Mora
Miss Stapleton
Mr. Watson
Mr. Bachrach

Mr. González Muela
Mr. Maurin
Miss Mellink
Mr. Ross
(Mrs. Lower, semester I)
Mr. Zimmerman

The Graduate Scholarships Committee

Dean Foster, Chairman
President McBride, ex officio
Mrs. Maw

Mr. Anderson
Mrs. Hanson
Introduction

BRYN MAWR COLLEGE was founded as an institution of higher education for women by Dr. Joseph Taylor of Burlington, New Jersey, a member of the Society of Friends. The charter was granted by the Commonwealth of Pennsylvania in 1880 and five years later the College opened. At the time of its founding, advanced education of a rigorous character was difficult for women to obtain and graduate study itself was still in its earliest stage. The trustees' inability to find young women qualified to give the kind of instruction envisioned by the Founder led them to include in the plans for the new college the education of women right through to the Ph.D. Thus when Bryn Mawr College opened in 1885 it was with the first Graduate School for women and the first full graduate fellowships for women. Since 1931 the Graduate School has admitted both men and women. Scholarships, fellowships and assistantships are available for both men and women.

The purpose of graduate work at Bryn Mawr is to prepare students for professional careers in which scholarship and research are fundamental requirements. To this end emphasis is placed on independent work and special opportunities are provided for study and research, in small seminars, under the guidance of members of the Faculty.

Graduate work leading to the M.A. and Ph.D. is offered in the fields of modern literatures, the classics, art and archaeology, music, history and social sciences, philosophy, mathematics, the natural sciences and psychology. A two-year course in Social Work and Social Research leads to the degree of Master of Social Service; the advanced program in this Department leads to the Ph.D.

In all departments fellowships and scholarships are offered to applicants who are highly qualified for the work they propose to do. In a number of departments teaching or research assistantships are also available. Canadians may apply for fellowships or scholarships on the same basis as students from the United States. Awards are made to women students from overseas through the Marguerite N. Farley Fund and through teaching assistantships in French, German, Italian and Spanish.
The Graduate School

ADMISSION

THE GRADUATE SCHOOL is open to qualified graduates in liberal arts and sciences, men and women, from colleges or universities of acknowledged standing. Application for admission, to be made to the Dean of the Graduate School, Bryn Mawr College, Bryn Mawr, Pennsylvania, should be supported by official transcripts of the student's full academic record and by letters from the dean and from two or more professors of the applicant's undergraduate college. Applications should be filed, complete, by the dates specified on pages 2 and 3. When writing for applications, students should indicate their fields of interest.

Admission to graduate courses is under the jurisdiction of the various departments which may, at their discretion, require students whose preparation is insufficient to pursue certain undergraduate courses before being enrolled in a graduate course. Admission to the Graduate School does not automatically qualify a student to become a candidate for an advanced degree. Students whose courses of study meet the prerequisites may on application to the Graduate Committee be enrolled as candidates for the Degrees of Doctor of Philosophy, Master of Arts or Master of Social Service.

Graduate Record Examination. The Bryn Mawr Graduate School recognizes as contributory evidence of the qualifications of a student for admission a record of attainment in the Graduate Record Examination. It is required by the Departments of Biology, Education and Child Development, English, Physics and Spanish. Applicants for admission to the Graduate School who wish to take the examination should apply directly to the Graduate Record Examination, Educational Testing Service, P.O. Box 592, Princeton, N. J., where full information may be secured and arrangements for taking the test may be made.

REGISTRATION

All graduate students, after consultation with the chairmen of their departments, must register for courses at the Office of the Dean of the Graduate School each semester during the registration period. Changes in registration require the approval of the Dean.
Program of Study

THE GRADUATE PROGRAM is planned to give students a small number of hours in the seminar (usually not more than six hours a week) and time for individual work under the guidance of members of the faculty. Graduate students work in seminar rooms and laboratories close to the offices of members of the faculty and have ample opportunity for conference and discussion.

Seminars and graduate courses are described under the announcements of the Departments. They are open to properly qualified first-year as well as more advanced graduate students.

Three units of graduate work constitute a full program. Instead of a seminar or graduate course, students may take for graduate credit:

1. A supervised unit of graduate work, equivalent to a seminar or graduate course, planned and examined by a member of the faculty but carried on independently by the student. Such work may consist of reading with selected reports, research with results submitted or a combination of both.

2. An advanced undergraduate course with additional work. Advanced undergraduate courses are sometimes elected to complete the student's prerequisites or to provide essential training in an allied field. One such course, accompanied by additional work, may, with the approval of the major department, be included in the M.A. program. Such undergraduate courses are listed with the graduate courses in this Calendar.

Journal Clubs and Colloquia. In many departments the members of the faculty and graduate students meet from time to time to discuss current research or to review recent publications in their field of study. Students will be notified by their respective departments of arrangements for their Colloquia or Journal Clubs.

Prerequisites. The prerequisites for graduate courses are established by the various departments. In special cases, with the
approval of the department concerned, work in related subjects may be accepted in lieu of the stated prerequisites.

**RECIPROCITY WITH THE UNIVERSITY OF PENNSYLVANIA**

Courses at the University of Pennsylvania, Graduate School of Arts and Sciences, are available to graduate students at Bryn Mawr College. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the University is limited to the equivalent of one unit per year. Under the Reciprocal Plan the procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr, with the exception that the student will present a letter of introduction to the Dean of the Graduate School of the University of Pennsylvania when registering there. The University charges a small general fee for the use of the Library, a $5.00 library deposit, which is refundable, and fees for lateness. Since the University of Pennsylvania opens early in September, students coming to Bryn Mawr for the first time will not be able to take courses at Pennsylvania until the second semester.

**SUMMER WORK**

Bryn Mawr has no summer session. Occasionally, however, arrangements can be made for graduate students to continue their research during the summer under the supervision of members of the faculty. Such arrangements are made at the invitation of the members of the faculty. The amount of credit for the work and the tuition fee to be charged depend upon the particular circumstances. Students will register for such work at the Graduate Office early in June.

**SUMMER INSTITUTES IN FRANCE AND SPAIN**

Bryn Mawr College offers a summer program of intensive work in significant aspects of French culture at the Institut d'Études Françaises d'Avignon. Certain of the courses carry graduate credit. For information write to Dr. Michel Guggenheim, Department of French, Bryn Mawr College.

For a similar summer program in aspects of Hispanic culture at the Centro de Estudios Hispánicos in Madrid write to Dr. Phyllis Turnbull, Department of Spanish, Bryn Mawr College.
BRYN MAWR COLLEGE awards the degrees of Doctor of Philosophy, Master of Arts, and Master of Social Service.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The course of study for the degree of Doctor of Philosophy at Bryn Mawr College is designed to prepare the candidate for a professional career as a scholar. The course offers the student the opportunity to acquire a broad general background in chosen fields of knowledge and practice in research in these fields. The degree is awarded after the student's general knowledge and ability in research have been tested by examination and by a dissertation.

The candidate for the Ph.D. degree should have ability of high order, intellectual curiosity and critical judgment, independence, a broad general education, fundamental training in the major and allied fields and the determination needed to carry through an exacting program.

The regulations for the Ph.D. degree are described in detail in a special pamphlet which will be given to applicants for candidacy. The general requirements, to which should be added those of the various departments, are:

1. An undergraduate preparation in major and allied fields which is satisfactory to the departments concerned and to the Graduate Committee.

2. A course of study requiring a minimum of three full years of work beyond the A.B. degree in major and allied fields; for graduates of other colleges, two of these years must be spent in the Graduate School of Bryn Mawr College but for candidates
who have held academic appointments at Bryn Mawr College and occasionally for others this requirement may be reduced by the Graduate Committee; for candidates who hold the A.B. degree from Bryn Mawr College, one full year of graduate work at Bryn Mawr is required. Although there are no formal course requirements for the Ph.D. degree, students will ordinarily find it advisable to complete six or seven units of graduate work.

3. The recommendation of the student as a candidate by the director of the dissertation and the major department and the acceptance of the recommendation by the Graduate Committee. Application for candidacy, on a form to be obtained at the Graduate Office, may be made as early as the spring of the student's first year in the Graduate School provided that the student has completed two units of graduate work in residence.

4. A reading knowledge of two modern languages, tested by written examinations in the translation of texts in the field of the major subject.* These examinations must be passed before the student takes the Preliminary Examination.

5. A satisfactory Preliminary Examination in the candidate's major and allied fields. This examination, consisting of several written examinations, and at the option of the department, an oral examination, is intended to test the candidate's general knowledge of the fields rather than familiarity with particular courses.

6. The preparation of a dissertation judged to be a contribution worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject. It must contain new material, results or interpretations.

7. A satisfactory Final Oral Examination in the special field of the major subject in which the dissertation has been written.

8. The publication of the dissertation in whole or in part. Microfilming is accepted as a method of publication.

* See the statements under the Departments for the language requirements. For the Ph.D. in Social Work only one modern language is required. Students whose mother tongue is not English may, with the approval of their department, be excused from one of these language examinations. (They may not offer their own language.)
The degree represents the completion of a coordinated program of graduate work which, in the case of well-prepared candidates, can be accomplished in one academic year. Work for the degree may be spread over several years which need not be in succession but must be included in a five-year period. Only courses taken at Bryn Mawr College are credited for the degree.

Prerequisites. The prerequisite for the M.A. degree is an A.B. degree or its equivalent from an American college of recognized standing or a degree or certificate of the same standard from a foreign university. The preparation must include such undergraduate work in the candidate's major subject and allied fields as the various departments require.

Application. The candidate applying for the degree in the department of the major work must receive the endorsement of the department for the program of work and must be accepted by the Graduate Committee. The application and the program endorsed by the major department must be submitted to the Dean of the Graduate School not later than December 1 of the academic year in which the candidate wishes to take the degree. Application forms are supplied by the Graduate Office.

Language Requirement. A reading knowledge of two modern languages is in general required of all candidates.* Students in Economics and Education may offer Statistics instead of the second language. In Psychology and Sociology, Statistics is required and the language requirement is reduced to one. Candidates whose major work is in a modern language must offer a reading knowledge of two other languages.

The language requirement is met by passing a written examination set by the major department in reading, at sight and with a dictionary, material in the candidate's major field.

Examinations in languages, and in the techniques which in certain departments may be substituted for one language, are held three times each year, in October, January and April. At least one of the examinations must be taken not later than the October period of the academic year in which the degree is to be

* See the statements under the Departments for the departmental language requirements.
received. All departments except Biology, Classical Archaeology, Mathematics and Spanish require that at least one shall be passed by that time. No candidate may receive the degree in any academic year unless both examinations have been passed by the January examination period, or, in special cases approved by the major department and the Graduate Committee, permission has been obtained to postpone one until the April period.

Students are expected to prepare for these examinations before entering upon the work for the M.A. degree and are strongly urged to take both examinations in October. Students who do not meet the two requirements in languages and techniques in October may find it impossible to carry a full program and complete the requirements for the degree in one year.

Only one of these language examinations is required of students whose mother tongue is not English.* Instead of a second, they are asked to present evidence of proficiency in English as part of their application for admission; during the first semester the students' departments will be asked to certify that their knowledge of English meets the departmental requirement. This special regulation for foreign candidates does not prevent a department from refusing to admit students to any seminar for which their proficiency in languages is inadequate.

Program of Work. The candidate's program must include three units of work: (1) one seminar or graduate course; (2) a second seminar or supervised unit of graduate work; (3) a third seminar or an undergraduate course recommended by the major department. If undergraduate courses are included in this last unit, they must be supplemented by additional individual work. Under certain circumstances advanced undergraduate courses in science can be counted as seminars, subject to the approval of the department and the Dean of the Graduate School. Candidates may take three units of work in one major department or two in a major department and one in an allied field. Candidates whose major department conducts a Journal Club or Colloquium are expected to include it in their program.

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* They may not offer their own language.

Foreign students in the Department of Psychology will meet the requirement with Statistics; students in the Department of Education may do so if they prefer; students in the Department of Sociology may do so if their native language is French or German.
Special Field. The candidate shall, in consultation with the major department, select a special field for the M.A. paper and the Final Examination. It is expected that this field will normally relate to one of the seminars or units of graduate work in the candidate's program.

Final Requirements.

1. Courses. Before the Final Examination period, candidates must have completed to the satisfaction of their instructors the courses registered for the degree. No candidate will be admitted to the Final Examination if one of these courses is reported as unsatisfactory.

2. Paper in the Special Field of the Student's Major Subject. Every candidate must present a paper in the special field. The paper may take the form of a report on a special piece of investigation carried on throughout the year or during a definite period, or of a problem which is assigned to be completed during a specified limit of time. The date when the paper is due is set by each Department for candidates in residence; for those not in residence it must be submitted in finished form by May 1 of the year of the degree.

3. An Examination. Every candidate must pass a Final Examination which shall test her ability to place the special field in the general background of the major subject.

The Final Examination may not be taken until

(1) the language requirements have been met;
(2) the three units have been reported as satisfactory;
(3) the paper in the special field has been accepted.
THE DEGREE OF MASTER OF SOCIAL SERVICE

The program for the M.S.S. degree is designed to prepare graduates for Social Casework and Community Organization. Two academic years of full-time study are required. The degree represents the completion of a coordinated program of courses and field instruction. In the program in social casework, provision is made for concentration in the following fields: Child Welfare, Family Welfare, Medical, Psychiatric and School Social Work. In Community Organization preparation is provided for Community Welfare Planning, Neighborhood Organization, Urban Renewal and Intergroup Relations.

Prerequisites. The prerequisite for the M.S.S. degree is an A.B. degree or its equivalent from an American college or university of recognized standing, or a degree or certificate of the same standard from a foreign university. An undergraduate major in a liberal arts field with some emphasis on the social sciences is usually required. In exceptional cases this requirement may be waived.

Requirement in Statistics. All M.S.S. students must pass an examination in Statistical Concepts. There is no foreign language requirement for the M.S.S. degree.

Requirements for Degree. Candidates for the degree of Master of Social Service must complete the two-year program of study consisting of a minimum of eighteen semester courses or the equivalent in full-year courses including field instruction; they must prepare a Master's paper and pass a final examination which tests the ability to place their special fields in the general background of social work.

Special Part-time Program. It is possible for students for the Master's degree to extend the two-year program to three years. The usual pattern is to complete the first graduate year's requirements over a period of two years on a part-time basis, and to complete the second year's requirements during the third year on a full-time basis.

For a copy of the special Bulletin describing the M.S.S. program, write to the Director of the Department, 815 New Gulph Road, Bryn Mawr, Penna. 19010.
Fees and Residence

FEES

THE TUITION FEE for graduate students is $1500 a year, payable one half early in the first semester and the other half early in the second semester.

For students registered for part-time work the fee for each course, seminar, or unit of supervised work, is $500 a year or $250 a semester.

Fees for auditors are the same as for students registered in courses for credit.

Students taking undergraduate courses in the sciences (not for graduate credit) are charged laboratory fees at $15 per course per semester.

Students whose fees are not paid before November 15 in the first semester and before March 15 in the second will not be permitted to continue in residence or to attend their classes. No reduction of the tuition fee will be made on account of absence, withdrawal, or dismissal or for any other reason.

The graduation fee for Doctors of Philosophy, Masters of Arts, and Masters of Social Service is $20.00.

Summary of Expenses for the Academic Year

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<th>Regular</th>
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<tr>
<td>Tuition Fee</td>
<td>$1500</td>
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<td>Residence (including health service)</td>
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<th>Contingent</th>
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<td>Dispensary Fee (non-resident students)</td>
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<td>Health Insurance (foreign students)</td>
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<td>Social Work Field Instruction Fee</td>
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<td>Laboratory Fee for undergraduate courses</td>
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<td>(not for graduate credit), per course</td>
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<td>Graduation Fee</td>
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<td>Charge for microfilming Ph.D. dissertation</td>
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<tr>
<td>Room on campus Christmas and spring vacations</td>
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<td>($1.50 per day—maximum 30 days)</td>
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Bryn Mawr College

THE GRADUATE CENTER

Residence for forty-five women graduate students is provided in the Graduate Center which lies at the north end of the campus, about an eight-minute walk from the Library. Meals and health service are included in the residence charge. There is a separate bedroom for each student, furnished except for rugs and curtains; bed linen, including blankets, is provided but students should bring towels. Because of college fire regulations, smoking is not permitted in the bedrooms but there is a smoker on each floor. The dining room, which seats sixty, is open to students living outside the Center who wish to lunch or dine there.

Application for a room should be made as early as possible. A room contract, which will be sent upon request, must be signed and returned with a deposit of ten dollars to the Dean of the Graduate School. The deposit will be deducted from the residence fee; it will not be refunded under any circumstances.*

A student who has reserved a room in the Graduate Center will be held responsible for the residence charge unless she sends notice of withdrawal, in writing, to the Dean of the Graduate School before September first. Appropriate reduction or remission of the residence fee will be made if the College is able to reassign the room to another student not already accommodated in the Center. The student herself is not entitled to dispose of the room she leaves vacant. Appropriate reduction or remission will be made for that portion of the residence fee which represents the cost of food. A student in residence who is absent from the College for six weeks or more because of illness will also be granted a proportionate reduction for food. Allowance cannot be made for dietary restrictions.

The regular charge for residence (room, board and health service) for graduate students is $1000 a year, payable one half early in the first semester and the other half early in the second.

Residence in the Center is for the academic year only—from the opening of college in the fall until Commencement Day. One of the residence halls is kept open during Christmas and spring vacations where students may stay at a charge of $1.50 a day (meals not included). Baggage will be accepted at the Col-

* Students applying for residence in the Graduate Center are asked to submit reports of recent medical examinations. See pp. 53-54.
Fees and Residence

College after Labor Day, September 5, 1966. It should be sent prepaid, addressed to the Graduate Center, and marked with the owner's name.

There is no hall of residence for men. They and other non-resident students must make their own living arrangements. Lists of accommodations may be seen in the Comptroller's Office.

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

EXCLUSIONS

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.
Fellowships and Scholarships

THE COLLEGE awards, on the basis of academic excellence, about sixty graduate scholarships and fellowships to women who are graduates of accredited colleges or universities. Some awards are open to men on the same basis. The various types of awards are described below.

APPLICATION

Applications for fellowships and scholarships should be made to the Dean of the Graduate School and must be filed complete not later than February 15 preceding the academic year for which they are desired. The documents are the same as for admission. In writing for forms applicants should state their fields of concentration. Awards are announced in late March and recipients should signify their acceptance or refusal by April fifteenth.

Completed applications for scholarships for foreign women must be received not later than January 25. The applicants will be informed of the action taken early in March.

FELLOWSHIPS

Twenty-three Fellowships, value $3000 each, are offered annually in Biology, Chemistry, Classical and Near Eastern Archaeology, Economics, Education and Child Development, English, Geology, German, Greek, History, History of Art, Latin, Mathematics, Medieval Studies (the Howard Lehman Goodhart Fellowship), Music, Philosophy, Physics, Political Science, Psychology, Romance Languages (two fellowships), Russian, Social Work and Social Research (the Carola Woerishofer Memorial Fellowship), and Sociology and Anthropology. They are awarded on the basis of merit and are open to American and Canadian women who are graduates of colleges of good standing, and who have completed at least one full year of graduate work.

The Theodore N. Ely Fund. An additional Fellowship or Scholarship in Art or Archaeology is awarded from the interest on this fund, which was established in 1959 by bequest of Katrina Ely Tiffany, Class of 1897.
The Margaret Gilman Fund. An additional Fellowship or Scholarship in French, open to both men and women, is awarded from the interest on this fund, which was established in 1958 by bequest of the late Margaret Gilman, Professor of French at Bryn Mawr College.

The S. Maude Kaemmerling Scholarship was established in 1959 by a gift from the estate of S. Maude Kaemmerling and increased by a gift in 1965. The income on the fund is to be used for graduate scholarships and fellowships.

The Samuel H. Kress Foundation Fellowships in varying amounts are awarded to advanced graduate students in History of Art. These awards are made possible by a grant from the Samuel H. Kress Foundation.

The Katharine Elizabeth McBride Fellowship. In the 75th Anniversary Year a fund for a graduate Fellowship in honor of Katharine Elizabeth McBride, President of the College, was established by gifts from a few friends of Miss McBride among the alumnae. The endowment of this fellowship was increased by a gift from the Class of 1925 on its 40th reunion. The fellowship is awarded in any Department to a candidate for the Ph.D. degree who is about to complete two years or more of graduate work.

The Ida H. Ogilvie Fellowships in Geology are awarded each year from part of the income of the Ida H. Ogilvie Fund, which was established in 1965 through the bequest of Dr. Ogilvie, a member of the Class of 1896.

The Max Richter Fellowship Fund was established in 1962 and increased in 1965 by gifts from the Trustees of the Richter Memorial Foundation. Income from the endowment provides two or more fellowships to advanced students interested in political affairs.

The Mildred Clarke Pressinger von Kienbusch Fellowship was established in 1964 by a gift in honor of Mildred Clarke Pressinger von Kienbusch of the Class of 1909. The income on this fund is to be used for a graduate student working toward the doctorate.

Fellows by Courtesy

Fellows who continue their studies at the College after the expiration of their fellowships may, by a vote of the Directors, receive the rank of Fellow by Courtesy.
GRADUATE SCHOLARSHIPS

Twenty-one Graduate Scholarships, value $2300 each, are offered annually to women for work in any department of the Graduate School. Holders of these scholarships in their first year of graduate work at Bryn Mawr are required to live at the Graduate Center. Others may elect to do so. The stipend covers tuition and part of the residence charges. Scholars who have had a full year at Bryn Mawr may live off campus. In that case tuition and dispensary fees will be deducted from the stipend and the balance paid the student in November and March.

The College also offers several Graduate Scholarships, value $2300 each, to men. Tuition and dispensary fees will be deducted from the stipend and the balance paid the student in November and March. There is no hall of residence for men.

TUITION SCHOLARSHIPS

Eight scholarships providing free tuition are available to men and women whose homes are in the neighborhood.

SCHOLARSHIPS FOR FOREIGN WOMEN

Ten scholarships are especially designated for foreign women who have excelled in their university studies. Applicants must have had three or four years of university training. Each scholarship carries a stipend of $2500 which covers full tuition and residence in the Graduate Center during the academic year. (Vacations are not included and students will need to provide additional funds for these and for other non-college expenses.) A student who holds a scholarship for a second year may live off campus if she prefers. Scholarship holders are expected to carry a full program of graduate work and to attend regularly the courses for which they are registered. At times an advanced undergraduate course may meet the student's needs better than a graduate seminar; in that case she will make extra contributions in order to bring the work to the graduate level. Most of the formal work, however, is given in seminars. These are best described as small discussion groups in which the students, as well as the instructor, actively participate. It is essential, therefore, that the student be able not only to read and write English, but to under-
Fellowships and Scholarships

stand it and speak it fluently. For a full statement of the graduate program and requirements, reference should be made to the preceding pages and to the departmental announcements.

The Marguerite N. Farley Scholarships for Foreign Women. Five foreign scholarships, of the value of $2500, are offered to women from any country outside the United States and Canada.

A Special British Scholarship, of the value of $2500, is reserved for a candidate from Great Britain sponsored by The English-Speaking Union.

Special Foreign Scholarships for French, German, Italian and Spanish, of $2600 each, have been established for students whose languages form part of the Bryn Mawr curriculum. Holders of these scholarships are asked to devote four or five hours a week to supervised teaching or other assistance in the appropriate language department. The Special Scholarship for French has been named in memory of Marcelle Pardé who was a member of the French Department of Bryn Mawr College between 1919 and 1929. The Special Scholarship for Spanish has been named in memory of Miguel Catalan, distinguished Spanish physicist and friend of Bryn Mawr.

SCHOLARSHIPS AND FELLOWSHIPS UNDER THE PLAN FOR THE COORDINATION OF THE SCIENCES

The several departments of the natural sciences and mathematics administer a fund for the Coordination of the Sciences, given to the College by the Carnegie Corporation of New York. Its purpose is to encourage and facilitate teaching and research in fields such as biochemistry, biophysics, geochemistry, geophysics and psychophysics.

Scholarships of $2500 each are open to qualified students who have had undergraduate training in two or more of the natural sciences and who wish to continue study in a field that includes both of them.

Scholarships may also be awarded to students planning to specialize in one science only, but desiring further training in a related science. Students who wish to begin preparation in one or more of the natural sciences are also eligible for scholarships and on this plan such students, who are essentially taking a “Fifth-Year” of undergraduate work, are considered special graduate
students whose program will not lead to a higher degree in their first year in the Graduate School.

Fellowships of the value of $3000 each in the same fields are also offered to candidates who, in addition to undergraduate training, have had at least a year of graduate work in science.

These Scholars and Fellows will pay the regular tuition of $1500 a year. For residence in the Graduate Center an additional $1000 will be charged.

In certain cases a candidate who is unable to pursue full-time graduate study may be awarded a partial scholarship or fellowship.

When appropriate a post-doctoral Research Fellowship is offered to a candidate who wishes to work in a borderline field, as outlined above, or one who, while working in one science, wants to utilize methods or tools of another science for a specific research problem.

The scholarships and fellowships under the Plan for the Coordination of the Sciences are open to men as well as women.

NATIONAL DEFENSE GRADUATE FELLOWSHIPS

Under Title IV of the National Defense Education Act several fellowships are available, primarily to first-year graduate students, in certain designated fields of study. Inquiries about the fellowships should be addressed to the Dean of the Graduate School about the first of December.

NATIONAL SCIENCE FOUNDATION GRADUATE TRAINEESHIPS

Several traineeships are available to first- and second-year graduate students in mathematics, the natural sciences and certain fields in the social sciences.

SOCIAL WORK AND SOCIAL RESEARCH

The Carola Woerishoffer Fellowship in Social Work and Social Research, of $3000, is offered annually to a student in the Department.

The Carola Woerishoffer Scholarship in Social Work and Social Research, of $2300, is offered annually to a student in the Department.
Agency Fellowships and Scholarships. A number of scholarships ranging in value from $500 to $2400 are offered by various agencies in Philadelphia and vicinity to second-year graduate students, men and women, who wish to be candidates for the degree of Master of Social Service. These agency scholarships and fellowships frequently call for field work placement in the agency giving the grant, and in some cases require an agreement relative to employment for one year following the holding of a grant.

Federal Stipends. Through grants from the United States Public Health Service, the Department offers traineeships of $1800 for first-year students, and $2000 for second-year students, to both men and women. The holders of such stipends must have career objectives in psychiatric social work.

Through grants from the Vocational Rehabilitation Administration, the Department offers traineeships of $1800 and $2000 (plus the cost of tuition) for first- and second-year students respectively. Holders of such stipends must have career objectives in rehabilitation. Traineeships of $2400 for the third year and $3600 for the fourth year of study (plus the cost of tuition) are also available from the United States Public Health Service to advanced students who meet certain requirements and are beginning work for the Ph.D. Application to the Department for such traineeships is necessary by November 1 of the year preceding the proposed year of study.

Susan M. Kingsbury Research Assistantship, a research assistantship of the value of $2200 with remission of tuition, will be granted to an advanced student, preferably a candidate for the degree of Doctor of Philosophy, who from either training or experience has knowledge of methods and techniques in social research. The holder of the Assistantship will give one-half time to the research of the Department, and one-half time to study and is not permitted to hold any other paid position.

TRAVELLING FELLOWSHIPS

The Fanny Bullock Workman Travelling Fellowship, value $2500-$2600, for a year of study or research abroad was established in 1927 by bequest of Fanny Bullock Workman and by gift of her husband, Dr. W. Hunter Workman. It is awarded to
a candidate for the degree of Doctor of Philosophy at Bryn Mawr College who could not have the advantages of such a year without assistance. At the discretion of the Faculty, the fellowship for any one year may be divided between two students, or the same student may hold the fellowship for more than one year.

The Anna Ottendorfer Memorial Research Fellowship in Teutonic Philology and German Language and Literature, founded in 1907 by Mrs. Anna Woerishofer of New York City in memory of her mother, is to be applied to the expenses of study and residence for one year at a German university. It is awarded annually on the basis of evidence regarding ability to conduct independent investigations in the fields of Teutonic Philology or German Literature to a candidate who has completed at least one year of graduate study at Bryn Mawr College. The choice of a university is determined by the holder's preference, subject to the approval of the Faculty.

The Ella Riegel Fellowship or Scholarship in Classical Archaeology was founded in 1937 by bequest of Ella Riegel. It is awarded on the recommendation of the Department of Classical and Near Eastern Archaeology and only to advanced students in this subject. It is given for study abroad but may, at the discretion of the Department, be used at Bryn Mawr College.

REGULATIONS FOR FELLOWS AND SCHOLARS

All holders of fellowships and scholarships are required to carry a full program of graduate work. Holders of fellowships are expected to give as much as an hour and a half a week to special work for their departments, and are not permitted to accept any other appointments. Holders of scholarships may, with the approval of the Dean of the Graduate School, make their own arrangements to do a limited amount of paid work. Each Travelling Fellow is asked to present a written report of her work during her year on the fellowship. This report should be sent about the first of March to the Dean of the Graduate School for transmittal to the student's department.
Fellowships and Scholarships

THE HELEN SCHAEFFER HUFF MEMORIAL RESEARCH FELLOWSHIP

This fellowship is awarded for a year of research work in Physics or Chemistry at Bryn Mawr College. Candidates must be women who have demonstrated their ability for research. If other qualifications are equal among a number of candidates, preference will be given to a woman whose field of research overlaps the fields of Chemistry and Physics. This fellowship is normally awarded to a post-doctoral candidate to enable her to continue her research program. In such cases the stipend will be $4500. In exceptional cases, candidates engaged in important research who have not completed the work for the doctorate will be considered. For such students the stipend will be less, the amount to be determined on the basis of the candidate's qualifications.

The Helen Schaeffer Huff Memorial Research Fellow has no duties except those connected with her own research, but she may arrange with the department in which she is working to do a small amount of teaching if she so desires.

EMMY NOETHER FELLOWSHIP IN MATHEMATICS

The Emmy Noether Fellowship was founded by gifts from many donors in memory of Emmy Noether who came to Bryn Mawr College from Germany in 1933 and who died April 14, 1935. It is open to women in the United States and in foreign countries who are advanced graduate students of Mathematics. It is awarded by the Department of Mathematics in Bryn Mawr College, and may be used, subject to the approval of the Department, at any institution in the United States or in a foreign country.

GRADUATE PRIZE

The Susan B. Anthony Memorial Prize, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered from time to time to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic or political position of women. The award is made by the Committee of which the President of the College is chairman. The value of the prize is determined by funds available from the income of the gift to the College.
PARTIAL TUITION GRANTS

The Trustees have established a small fund for partial tuition grants to students who are unable to undertake full-time graduate work. The grants are made on the basis of need as well as of high academic standing. Those interested in applying should provide the Dean of the Graduate School with full financial statements and ask the departmental chairmen to write supporting letters.

GRANTS-IN-AID

Contributions to the Alumnae Fund by former graduate students have placed at the disposal of the Graduate Scholarships Committee a small fund from which grants-in-aid may be made. These grants, not to exceed $400, are given on the basis of need to resident Scholars to help them meet college expenses. Application forms may be obtained from the Graduate Office; they should be submitted if possible by April 15.

GRADUATE ASSISTANTSHIPS

Teaching Assistantships are available to graduate students in the Departments of Biology, Chemistry, Education, Geology, Physics, Psychology and Social Work. The positions carry salaries of $2100-$2900 for half-time work ($1400-$1550 for one-third) and include tuition without fee for half to two-thirds time graduate work. They provide teaching and laboratory experience outside the classroom, mainly in the undergraduate laboratories.

Research Assistantships are available in Chemistry, Physics, Psychology and Social Work. These are usually for half-time work and provide half-time tuition without fee in addition to salaries of $2100-$2300.

Other Assistantships, usually for one-third time work and paying $1400-$1550, are offered in the Departments of Anthropology, Archaeology, Economics, Education, History, History of Art, Mathematics, Philosophy, Political Science and Sociology. The duties of assistants differ in different departments. In all departments, the assistant is entitled to carry on graduate study for which tuition is remitted.
Loan Funds

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students to obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

Loans may be used for any purpose approved by the committee, who strongly recommend the borrowing of small sums to relieve undue financial pressure, or to meet special emergencies. As a rule, money is not loaned to students in their first semester of graduate work. Not more than $500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed $1500.

While the student is in College no interest is charged; after the student leaves College the interest rate is three per cent. The entire principal must be repaid within five years from the time the student leaves College at the rate of twenty per cent each year. Students who wish to borrow from the Loan Fund may obtain application blanks for this purpose from the Alumnae Office, The Deanery, Bryn Mawr, Pennsylvania.

The Mary Hill Swope Loan Fund was established June 1, 1945 by a gift of Mrs. Gerard Swope (Mary Hill, A.B. 1896) under the following conditions:

To assist in the education of young women irrespective of color or creed attending Bryn Mawr College, the income of the fund to be loaned to students in the following manner:

1. The following order of preference shall be observed in awarding such loans:
   a. To students coming from New Jersey.
   b. To students coming from Missouri.
   c. To students coming from any other location who have had not less than one year of residence at the College.
2. The loans in the above order of preference, and in the following manner, shall be awarded by the President of Bryn Mawr College, or by a Committee appointed by her from time to time.

3. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.

4. These loans shall be used primarily to enable the exceptional student to continue her studies which otherwise would be prevented through lack of means.

5. In the awarding of the loans, the recipient should understand that if in after years she is in a position to do so, she is to repay to the income account of the Loan Fund the amount so loaned to her, with or without interest. It is to be understood that this is entirely a moral obligation upon the recipient.

National Defense Student Loan Program—NDEA Title II. Loans are available to qualified graduate students under this Title. They are now open to half-time as well as full-time students and the partial loan cancellation has been extended to teachers in private non-profit schools and colleges. For information and forms write to the Dean of the Graduate School.

The Bureau of Recommendations

The College conducts a Bureau of Recommendations for alumnae, students, and former students. This Bureau offers an employment service for permanent, temporary, and part-time positions; gives assistance in choosing a vocation; and acts as a clearing house for letters of recommendation for those who have registered with the Bureau. These letters will be sent, upon request, to prospective employers, placement offices of other colleges, and employment agencies.

Students of foreign citizenship are advised that government regulations severely limit their employment in this country.
Libraries, Collections and Laboratories

THE M. CAREY THOMAS LIBRARY containing over 325,000 volumes has a good working collection in all fields in which graduate study is offered. The collection includes back files and current numbers of over one thousand periodicals published in the United States and abroad. For the use of graduate students there are twelve seminar rooms and, in addition, a limited number of carrels in the stacks. The scientific libraries are described on page 51.

The open shelf system provides the maximum of free access to the stacks so that almost all books except those in the Rare Book Rooms are directly available to the students. The Reference Room, Bibliography Room and Periodical Room provide ready access to standard works of reference and current periodicals.

The Quita Woodward Memorial Room has been planned for recreational reading. The collection, now numbering about two thousand volumes, includes recent books in literature, art, religion and current affairs as well as many classics.

In the two Rare Book Rooms unusual bibliographical items are shelved and displayed: early printed books, manuscripts, first editions, fine press books, and association copies. Exhibitions of the Library's own material and material lent by friends of the Library are displayed here at intervals during the academic year. Here also are incunabula numbering over nine hundred volumes, the gift of Howard L. Goodhart. This collection, known as the Marjorie Walter Goodhart Medieval Library and consisting mainly of philosophical and theological works printed in the fifteenth century, is outstanding among college library collections.

Other facilities available to graduate students are the rich resources in the libraries of the Philadelphia area. Through the services of the Union Library Catalogue of Philadelphia situated at the University of Pennsylvania volumes in over 300 libraries
within the area may be easily located. The Union Library Catalogue has recorded over 3,500,000 titles in the region. Through this channel the great collections of the University of Pennsylvania, the Free Library of Philadelphia, the Historical Society of Pennsylvania as well as the Library Company of Philadelphia, the American Philosophical Society, the Franklin Institute, the Academy of Natural Sciences, the College of Physicians, Swarthmore College and Temple University are made available on a courtesy basis. Graduate students who wish to use these or other libraries for purposes of reference should secure letters of introduction from the Bryn Mawr librarian.

ART AND ARCHAEOLOGY COLLECTIONS

A small but valuable group of original works of art, available for study, include Greek and Roman vases, ancient coins, sculpture, Oriental pottery and scrolls, prints, and modern American and European paintings. The Ella Riegel Museum of Classical Archaeology contains the Densmore Curtis Collection presented by Clarissa Dryden, part of the Hoppin Collection, the Elizabeth Washburn King Collection of Classical Greek coins, and the Aline Abarcherli Boyce Collection of Roman Republican silver coins, as well as various gifts from friends of the College. Professor Hetty Goldman has deposited the field records and photographic files of the excavations at Colophon (1922) and Tarsus (1934-39, 1946-47) with the Department of Archaeology. She also has given the Ella Riegel Museum an extensive study collection of pottery samples from the Tarsus excavations. For Far Eastern study the Chapin Collection of books, paintings, calligraphy, textiles, and ceramics includes material from Korea as well as from China and Japan. Western art is variously represented by several small collections, including the Howard L. Gray Collection of Modern Prints and the Neuberger Collection of Contemporary American Paintings.

ANTHROPOLOGY MUSEUM AND LABORATORY

The Anthropology Laboratory in Dalton Hall houses several large collections of New World artifacts, including the W. S. Vaux Collection of archaeological and ethnological materials. This important collection, made during the last half of the nine-
teenth century, has as its main emphasis the artistic works of New World Indians. The Anne and George Vaux Collection represents a wide selection of American Indian basketry from the Southwest, California and the Pacific Northwest. The extensive Ward Canaday Collection contains outstanding examples of most of the ceramic and textile traditions known for Peru. Other comprehensive collections, given by faculty and friends of the College, represent the Old World Paleolithic and Neolithic, Paleo-Indian, Eastern Woodland, Southwestern, Middle Mississippian and Mexican antiquities. These collections are shortly to be enlarged by osteological materials and casts of fossil hominids. There is also a small but growing collection of ethnomusical recordings, representing the music of native peoples in all parts of the world. Students are expected to make use of these materials and laboratory facilities; there are limited display areas available for those interested in working on museum exhibits.

LABORATORIES

Laboratories, classrooms and libraries for Biology, Chemistry, Geology, Mathematics and Physics are located in the three buildings of the Science Center. The third building in this complex, the building for the physical sciences, was completed in the summer of 1964. Laboratories and classrooms for Psychology remain in Dalton Hall.

In the Science Center the central building is the Marion Edwards Park Hall for Chemistry and Geology. Adjoining this on the north is a building completed in 1958 for the biological sciences. South of Park Hall is the building for the physical sciences which provides additional space for Chemistry and Geology, all the laboratories for Physics and classrooms and a library for Physics and Mathematics.

In all three buildings in the Science Center and in Dalton Hall there are large laboratories and lecture rooms for undergraduate students and smaller seminar rooms and laboratories for graduate students. In addition to the usual equipment, the science departments have special apparatus and instruments needed in particular research projects by faculty and graduate students and acquired, in part, through the Plan for the Coordination of the Sciences and through research grants from industry and other private sources and from government agencies.
In the new building for the physical sciences there is a machine shop with expert machinists in charge and a student workshop available to graduate students. Rooms in the Biology Building were especially designed for work with radioactive materials, for microphotography and for glass blowing.

A Computing Center under the joint sponsorship of Haverford and Bryn Mawr Colleges is on the Haverford campus. It has an IBM 1620 computer and auxiliary record equipment, available for the use of students and faculty of both colleges.

The Geology Department makes available for study and research important collections. On deposit from the U. S. Army Map Service are over 25,000 maps. The Department's large collection of minerals has been greatly enhanced by the gift of the Mineral Collection of George Vaux, Jr.
Health

THE INFIRMARY

THE COLLEGE maintains a modern 22-bed Infirmary with a full staff of physicians and nurses. The college physicians and psychiatrists may be consulted without charge by students who have paid the dispensary fee. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. If consultation is necessary the student must meet the expense. The Infirmary is open when college is in session and in the spring vacation. It is closed during the Christmas vacation.

The residence charge paid by each resident graduate student entitles her to treatment in the college dispensary, and to care in the Infirmary for seven days (not necessarily consecutive) during the year, to attendance by the college physicians during this time and to nursing, provided her illness is not contagious and is not sufficiently serious to require the services of a special nurse. After the seven-day period the fee is $12 for each day in the Infirmary. In case of contagious disease, special nursing is obligatory and the student must meet this expense.

Non-resident Fellows and Scholars whose homes are not in the neighborhood are required to pay a non-resident dispensary fee of $25, which entitles them to care and consultations by the college physicians and psychiatrists and to dispensary care. Other non-resident students may, if they so desire, pay this fee and receive the same benefits. Since non-resident students cannot be given bed care in the Infirmary they are urged to take out medical insurance.

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

CERTIFICATES REQUIRED

All graduate students, whether resident or non-resident, must file a physician's certificate stating that they have been vaccinated against smallpox during the year before entering the Gradu-
ate School and exhibited a typical or immune reaction to this vaccination. Resident students who have not filed this certificate will be vaccinated on arrival and charged a fee of one dollar. Non-residents will not be permitted to register without this certificate. There is no exception to this rule.

In addition to the above, students applying for residence in the Graduate Center are asked to submit reports of recent medical and ophthalmological examinations signed by the appropriate physicians; evidence of immunization within a year of entrance against diphtheria and tetanus, by toxoid, and against poliomyelitis. A report of a Mantoux test is also required; if this is positive, the results of a chest X-ray must be submitted. The forms for these various certificates are supplied by the Office of the Dean of the Graduate School and are to be returned to the same office. If they have not been received by the time the student arrives in Bryn Mawr, the tests will be done here at the student's expense.

Any student with a health problem identified by her personal physician on the entering health form will be evaluated by the College Physician who will initiate such health supervision or consultation as is necessary.

INSURANCE

All resident and non-resident graduate students of Bryn Mawr College are entitled to subscribe to the Students’ Reimbursement Plan, which provides for a substantial proportion of hospital care and medical fees. The cost of X-rays and special laboratory procedures is not included. The premium for this insurance is $15 for a full year starting October 1. Students should apply to the Comptroller of the College.

Foreign Students. The College also makes available a policy which provides much more adequate coverage of medical, surgical and hospital costs. This insurance is required of students whose permanent residence is not in the United States, unless they have equally complete protection of another kind effective in the United States. The cost for students under age 30 is about $45 for a twelve-month period, starting in mid-September.
Announcement of Courses

1966/1967

The Departments of the Graduate School offer the following seminars and graduate courses. It is the practice of most departments to vary the graduate courses and seminars from year to year. The announced order may be changed either because of changes in the teaching staff or in order to meet the needs of the students.

Square brackets enclosing the titles of courses indicate that, although the courses are regular parts of the program, they are not given in the current year.

Included in each Department announcement if they are offered, are undergraduate courses which can be expanded for graduate credit. Undergraduate courses in each Department are numbered according to the following system: 301, 302, etc. indicate advanced undergraduate courses; the letter "a", following a number, indicates a half-course given in the first semester; the letter "b", following a number, indicates a half-course given in the second semester; the letter "c", following a number, indicates a half-course given two hours a week throughout the year.
Anthropology

Professor:  Frederica de Laguna, Ph.D., Chairman
Assistant Professors:  Jane C. Goodale, Ph.D.
Herbert L. Alexander, Jr., Ph.D.
Visiting Lecturer:  A. Irving Hallowell, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 29-34)

Prerequisites. A good undergraduate preparation in Anthropology or a closely related discipline is desirable. Students whose undergraduate training is not entirely adequate will be required to take such undergraduate courses as may seem necessary.

Allied Subjects. Allied subjects include Biology, Classical and Near Eastern Archaeology, Economics, English Literature, Geology, History, History of Art, Linguistics, Philosophy, Political Science, Psychology or Sociology.

Language Requirements. Candidates for the M.A. or Ph.D. must offer two modern languages.

Program and Examination for the M.A. The program consists of three units of work in seminars or advanced undergraduate courses arranged for seminar credit. One of these may be in an allied subject. The Final Examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

Program and Examinations for the Ph.D. All students are expected to take the equivalent of at least one year's graduate work at another institution approved by the Department (see page 28). All Ph.D. candidates will be expected to become familiar with the principles of at least four the following: (1) Prehistory, or Archaeology of some major area, (2) Physical Anthropology and Human Paleontology, (3) Ethnology, (4) Linguistics, (5) History of Anthropology and Anthropological Theory. These requirements may be satisfied by courses approved by the Department, or competence tested by examination.

The Preliminary Examinations for candidates for the Ph.D. will consist of four three-hour written papers and an oral exami-
nation of one hour. One of these examinations may be in an allied field.

**Seminars and Graduate Courses**

Depending upon the needs of the students, seminars selected from among the following will be offered either as full year courses (1 unit of credit), or as semester courses (½ unit of credit). Other topics may be offered as desirable.

- Ethnographic Methods
- The American Indian
- Oceania and Australia
- Social Organization
- Primitive Religion
- Culture Change
- American Archaeology
- Human Evolution and Prehistory
- History of Anthropology

In addition, courses at the University of Pennsylvania are available under the terms of the Reciprocal Plan (see page 28).

**Selected Undergraduate Courses**

- 203b. *Primitive Culture*: Miss Goodale.
- 204. *American Archaeology*: Mr. Alexander.
- 302b. *Subject to be announced*: Mr. Hallowell.
Biology

Professors: L. Joe Berry, Ph.D., Chairman
Robert L. Conner, Ph.D.
Jane M. Oppenheimer, Ph.D.¹

Assistant Professors: Audrey Barnett, Ph.D.
William G. Hopkins, Ph.D.

Visiting Lecturer: David Y. Cooper, M.D.

Instructor: Jeanne Powell, M.A.

Special Requirements for Graduate Work
(for the general requirements, see pp. 29-34)

Prerequisites. An undergraduate major in Biology, Zoology or Zoology and Botany, including courses in General and Organic Chemistry. Some preparation in Mathematics and Physics is desirable. Students with majors in other subjects may be admitted but will be required to make up any deficiencies in their preparation in Biology before being admitted to graduate courses. All applicants for graduate work in Biology should submit scores in the Graduate Record Examination.

Major and Allied Subjects. Candidates for the M.A. and Ph.D. degrees may specialize in Biochemistry, Developmental Biology, Genetics, Microbiology or Plant Physiology but must take work from areas not chosen for specialization. Allied subjects may also be selected from fields in Chemistry and Physics and in special cases, with the approval of the Graduate Committee, from other related fields.

Language Requirements. Candidates for the M.A. and Ph.D. degrees should offer French and German. Other languages may be accepted by special permission of the Department and the Graduate Committee.

Program and Examination for the M.A. One full year, or its equivalent, of course work in seminars or advanced undergraduate courses arranged for seminar credit and a written report on a piece of experimental work carried out under the direction of a member of the Department. Qualified students may substitute a unit of supervised research for formal course work. While the work may be completed in one year by full-time students, it may be extended over two or more years and students with in-

complete preparation may find such extension necessary. The
Final Examination consists of a three-hour written examination
covering the areas of study and an oral examination concen-
trating particularly on the interpretation and significance of the
experimental problem.

Examinations for the Ph.D. The Preliminary Examination for
the Ph.D. consists of three written examinations, each of four
hours' duration, and an oral examination of one to two hours.
These examinations will cover the areas included in the course
work in the major and allied fields. After the subject of the dis-
sertation has been decided, the student will meet with the faculty
of the Department to outline and discuss the subject and the
proposed plan of research. The Final Examination is oral, cover-
ing the subject of the dissertation in relation to general biological
problems.

Seminars and Graduate Courses

Seminars are offered in the following fields. The topics con-
sidered in any year are selected in accordance with the needs and
desires of the students enrolled.

Mr. Conner: Biochemistry (offered in 1966-7)
Selected topics in intermediary metabolism.
Biochemical techniques.
Cellular Physiology.

Dr. Cooper: Biochemistry (offered in 1966-7)
Lipids and Lipid Metabolism.

Mr. Hopkins: Photomorphogenesis (offered in 1966-7)
Chemical control of plant growth.
Selected topics of plant metabolism.

Miss Barnett: Selected Topics in Advanced Genetics
(offered in 1967-8)

Mr. Berry: Microbiology and Physiology (offered in 1967-8)
Control of biological reactions.
Mechanisms of defense against infectious diseases.
Physiology of micro-organisms.

Miss Oppenheimer: Developmental Biology (offered in 1967-8)
Factors controlling growth and differentiation.
Nucleic acids and proteins in development.
Morphogenesis in invertebrates and vertebrates.
Embryonic induction.
Bryn Mawr College

Advanced Undergraduate Courses

Any advanced undergraduate course may be taken for graduate credit, provided that some additional work either in reading or experimentation is arranged with the instructor and completed by the student.

351. Advanced Genetics and Evolution: Miss Barnett.
353. Biochemistry: Mr. Conner.
354. Physiology of Micro-organisms: Mr. Berry.
355. Developmental Biology: Miss Powell.

Chemistry

Professors: Ernst Berliner, Ph.D., Chairman
George L. Zimmerman, Ph.D.

Associate Professors: Frank B. Mallory, Ph.D.
Joseph Varimbi, Ph.D.

Assistant Professor: Jay Martin Anderson, Ph.D.

Lecturer: Frances Bondhus Berliner, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 29-34)

Prerequisites. An undergraduate preparation in Chemistry including courses in inorganic, analytical, organic and physical chemistry, college Physics and Mathematics (calculus).

Major and Allied Subjects. Students may specialize in either Organic, Inorganic or Physical Chemistry. The allied subject for the Ph.D. may be chosen from the fields of Biochemistry, Mathematics, Physics, Inorganic Geology and a branch of Chemistry different from that of the major subject. Other combinations may be accepted with the approval of the Graduate Committee and on the recommendation of the Department.

Language Requirements. Candidates for the M.A. or Ph.D. must offer German, and either French or Russian.
Program and Examination for the M.A. Candidates will usually offer one seminar in their special field, another seminar or advanced undergraduate course in Chemistry or an allied field and one unit of research. This unit consists of an experimental investigation carried out under the direction of a member of the Department. The Final Examination consists of a four-hour written examination, or a three-hour written and one-hour oral examination.

Program and Examinations for the Ph.D. Candidates will normally be expected to devote a large proportion of their time to the execution and interpretation of experimental work, carried out under the supervision of a member of the Department. They will usually take all seminars offered in their special fields during their stay at Bryn Mawr, in addition to such courses as will give them a broad background in Chemistry. The Preliminary Examination will normally be taken after the experimental work is well advanced. It consists of two four-hour written examinations, one of which is in the major subject and one in the minor subject, and a third, oral examination, which constitutes a defense of a number of research proposals which had been submitted previously by the student. Four such proposals are required, two of which may be related to the student's thesis. For students who offer a minor subject in a department other than Chemistry, equivalent arrangements will be made after consultation with the Department. The Final Examination (oral) is devoted to the subject matter of the student's dissertation.

Seminars and Graduate Courses

In order to meet the needs of the students and to offer them as wide a selection of topics as possible, the seminars are arranged in such a way that the same one is usually not repeated within a three-year period. The topics listed below are given in one-semester seminars, counting one half unit of credit each.

Mr. Anderson: Physical Chemistry
  Nuclear Magnetic Resonance.
  Introduction to Molecular Spectroscopy.
  Intermediate Quantum Mechanics.
Mr. Berliner: *Organic Chemistry*
Physical Organic Chemistry.
Physical-Organic Aspects of Aromatic Chemistry.

Mrs. Berliner: *Organic Chemistry*
Chemistry of Heterocyclic Compounds.
Natural Products.

Mr. Mallory: *Organic Chemistry*
Organic Photochemistry.
Radical Reactions.
Recent Methods in Organic Synthesis.

Mr. Varimbi: *Inorganic and Physical Chemistry*
Inorganic Chemistry.
Theory of Solutions.

Mr. Zimmerman: *Physical Chemistry*
Photochemistry.
Introduction to Chemical Physics.
Applications of Group Theory in Quantum Mechanics.

*Biochemistry*: See under Biology.

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**SELECTED UNDERGRADUATE COURSES**

201b. *Inorganic Chemistry*: Mr. Varimbi.
302. *Advanced Organic Chemistry*: Mr. Berliner, Mr. Mallory.
303a. *Chemical Thermodynamics*: Mr. Zimmerman.
303b. *Quantum Mechanics of Atoms and Molecules*:
Mr. Anderson.
305b. *Advanced Inorganic Chemistry*: Mr. Varimbi.

*Colloquium.* All members of the Department and the graduate students, and often outside speakers, meet every week to discuss current research in chemistry.
Classical and Near Eastern Archaeology

Professor: Machtedl Johanna Mellink, Ph.D., Chairman

Assistant Professors: Kyle M. Phillips, Jr., Ph.D.¹
Brunilde S. Ridgway, Ph.D.

Mary Flexner Lecturer: Kurt Bittel, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 29-34)

Prerequisites. An undergraduate major in Archaeology or at least two courses in Archaeology combined with a major in Greek, Latin or History of Art. It is expected that students of classical archaeology will have some knowledge of Greek and Latin.

Allied Subjects. Greek and Latin Language and Literature; an ancient Near Eastern Language and Literature; History of Art; Ancient History; Anthropology; a science related to the work of the major subject.

Language Requirements. For the M.A. and the Ph.D., a reading knowledge of German and one other modern foreign language.

Program and Examination for the M.A. Three units of work in Archaeology or in Archaeology and an allied field. The Final Examination is written, four hours.

Program and Examinations for the Ph.D. There is no fixed course of study or time requirement for the degree; but at least one of the preparatory years should be spent at some Mediterranean center such as Athens or Rome, and at least one summer should be devoted to European museums. (The Department has in its award the Riegel Fellowship for study abroad.) Before being permitted to take their preliminary examinations, candidates must satisfy their instructors that they are familiar with the general scope and method of archaeological study, including excavational research; that they know where the original source materials are; and that they can make practical use of bibliographical references. They must also satisfy the Department by written examination that they have a general reading knowledge of ancient Greek or an ancient Near Eastern language.

The Preliminary Examination consists of four four-hour papers in such special fields as Greek and Roman sculpture, architecture,

monumental painting, Greek vase painting, numismatics, topography of classical sites, Aegean prehistory, aspects of Near Eastern archaeology. One of the papers may be chosen from an allied subject; but none may deal with the same specific field as the dissertation, since this is included in the Final Oral Examination.

Excavations. The current excavation project of the Department is an investigation of the Bronze Age habitation of southwestern Asia Minor. Excavations at an Early Bronze Age site near Elmali in the interior of Lycia will continue in the fall of 1966.

Advanced graduate students will participate in the excavation which will be run as a field seminar in the first semester. The program provides instruction in excavation techniques combined with the study of Bronze Age problems in the Aegean and western Anatolia. Publication of the excavation results will be prepared on the basis of the joint field reports by the participants.

Cooperation with the Department of Classical Archaeology at the University of Pennsylvania. Attention is drawn to the courses in Classical Archaeology offered by the University. Under the Reciprocal Plan, students may register for a unit of work at the University or pursue research at the University Museum.

**SEMINARS AND GRADUATE COURSES**

The seminars offered in 1966-7 are the following:

Miss Mellink: *Field Seminar in Aegean and Anatolian Archaeology* (Excavations in Lycia, semester I).

*Problems in Aegean Archaeology* (seminar at Bryn Mawr, semester II).

*Problems in Near Eastern Archaeology* (seminar for advanced graduate students, Bryn Mawr, semester II).

Mrs. Ridgway: *The Severe Style in Greek Sculpture* (semester I).

*The Architecture of the Acropolis* (semester II).

Mr. Phillips: *The Palestrina Mosaic* (semester I).

**ADVANCED UNDERGRADUATE COURSES**

201b. *Egypt and Mesopotamia*: Miss Mellink.


301a. *Greek Vase-Painting*: Mr. Phillips.


[303. *Anatolian and Syrian Archaeology*: Miss Mellink.]

Comparative Philology and Linguistics

Professor of Spanish: Joaquín González Muela, D. en F.L.
Assistant Professor of English: Robert B. Burlin, Ph.D.
Assistant Professor of German: Nancy C. Dorian, Ph.D.
Lecturer in Italian: Bernard Toscani, Ph.D.

Comparative Philology may be offered as an allied subject for the Ph.D. but not as a major subject. For courses in Philology, see statements under the Departments of English, French, German, Italian and Spanish.

Economics

Professors: Morton S. Baratz, Ph.D., Chairman
Joshua C. Hubbard, Ph.D.¹

Assistant Professors: Richard B. Du Boff, Ph.D.
George I. Treyz, A.B.

Special Requirements for Graduate Work
(for the general requirements, see pp. 29-34)

Prerequisites. An undergraduate major in Economics, with work in such related fields as History and Political Science. Applicants with majors in other disciplines will be admitted but may first be required to pass a qualifying examination, consisting of a three-hour paper in theoretical economics at the level maintained for final-year undergraduates in Economics at Bryn Mawr College. Students whose undergraduate training in Economics is not entirely adequate may be required to take such undergraduate courses as the Department thinks necessary. Under certain conditions, such work may receive graduate credit.

Allied Subjects. Most subjects in the other social sciences, and in History and Philosophy, are acceptable as allied work. Mathematics, Statistics, and Accounting are not only acceptable as allies but are necessary to advanced work in Economics. Courses in

these subjects, when not offered at Bryn Mawr, may be taken at the University of Pennsylvania under the Reciprocal Plan.

Language Requirements. For the Ph.D. two modern languages. For the M.A. two modern languages or one modern language and either advanced mathematics or econometric analysis.

Admission to the Ph.D. Program

Students holding only the B.A. degree or its equivalent in Economics must apply initially for M.A. candidacy. In exceptional cases, M.A. candidates will be permitted, at the end of not less than three semesters of formal course work and research at Bryn Mawr, to proceed directly toward the Ph.D.

Students holding a Master's degree in Economics from other institutions may be required to pass a qualifying examination before admission to the Graduate School. Those who have been admitted to the Ph.D. program are eligible to apply for candidacy for the Ph.D. when they have completed two full units of graduate work at Bryn Mawr.

Program of Study

The M.A. degree. It is expected that the work for the M.A. degree will require not less than one calendar year of graduate study. All candidates for the M.A. degree must complete three units of formal course work (seminars, courses, supervised units) prior to submitting the M.A. research paper. One of these units must be in Economic Theory, one in Econometrics and one in the student's special field of interest (e.g., Economic Development, Money and Banking, Economic History). Course examinations in each of these three fields must be passed before the candidate presents the research paper. After acceptance of the paper a final examination, consisting of a written paper and a brief oral examination, must be passed.

The Ph.D. degree. Candidates for the Ph.D. will take as much formal course work as is necessary to prepare them for the Ph.D. Examinations. The Preliminary Examination will consist of four three-hour written papers and an oral examination; one of the written papers will be in Economic Theory and one in Economic History; the other two papers will be in fields related to the candidate's major interest. The Final Oral, taken after the dissertation has been accepted, will be devoted to the subject matter of the dissertation.
Education and Child Development

SEMINARS AND GRADUATE COURSES

Mr. Baratz:
Microeconomic Theory.
Industrial Organization and Markets.
Corporate Enterprise and Public Policy.
Economics of Underdevelopment.

Mr. Du Boff:
Comparative Economic Systems.
Economic Development: U. S. and Western Europe.
International Economics.

Mr. Hubbard:
Macroeconomic Theory.
Fiscal-Monetary Theory and Policy.
Theories and Problems of Economic Change.

Mr. Treyz:
Statistics and Econometrics.

Education and Child Development

PRESIDENT OF THE COLLEGE: KATHARINE ELIZABETH McBRIDE, PH.D.

PROFESSOR AND DIRECTOR, CHILD STUDY INSTITUTE: RACHEL DUNAWAY COX, PH.D., Chairman

ASSOCIATE PROFESSORS AND DIRECTOR, THORNE SCHOOL: SUSAN E. MAXFIELD, M.S.

ASSISTANT PROFESSORS:
ETHEL W. MAW, PH.D.
DAVID P. NOWLIS, PH.D.

VISITING LECTURER: MARVIN ROSEN, PH.D.

ASSOCIATE PROFESSORS OF SOCIAL WORK AND SOCIAL RESEARCH:
JEAN D. HARING, D.S.W.
JEANNE C. POLLOCK, M.S.W.

ASSISTANT PROFESSOR OF PSYCHOLOGY: ANNE CONSTANTINOPELE, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 29-34)

The program prepares students for college teaching and research in Educational Psychology and Child Development, for

child guidance, for school psychology, school counseling, for teaching in the schools and for early childhood education. The training is carried on in a setting of service to public and laboratory schools and the community at large. Classes, seminars and staff conferences provide opportunity for students from several related disciplines to develop competence in the team approach to the children’s specialties in education, psychology and guidance agencies. Trends in physical, intellectual and emotional growth from infancy to maturity are stressed. Emphasis is upon learning in the family and the school.

Work leading to the certificate to teach in the public secondary school is open to students who present some preparation in Psychology and are qualified in a subject matter field. Foundation work for teaching in the elementary school is available. A sequence leading to specialization in elementary school counseling with supervised field work in selected schools is open to qualified students.

Prerequisites. An undergraduate preparation in the liberal arts which must include work in General Psychology. Students whose undergraduate training in Psychology is not adequate will be required to take such undergraduate courses as seem necessary. Applicants for admission are asked to submit scores of the Graduate Record Examination in Verbal and Mathematical aptitudes.

Major and Allied Subjects. Candidates for advanced degrees are expected to become competent in several different areas: child development, learning, measurement and guidance, secondary education, the school as a social institution, and history and philosophy of education. For the M.A., two fields are required. For the Ph.D., five fields must be presented. The allied subject may be chosen from the fields of Psychology, Sociology, Anthropology or Philosophy.

Requirements in Languages and Statistics. French and German for the Ph.D.; candidates for the M.A. must either (1) pass examinations in French and German or (2) pass an examination in French or German and demonstrate a working knowledge of statistics. Candidates for the Ph.D. will be required to demonstrate a working knowledge of statistics. The statistics requirement for both degrees may be satisfied by passing an approved course or an examination.

Program and Examination for the M.A. Candidates will normally offer three units of graduate work in Education, although
one of three may be taken in an allied field. A paper embodying the results of independent research is required. The Final Examination consists of two three-hour written examinations, one in each field offered and a one-hour oral examination on the M.A. paper.

*Examinations for the Ph.D.* The Preliminary Examination consists of four written papers and an oral examination on the fields presented. One of the written papers may be in the allied field. The Final Examination is in the field of the dissertation.

**The Phebe Anna Thorne School and the Child Study Institute**

The Phebe Anna Thorne School is maintained by the Department as a laboratory nursery school for normal children where students may observe and assist in the program for three- and four-year olds. For those preparing for teaching, medical work with children, child welfare or guidance, the school provides opportunity for direct experience with early child development. Students preparing for early Childhood Education will spend substantial blocks of time in the school.

The Department also operates the Child Study Institute, a psychological and guidance center where problems of learning and behavior are studied and remedial measures planned and carried out for parents and children. The service is given by a staff of qualified specialists in child psychiatry, psychology, social case work and remedial teaching. Advanced students participate at various levels of responsibility. Referrals from the neurological and pediatric departments of the Bryn Mawr Hospital, from physicians, social agencies and families give students the opportunity for acquaintance with a diversity of clinical material.

A separate building on the college grounds houses the Thorne School and the Institute with rooms equipped for nursery school teaching and for individual examination of pupils, remedial teaching, play therapy and student observation.

**Seminars and Graduate Courses**

The seminars offered are selected from the following:

Miss McBride:

*The American School.*

Mr. Rosen:

*Advanced Clinical Evaluation (including the Projective Techniques).*
Mrs. Cox:
Elementary School Counseling.
*The Individual.
Problems of Child Development.
Adolescent Development.

Miss Maxfield:
*Developmental Psychology.
*Early Childhood Education.
*Growth and Learning in the Kindergarten.

Mrs. Maw:
Educational Psychology.
Curriculum of the Elementary School.
History and Philosophy of Education.
*Research and Measurement in Education and Child Development.

Mr. Nowlis:
*The Psychology of Exceptional Children.
*Learning Problems.
The Social Psychology of the School.

Mrs. Pollock and Miss Haring:
Social Case Work.
Supervised counseling experience in the public school: 12 hours per week for two semesters.

SELECTED UNDERGRADUATE COURSES
[201a. Educational Psychology: Mr. Nowlis.]

Prerequisite: General Psychology. Experience in the Phebe Anna Thorne School required, two hours per week.

301a. Principles of Teaching in the Secondary School:
Mrs. Maw.

302a. Principles of Teaching in the Elementary School:
Mrs. Maw.
These two courses, 301a and 302a, satisfy the practice-teaching requirement of most states. Plans for registration should be made in the spring or summer before the student expects to take the course so that appropriate arrangements can be made. Supervised teaching: 12 hours per week.

303a. Development of Language and Thinking: Mr. Nowlis, Miss Constantinople.

* Laboratory practice required.
Certificate to Teach

Requirements for the state certificate to teach in the public secondary school can be met by the appropriate selection of courses in this Department. Though each state has its own requirements, most follow the same pattern, namely the Bachelor of Arts degree with emphasis upon a content area offered in the secondary school plus eighteen semester hours of professional preparation for teaching. At Bryn Mawr the suggested sequence includes General Psychology followed by Principles of Teaching and Educational Psychology. The student then takes either History and Philosophy of Education or Child Psychology, depending upon her interest and prior training. Required of all is Principles of Teaching in the Secondary School which includes as its laboratory, twelve hours a week of supervised practice teaching in the public school.

Much of the basic work leading to the elementary school certificate is offered by the Department. Additional required courses may be taken at the University of Pennsylvania.

Fulfillment of certification requirements does not fully satisfy requirements for the Master of Arts degree, but because there is some overlap, an able full-time student can meet the requirements for both the certificate and the degree in three semesters.

English

Professors: Mary Katharine Woodworth, Ph.D., Chairman
K. Laurence Stapleton, A.B.
Warner B. Berthoff, Ph.D.
Isabel Gamble MacCaffrey, Ph.D.

Assistant Professors: Robert B. Burlin, Ph.D.¹
Eleanor Winsor Leach, Ph.D.²
Peter J. Leach, M.F.A.
Robert L. Patten, Ph.D.
Catherine Rodgers, Ph.D.

Visiting Lecturer: Edward B. Irving, Jr., Ph.D.
Lecturer: Joan L. Klein, Ph.D.
Instructor: K. Scott Morgan, M.A.

Special Requirements for Graduate Work
(for the general requirements, see pp. 29-34)

Prerequisites. An undergraduate major in English (or its equivalent) consisting of a critical and historical study of several periods of English Literature. Students working in the medieval period must have a reading knowledge of Latin. For other students this is strongly recommended. Students must have had some training in at least one other field of the humanities: a classical or a modern foreign literature, History, the History of Art or Philosophy. All applicants for graduate work in English should submit scores in the Graduate Record Examination.

Allied Subjects. Any language and literature, classical or modern European; English Philology; American Literature; Philosophy; History, medieval or modern; and the History of Art.

Language Requirements. French and German. In special cases, another modern language may be substituted for German, by permission of the Department. Ph.D. candidates will be expected to present evidence of a knowledge of Latin equivalent to two years of high school training. This requirement must be satisfied before the candidate takes the Preliminary Examination for the Ph.D.

Program and Examination for the M.A. Three units of work in English or two in English and one in an allied field. The Final Examination is written, four hours in length. The M.A. paper is due on May 1.

Program and Examinations for the Ph.D. Candidates for the Ph.D. in English will be expected to spend at least one year in full-time graduate work in the Department. The equivalent of six units of graduate work is required, one of which may be in an allied field. The program must include some training in Old English or in the History of the English Language, unless a special exception is granted. The Preliminary Examination is in five parts: four written (from three to four hours each) and an oral (one to two hours). The candidate whose major interest is in the medieval period must take at least one examination in the modern period; the candidate whose major interest is in the modern period must take at least one examination in the medieval period. One examination may be in an allied field. The Final Examination (oral, from one to two hours) is in the field in which the candidate has written the dissertation.
SEMINARS AND GRADUATE COURSES

Since seminars run through the year, students must begin work in the first semester.

Mr. Burlin; Mr. Irving:
1966-7: Middle English.
1967-8: Old English Literature.

Mrs. MacCaffrey:
1966-7: Spenser and Sixteenth-Century Poetry.

Instructor to be announced:
1967-8: Shakespeare.

Miss Stapleton:
1966-7: Milton.

Miss Woodworth:
1966-7: Contemporary Literature.
1967-8: Literature of the Eighteenth Century.

Mr. Patten:
1966-7: The Victorian Period.

Mr. Berthoff:
1966-7: Studies in American Literature.

SELECTED UNDERGRADUATE COURSES

201. Chaucer: Miss Rodgers.
202. Shakespeare: Mr. Morgan.
203. The Romantic Period.
204. The Victorian Period: Mr. Patten.
206b. Restoration Drama and the Age of Dryden: Mrs. Klein.
207. English and American Literature of the Last Half Century: Miss Woodworth.
208. American Literature: Mr. Berthoff.
212b. Blake: Miss Woodworth.
301. Narrative Plays and Lyrics of the Later Middle Ages: Miss Rodgers.
302. The Sixteenth Century: Mrs. MacCaffrey.
303a. Elizabethan and Jacobean Drama.
304. The Seventeenth Century: Mrs. MacCaffrey.
305. The Eighteenth Century: Miss Woodworth.
French

Professor: Mario Maurin, Ph.D., Chairman
Visiting Professor: William J. Roach, Ph.D.
Associate Professor: Michel Guggenheim, Ph.D.
Assistant Professors: Ellen Ginsberg, Ph.D.
M. Pauline Jones, Ph.D.
Instructor: Catherine Lafarge, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 29-34)

Prerequisites. An undergraduate major in French, based on study in school and at least three years of college French, including some advanced work in literature, with evidence of ability to present reports and carry on discussion in French. Training in Latin corresponding to at least two years' study in school.

Major and Allied Subjects. Students specialize in Modern French Literature. In general, it is required that Old French Philology and Literature be offered as the allied subject. In special cases and with the consent of the Department, one of the following may be accepted as an allied subject: any literature, ancient or modern; Comparative Philology; European History; Philosophy; History of Art.

Language Requirements. German, and either Italian or Spanish. Candidates for the M.A. may substitute for the Italian or Spanish examination evidence of extensive training in Medieval Latin or Advanced Classical Latin.

Program and Examination for the M.A. Candidates will offer two units of graduate work in French and a third unit, graduate or undergraduate, in either French or an allied field. An M.A. paper on a topic related to the work in one of the seminars is required. The Final Examination consists of a three-hour written examination and a one-hour oral examination, both in French.

Program and Examination for the Ph.D. The Preliminary Examination consists of four papers written in French, and an oral examination. Usually one paper is in Old French Philology and Literature. If another allied subject is offered, questions on Old

French

French Philology and Literature will be included in one of the fields of the major examination papers. The Final Examination is oral and covers the field in which the dissertation has been written.

Seminars and Graduate Courses

The introductory course in Old French is offered every two years. Students wishing further work in Old French may attend graduate courses at the University of Pennsylvania. Graduate seminars in selected fields of Modern French Literature are given in each year, so arranged that the same one will not be given in successive years. The seminars, which are conducted in French, are selected from the following:

Old French

Mr. Roach:
_Introduction à la littérature du moyen age, présentation systématique des éléments de grammaire historique._

Mr. Guggenheim:
_Le moi dans la littérature française de Montaigne à Gide._
_Moralistes du XVIIe Siècle._
_Rousseau et le Préromantisme._
_Stendhal—Balzac—Flaubert._

Miss Jones:
_Baudelaire._
_Scève et Mallarmé._
_Origines de la poésie moderne._

Mr. Maurin:
_Aspects de l'autobiographie aux XIXe et XXe Siècles._
_Rabelais et Montaigne._
_Arts Poétiques de Mallarmé au Surréalisme._
_Proust—Gide—Mauriac._

Mrs. Ginsberg:
_Aspects de la poésie au XVIe Siècle._
_La tradition philosophique au XVIIIe Siècle._

Journal Club. During the year members of the Department and graduate students meet at intervals to discuss research in progress,
or recent books and articles of interest. Some of these meetings are held jointly with the Departments of Italian and Spanish.

SELECTED UNDERGRADUATE COURSES

[301. French Lyric Poetry: Mrs. Ginsberg, Miss Jones.]
302. French Drama: Mrs. Ginsberg, Miss Jones.
303. The French Novel from 1700 to 1950: Miss Lafarge, Mr. Guggenheim.
[304. French Essayists and Moralists: Mr. Guggenheim, Mr. Maurin.]
305a. Realism and Naturalism: Mr. Maurin.

Geology

PROFESSORS: Edward H. Watson, Ph.D., Chairman
Lincoln Dryden, Ph.D.

ASSISTANT PROFESSORS: Maria Luisa B. Crawford, Ph.D.
William A. Crawford, Ph.D.

Appointment to be announced.

Special Requirements for Graduate Work
(for the general requirements, see pp. 29-34)

Prerequisites. A course in General Geology and at least one course from each of the larger fields: Physical Geology and Paleontologic-stratigraphic Geology. Training in the allied sciences of Physics, Chemistry, Biology and Mathematics is necessary.

Major and Allied Subjects. Students may specialize in the fields typified by: Mineralogy-Petrology, Paleontology-Stratigraphy or Regional and Structural Geology. The allied subject for the Ph.D. may be either another field of Geology or any one of the other natural sciences or Mathematics; other subjects may be accepted in special cases.

Language Requirements. For the M.A. and the Ph.D., German and one other modern language.
Program and Examination for the M.A. Three units of work, of which one will usually be a special piece of field or laboratory research. The Final Examination consists of a four-hour written test and a one-hour oral.

Program and Examinations for the Ph.D. Candidates will spend a major proportion of their time on a research problem; ordinarily, this will involve field mapping and collecting, together with laboratory study. The number of units of class work to be taken will depend on the student's preparation. The Preliminary Examination will test general background in Geology, the candidate's special field and either an allied subject or an additional field in Geology.

Seminars and Graduate Courses

Three or four seminars are offered each year, to be selected from the following:

Mr. Watson, Mr. Crawford: Petrology
Selected subjects in the structure, physical chemistry and origin of rocks.

Mr. Watson, Mr. Crawford: Structural Geology
Modern techniques and concepts in structural analysis.

Mr. Watson, Mrs. Crawford: Mineralogy
The optical, chemical and X-ray study of selected mineral groups.

Mr. Dryden: Stratigraphy
A study of selected theoretical and practical problems of correlation. Usually conducted in connection with a field problem.

Mr. Dryden: Sedimentation
A study of the origin of sedimentary rocks; their source, transportation and deposition.

Mrs. Crawford: Metamorphism
The physical and chemical processes of metamorphism, accompanied by regional studies.

Mrs. Crawford: Optical Mineralogy—Petrography
Semester I: Crystal optics and the properties of the rock-forming minerals. Semester II: A microscopic study of igneous, sedimentary and metamorphic rocks.
Mrs. Crawford: *The Universal Stage and Petrofabrics*
This course may be given in conjunction with that in Metamorphism.

Mr. Crawford: *Geochemistry*
Experimental physical chemistry, phase equilibria, and the
distribution and behavior of the elements as applied to geologic problems.

Mr. Crawford: *Analytical Techniques*
Laboratory course in wet chemical and instrumental means
of silicate analysis. Mechanical separations and experimental petrology.

**SELECTED UNDERGRADUATE COURSES**

[201. Crystallography and Mineralogy: Mrs. Crawford,
Mr. Watson.]

[301. Structural and Field Geology: Mr. Watson.]

[302. Stratigraphy: Mr. Dryden.]

**German**

**PROFESSOR:** CHRISTOPH E. SCHWEITZER, PH.D.,
Chairman

**ASSOCIATE PROFESSOR:** HUGO SCHMIDT, PH.D.¹

**ASSISTANT PROFESSOR:** NANCY C. DORIAN, PH.D.

**VISITING LECTURER:** WERNER VORDTIEDE, PH.D.

**Special Requirements for Graduate Work**
(for the general requirements, see pp. 29-34)

**Prerequisites.** An undergraduate major or minor in German or
an equivalent preparation.

**Major and Allied Subjects.** Students may specialize in either Ger-
man literature or Germanic philology. One of these two fields or
an area in the humanities, especially the literatures, may serve as
the allied subject.

**Language Requirements.** Normally French and Latin for the
M.A. and Ph.D. For the M.A. another language may substitute
for Latin.

**Program and Examination for the M.A.** The program consists of
one or two courses in literature and one in philology. The third

unit may be in an allied field. In addition to acquainting the student with the field in general, the M.A. program introduces various methods of literary criticism. Every candidate must present a paper which represents satisfactory evidence of independent research. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

**Program and Examination for the Ph.D.** Every candidate must fulfill certain requirements in German literature and Germanic philology. Those majoring in Germanic philology will select the following courses: History of the German language, Gothic, Old High German, and one of the following: Old Saxon, Old English, or Old Norse. Work in Comparative Indo-European, structural linguistics, and a non-Indo-European language is recommended. Those majoring in German literature will normally take one unit each in the medieval, classical, and modern periods, as well as at least one genre course. Under the guidance of members of the Department each student will engage in independent reading and research to supplement the course work. The Department encourages interdepartmental research projects and draws attention to the Ottendorfer Research Fellowship for study at a German university. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination.

**Seminars and Graduate Courses**

The courses offered are selected from the following:

**Mr. Schweitzer:**
- German Baroque Literature.
- Goethe and Schiller.
- The "Bildungsroman."

**Mr. Schmidt:**
- Lyric Poetry Since Goethe.
- The Modern German Novel.
- Methods of Literary Criticism.

**Miss Dorian:**
- Linguistics.
- Germanic Philology.
- Middle High German Literature.

**Mr. Vordtiede:**
- German Romanticism.
Selected Undergraduate Courses

300a. German Literature from the Beginnings to the Baroque: Mr. Schweitzer.

[301b. Introduction to Germanic Philology: Miss Dorian.]

[302b. German Language and Literature of the Middle Ages.]

[303. The Classics of the Nineteenth Century: Mr. Schmidt.]

304a. Modern German Literature: Mr. Vordriege.

[305a. The German "Novelle": Mr. Schmidt.]

306b. The German Drama: Mr. Schweitzer.

[307b. German Poetry: Mr. Schmidt.]

Interdepartmental

308. Introduction to Linguistics: Miss Dorian.

309b. Techniques of Linguistic Analysis: Miss Dorian.

Greek

Professors: Richmond Lattimore, Ph.D., Litt.D.

Mabel L. Lang, Ph.D., Chairman

Assistant Professor: T. Leslie Shear, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 29-34)

Prerequisites. An undergraduate major or minor in Greek, based on at least four years of college Greek, or the equivalent, with representative reading from Greek literature and history which, in the opinion of the Department, provides an adequate basis for graduate work. It is expected that all graduate students in Greek will have some knowledge of Latin.

Allied Subjects. Any literature, ancient or modern, Ancient History, Ancient Philosophy, Classical Archaeology, Comparative Philology.

Language Requirements. French and German.

Program and Examination for the M.A. The program consists of two units of graduate work in Greek and a third unit in an allied field. Before admission to the Final Examination candidates must pass an examination in Greek sight translation. The Final Examination consists of a three-hour written examination and an oral examination of one hour.
Examinations for the Ph.D. Before admission to the Preliminary Examination candidates must pass a rigorous examination in Greek sight translation. The Preliminary Examination consists of four written papers, one of which shall be in an allied subject, and an oral examination. The fields from which the three major papers may be selected include: Epic Poetry, Lyric Poetry, Tragedy, Comedy, the Orators, the Historians, the Pre-Socratics, Plato and various periods of Greek history.

SEMINARS AND GRADUATE COURSES

Miss Lang: Thucydides.
Mr. Lattimore: Pindar.

SELECTED UNDERGRADUATE COURSES

102. Homer: Mr. Lattimore.
201. Plato, Thucydides and Tragedy: Mr. Shear.
[301. Hesiod, Lyric Poetry and Comedy.]

History

PROFESSORS:

CAROLINE ROBBINS, PH.D., CHAIRMAN
ARTHUR P. DUDDEN, PH.D.

ASSISTANT PROFESSORS:

CHARLES M. BRAND, PH.D.
MARY MAPLES DUNN, PH.D.
BARBARA M. LANE, PH.D.
ALAIN SILVERA, PH.D.¹

ASSISTANT PROFESSOR OF GREEK AND LATIN:

T. LESLIE SHEAR, PH.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 29-34)

Prerequisites. A good undergraduate preparation in general History, the humanities and the social sciences. Students who wish to work in seminars in the ancient or medieval fields must be able to read Latin. Those planning work in Modern European History must have a reading knowledge of one modern language, preferably French or German.

¹ On leave of absence, 1966-7.
Major and Allied Subjects. Students may work in Ancient, Medieval or Modern European History as well as in English and American. Most subjects in the field of History, social science, literature and the humanities will be accepted as allied work provided the student's general preparation is acceptable.

Language Requirements. Two languages are required for the M.A. and for the Ph.D. degree. Preference is given to French and German and substitutions for either of these languages may be made only with the consent of the Department.

Program and Examination for the M.A. The program consists of three units of work in History or in History and an allied field. The Final Examination is written, and is usually four hours in length.

Program and Examinations for the Ph.D. All students are expected at some time to take a seminar or course in which some aspects of historiography and historical method are studied. The Preliminary Examination tests the student's competence in four general fields of History, or in three fields of History and one field in an allied subject. For example, allied work in Medieval Literature, Art or Philosophy is usually recommended to students of Medieval History and one of these may be offered in the Preliminary Examination. Students whose dissertations are in American History will be required to take at least two fields in European History. Students specializing in English History must offer at least two fields of Medieval or Modern European History for examination.

Seminars and Graduate Courses

The seminars are arranged to allow the fullest possible choice for students over a two- or three-year period of study. Normally the same seminar will not meet two years in succession. Topics listed below indicate the area in which seminars will be offered according to the needs of students.

Medieval and Renaissance History

Mr. Brand: Topics in the Middle Ages.

The Fifth and Sixth Centuries.

The Carolingians.

The Twelfth Century.
History

British History
Miss Robbins: Topics in the History of the Period 1649-1875. Each year a selected period is studied: e.g., Restoration, Revolution, Septennial Parliament, the age of Gladstone and Disraeli.

American History
Mrs. Dunn: Topics in Colonial and Early National History.
Mr. Dudden: Topics in the History of the United States. Progressivism and the New Deal.

Modern European History
[Miss Robbins: Eighteenth Century Life and Thought.]
Mrs. Lane: Topics in the History of the Twentieth Century.
[Mr. Silvera: The French Third Republic.]
Mrs. Dunn: Historical Method, Semester I.
Miss Robbins: Great Historians, Semester II.

Journal Club. Faculty and students of the Department, and occasionally members of the Departments of Economics and Political Science, meet four or five times a year to discuss research in progress, or recent books and projects, or to meet visiting scholars.

Selected Undergraduate Courses

[208. Byzantine Empire: Mr. Brand.]
301. Europe in the Twentieth Century: Mrs. Lane.
303. Recent History of the People of the United States of America: Mr. Dudden.
304. The Victorians and Edwardians: Miss Robbins.
[305. Renaissance and Reformation: Mrs. Lane.]
[306. The Enlightenment: Miss Robbins.]
307a. Age of Revolution: Mrs. Dunn.
Bryn Mawr College

History of Art

Professor:  CHARLES MITCHELL, M.A., B.LITT., Chairman
Associate Professor:  JAMES E. SNYDER, M.F.A., Ph.D.
Assistant Professors:  CHARLES G. DEMPSEY, M.F.A., Ph.D.
                    ANNE COFFIN HANSON, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 29-34)

Program for the M.A. This consists of (a) three units of graduate work, one of which may be in an allied field; (b) an extended paper on a topic chosen in consultation with the Department; (c) a Final Examination (written or written and oral) to test the candidate's ability to place the topic chosen under (b) in the general context of the history of art.

Program for the Ph.D. Prime emphasis is placed on a program of research leading to a dissertation. A Preliminary Examination in four art-historical subjects (or in three art-historical subjects and one allied subject), consisting of four written papers and an oral examination, must be satisfactorily completed.

Allied Subjects. To be determined in consultation with the Department, according to the needs of the individual research program.

Prerequisites. The normal prerequisite for admission is a training in art history, but students with special abilities, or sound training in cognate disciplines, are also admitted.

Languages. Students are expected to read or to be learning the languages necessary for their special fields of study and not to delay their research by lack of linguistic competence. Advanced study of western art-history normally involves a working knowledge of Latin, French, German and Italian.

Seminars and Graduate Courses

Mr. Mitchell:
   Problems in Iconography of the Italian Renaissance.

Mr. Snyder:
   Early Medieval Painting.
Mr. Dempsey:  
*The Carracci.*

Mrs. Hanson:  
*Problems in Connoisseurship.*

**SELECTED UNDERGRADUATE COURSES**

311a. *Gothic Painting:* Mr. Snyder.
311b. *Jan van Eyck:* Mr. Snyder.
313b. *Poussin:* Mr. Dempsey.

(Note: Undergraduate 200 courses on Medieval, Renaissance, Baroque and Modern Art are open, if modified, to graduate students.)

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**History of Religion**

**VISITING LECTURER IN HISTORY OF RELIGION:**  
MORTON S. ENSLIN, TH.D., **Chairman**

**ASSOCIATE PROFESSOR OF PHILOSOPHY:**  
JEAN A. POTTER, PH.D.

No graduate work is offered in History of Religion. The courses listed below are open to graduate students and may be taken for graduate credit with permission of the major Department.

**UNDERGRADUATE COURSES**

103. *Literary History of the Bible:* Mr. Enslin.
201b. *Early Christianity:* Mr. Enslin.

[202. *Man and His Religions.*]

204a. *Philosophy of Religion:* Miss Potter.
   This course is also listed as Philosophy 204a.

[204b. *Medieval Philosophy.*]

206b. *Apocrypha and Pseudepigrapha:* Mr. Enslin.
Italian

Professor: Appointment to be announced
Lecturer: Bernard Toscani, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 29-34)

Prerequisites. An undergraduate major or minor in Italian or its equivalent in ability to read, write and speak Italian together with a knowledge of Italian classical literature which, in the opinion of the Department, provides an adequate basis for graduate work.

Allied Subjects. Any language or literature, European History, History of Art, Philosophy, Music, Political Science; other fields of importance for the candidate’s work will be considered.

Language Requirements. French and German. In exceptional cases, determined by the special interests of the student, Latin or another language may be substituted for one of the two required languages.

Program and Examination for the M.A. Three units of work in Italian or in Italian and an allied field. The Final Examination consists of one of the following: a three-hour written examination and an oral examination of one hour, a written examination of from four to six hours, or an oral examination of not less than one hour.

Examination for the Ph.D. The Preliminary Examination consists of four written papers and an oral examination. One paper must be in the field of Provençal, preferably Provençal and Old French. One paper may be in an allied field determined by the special interests of the student. Before taking the Preliminary Examination the candidate must demonstrate proficiency in spoken Italian.

Seminars and Graduate Courses

Normally the same seminar does not meet two years in succession and is usually not repeated within a three-year period.
Latin

Old Italian.
Provençal.
Dante.
The Renaissance.
Literary Criticism.
Manzoni.
Romanticism.
Aspects of Contemporary Literature.

Selected Undergraduate Courses

201. Classics in Italian Literature.
202. Dante.
[302c. The Italian Language.]
[303. Italian Literature of the Rinascimento.]
[304. Italian Literature of the Romantic Period.]

Latin

Professor: Agnes Kirsopp Michels, Ph.D., Chairman
Associate Professor: Myra L. Uhlfelder, Ph.D.
Assistant Professors: Russell T. Scott, Ph.D.
T. Leslie Shear, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 29-34)

Prerequisites. An undergraduate major or minor in Latin, based on study in school and at least three years of college Latin, part of it in advanced courses; representative reading from Latin Literature of the classical period which, in the opinion of the Department, provides an adequate basis for graduate work. It is desirable that all graduate students in Latin should have some knowledge of Greek.
Allied Subjects. Any literature, ancient or modern, including Medieval Latin Literature; Ancient History and, for students whose major interest is Medieval Latin, Medieval History; Classical Archaeology; Linguistics. For most students the Department recommends Greek as the allied subject.

Language Requirements. French and German. In addition a reading knowledge of Greek is required for the Ph.D.

Program and Examination for the M.A. Candidates will normally offer two units of graduate work in Latin and a third unit, graduate or undergraduate, in an allied field. Before admission to the Final Examination candidates must pass an examination in Latin sight translation. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examinations for the Ph.D. Before admission to the Preliminary Examination all candidates must pass a rigorous examination in Latin sight translation. Candidates who offer Greek as an allied field must pass a rigorous examination in Greek sight translation. Candidates who do not offer Greek as an allied field must pass an examination to test their ability to read Greek at sight before they are admitted to the Final Examination. The Preliminary Examination consists of four written papers and an oral examination. Candidates whose major interest is Classical Latin are expected to offer in their Preliminary Examination Latin Literature of the classical period (Livius Andronicus to Tacitus) and, in most cases, one subsidiary field within the major—for instance a period of Roman History, Roman Religion, the History of Classical Scholarship, Epigraphy or Palaeography. In addition candidates are expected to offer an allied field (usually Greek). Candidates whose major interest is Medieval Latin are expected to show in their Preliminary Examination a broad knowledge of classical Latin Literature, but the emphasis in the examinations will be determined by the special interests of the student.
Mathematics

SEMINARS AND GRADUATE COURSES
The seminars offered are selected from the following:

Mrs. Michels:
- Augustan Poetry.
- Lucretius and Catullus.
- The Works of Vergil.
- Roman Rhetoric: Theory and Practice.
- Latin Literature of the Silver Age.
- Roman Religious Institutions.

Miss Uhlfelder:
- History of Classical Scholarship.
- Latin Palaeography and Textual Criticism.
- Literature of the Late Empire.
- Latin Literature of the Early Medieval Period.
- Latin Literature of the Twelfth Century.

Mr. Scott:
- Tacitus.
- Cicero's Correspondence.
- History and Literature of the Second Century B.C.
- The Christian Church and the Roman State.
- Ammianus Marcellinus and the Later Latin Historians.

SELECTED UNDERGRADUATE COURSES
301a. Vergil's Aeneid: Mrs. Michels.
301b. Tacitus and Livy: Mr. Scott.
[302a. Lucretius: Miss Uhlfelder.]
[302b. Cicero and Caesar: Mr. Scott.]

Mathematics

PROFESSORS:                John C. Oxtoby, M.A., Chairman
                          Marguerite Lehr, Ph.D.
ASSOCIATE PROFESSOR:       Frederic Cunningham, Jr., Ph.D.
ASSISTANT PROFESSOR:       Ethan D. Bolker, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 29-34)

Prerequisites. A good undergraduate preparation in Mathematics, or in Mathematics and Physics.
Major and Allied Subjects. Students may specialize in any of the broad divisions of Mathematics: Algebra, Analysis, Geometry, or Mathematical Physics, but are expected also to acquire a well-rounded knowledge of Mathematics. Certain courses in Physics, Chemistry or Philosophy (logic) are accepted as allied work.

Language Requirements. Candidates for the M.A. and Ph.D. must pass examinations in two of the three: French, German, Russian.

Program and Examination for the M.A. The program consists of three units of work in Mathematics, or in Mathematics and an allied field. Advanced undergraduate courses which supplement the student's preparation may under certain conditions be taken for graduate credit. The Final Examination is usually oral and one hour in length.

Program and Examinations for the Ph.D. Candidates will take such courses and seminars as are needed to provide a sufficiently broad foundation. As they progress they will devote an increasing proportion of their time to individual study and research under the direction of a member of the Department. The Preliminary Examination is taken after the student is well advanced and usually consists of three or four written examinations intended to test the candidate's breadth of knowledge and understanding of the structure of Mathematics as a whole. It may or may not include an oral examination. The Final Examination is oral and is devoted to the candidate's special field and the subject of the dissertation.

Seminars and Graduate Courses

At least three graduate courses or seminars are offered each year. Additional courses of directed reading and research can be arranged. The seminars offered in any year are selected to meet the needs of the individual students. Some may be offered for one semester only. They are usually selected from the following:

Mr. Bolker:
   Hilbert Space.
   Topological Groups.
   Banach Algebras.
Mr. Cunningham:
Functional Analysis.
General Topology.
Linear Spaces.
Theory of Functions.

Miss Lehr:
Abstract Algebra.
Differential Geometry.
Probability Theory.
Projective Spaces and Lattice Theory.

Mr. Oxtoby:
Ergodic Theory.
Measure Theory.
Point Set Topology.
Theory of Functions.

Journal Club. A joint Mathematical Colloquium with Haverford and Swarthmore Colleges and the University of Pennsylvania meets approximately every two weeks for the presentation of current research by local or visiting mathematicians.

Selected Undergraduate Courses

301. Advanced Calculus: Mr. Cunningham.
302b. Projective Geometry and Lattices: Miss Lehr.
303a. Introduction to Abstract Algebra: Mr. Bolker.
306b. Number Theory: Mr. Bolker.
[310. Theory of Functions of a Complex Variable: Mr. Oxtoby.]
311a. Differential Equations: Mr. Oxtoby.
[312. Topology: Mr. Cunningham.]
Medieval Studies

ASSOCIATE PROFESSOR OF PHILOSOPHY: Jean A. Potter, Ph.D., Chairman


PROFESSOR OF SPANISH: Joaquín González Muela, D. en F.L.

ASSOCIATE PROFESSOR OF HISTORY OF ART: James E. Snyder, Ph.D.

ASSOCIATE PROFESSOR OF LATIN: Myra L. Uhlfelder, Ph.D.

ASSISTANT PROFESSOR OF ENGLISH: Robert B. Burlin, Ph.D.¹

ASSISTANT PROFESSOR OF HISTORY: Charles M. Brand, Ph.D.

ASSISTANT PROFESSOR OF MUSIC: Isabelle Cazeaux, Ph.D.

Graduate work for the M.A. in the medieval field may be done either under a particular department or under the Medieval Studies Committee. Doctoral studies in the medieval period will usually come under the supervision of a particular department; in exceptional cases students with outstanding preparation will be permitted to take the Ph.D. in Medieval Studies.

Medieval work in a particular department will fall under the regulations of that department. For work under the Medieval Studies Committee the regulations are as follows:

Prerequisites. The Committee must be satisfied that all candidates for admission have done sufficient undergraduate work to undertake graduate studies in the medieval field and have a reading knowledge of Latin and two modern languages.

Major and Allied Subjects. Any literature, ancient, medieval or modern, History, Philosophy, Classical Archaeology, History of Art, History of Music.

Music

Language Requirements. For the M.A. and the Ph.D.: Latin, and two modern languages. Other languages may be substituted by permission of the Committee according to the candidate's special program.

Program and Examinations for the M.A. Candidates will normally work in two departments and will offer at least two units of graduate work in any of the medieval fields and a third unit in any of the fields listed as allied. An extended paper, usually growing out of the work of one of the seminars, will be required in addition to an examination. The Final Examination may be either written (four hours) or written and oral (three hours—one hour).

Program and Examinations for the Ph.D. The course of study will normally be under the guidance of one professor. Prime emphasis will be placed on a program of research leading to a dissertation. A satisfactory Preliminary Examination in two medieval fields and one allied field, written and oral, will be required.

Seminars and Graduate Courses: See under the various Departments.

Music

Professor and Director of the Chorus: Robert L. Goodale, B.Mus., A.A.G.O., Chairman

Professor and Director of Ensemble Groups: Agi Jambor, M.A.

Assistant Professor: Isabelle Cazeaux, Ph.D.

Lecturer: Arthur J. Komar, M.Mus., M.F.A.

Director of Orchestra: William H. Reese, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 29-34)

Prerequisites. Two years of Harmony, Counterpoint and Analysis, three years of History and Appreciation of Music, of which
at least one should be in an advanced course, and a reading knowledge of one modern language, preferably German. Candidates must have a sufficient knowledge of pianoforte or organ playing to be able to play music of the technical difficulty of a Bach figured chorale.


Language Requirements. Two modern languages are required for the M.A. degree, preference being given to German and French. For candidates for the Ph.D. degree two languages are required, one of which must be German.

Program and Examination for the M.A. The program consists of three units of work in Music or in Music and an allied field. The Final Examination is written and four hours in length.

Examinations for the Ph.D. The Preliminary Examination consists of four papers in the major field, or three papers in the major field and one in an allied field, and an oral examination. The Final Examination covers the subject matter of the dissertation.

SEMINARS AND GRADUATE COURSES

Miss Cazeaux:
  * Medieval and Early Renaissance Music: a Study of Style and Paleography.
  * Music of the Late Renaissance and Baroque.

Mr. Goodale:
  * Music of the Twentieth Century.
  * Theory and Analysis.

Mme Jambor:
  * The Interpretation of Music.

SELECTED UNDERGRADUATE COURSES

201b. *The Nineteenth Century, Selected Composers*: Mr. Komar.
Musical Criticism: Miss Cazeaux.

Music of the Twentieth Century: Mr. Goodale.

Opera and Music Drama: Miss Cazeaux.

Medieval and Early Renaissance Music: Miss Cazeaux.

Late Renaissance and Baroque Music: Miss Cazeaux.

Orchestration: Mr. Goodale.

Interpretation of Keyboard Music, Seventeenth Century to the Present: Mme Jambor.

Free Composition: Mr. Goodale.

Membership in the Ensemble Groups, the Orchestra and the College Chorus is open to graduate students. Participation by students in the Department is strongly urged.

Philosophy

Professors: Milton Charles Nahm, B.Litt., Ph.D., Chairman
José María Ferrater Mora, Lic.F.L.
George L. Kline, Ph.D.
Hugues Leblanc, Ph.D.
Isabel Scribner Stearns, Ph.D.

Associate Professor: Jean A. Potter, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 29-34)

Prerequisites. In general, an undergraduate major in Philosophy. Students whose undergraduate training does not include a major in Philosophy may be required to take such undergraduate courses as the Department considers necessary.

Major and Allied Subjects. Students may major in either historical or systematic branches of Philosophy. Allied subjects: another field of Philosophy and subjects in most fields of the humanities, mathematics, and natural and social sciences.

Language Requirements. French and German. In special cases, with the recommendation of the Department, a substitution may be made of one other modern language.
Program and Examination for the M.A. Three units of work in Philosophy or in Philosophy and an allied field. The Final Examination is usually written and four hours in length.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers in the major and allied fields and an oral examination.

Seminars and Graduate Courses

A minimum of three seminars, historical and systematic, is offered each year. The sequence of the seminars listed below will be adjusted according to the needs of the students.

Mr. Nahm:
Aesthetics.
A systematic and historical analysis of problems in the philosophy of art.
Ethics.
A study of Plato's and Aristotle's ethical theories.
Kant.
A study of the Critique of Judgment and the Critique of Practical Reason.

Miss Stearns:
Metaphysics.
A study of such metaphysical problems as causation, the nature of the individual, the person, reality and value.
Epistemology.
A systematic and historical study of such problems as the nature of universals, the nature of language, and the function of different agencies in knowledge.

Mr. Leblanc:
Deductive Logic.
A study of deductive logic and of some outstanding results in the syntax and semantics of deductive logic.
Inductive Logic.
A study of statistical and inductive probabilities, of current methods for testing hypotheses and making estimates, and, more generally, of induction. Prerequisite: Deductive Logic.
Meaning, Reference, and Truth.
A systematic study of problems in the philosophy of language.
Mr. Ferrater Mora:

*Foundations of Ontology.*
A systematic study of such problems as being, modes of being, existence, naming, meaning and existential presupposition.

*Phenomenology.*
The origin and development of phenomenology in Husserl and related authors.

*History of Philosophic Concepts.*
The origin and development of philosophic concepts, with particular attention to meanings and changes of meaning throughout history.

Miss Potter:

*Medieval Philosophy.*
Studies in selected problems and texts in medieval philosophical thought.

*Continental Rationalism.*
A detailed study of Descartes and Spinoza.

*Philosophy of Religion.*
A systematic study of the metaphysical and epistemological problems of theism.

Mr. Kline:

*Russian Philosophy.*
An examination of selected thinkers and schools, from the eighteenth to the mid-twentieth century. A reading knowledge of Russian would be helpful but is not required.

*Ethics.*
A close examination of classical texts in ethical theory, with some attention to twentieth-century authors.

*Whitehead.*
Journal Club. Students have the privilege of becoming auxiliary members of the Fullerton Club, which meets each month at the Deanery, and at which papers are read by visiting lecturers and by members of the faculties of Bryn Mawr, Swarthmore, Haverford and other nearby colleges, and the University of Pennsylvania.

Selected Undergraduate Courses

202a. Kant: Mr. Ferrater Mora.
202b. Recent Metaphysics: Miss Stearns.
203a. Logic: Mr. Leblanc.
207a. Hegel: Mr. Kline.
301a. Aesthetics: Mr. Nahm.
303a. Plato: Miss Stearns.
304a. Texts in Medieval Philosophy: Miss Potter.
306b. Descartes and Spinoza: Miss Potter.
309b. Theory of Knowledge: Mr. Leblanc.
311b. Aristotle: Mr. Ferrater Mora.

Physics

Professors: Walter C. Michels, Ph.D., Chairman
Rosalie C. Hoyt, Ph.D.
John R. Pruett, Ph.D.

Assistant Professor: John R. Olson, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 29-34)

Prerequisites. An undergraduate major in Physics or in a field of study closely allied to Physics (e.g. Mathematics, Chemistry, Engineering). Students who have not majored in Physics will usually find it necessary to take some undergraduate courses before entering graduate seminars. All applicants for admission to graduate work in Physics are requested to submit scores in the Graduate Record Examination.

Allied Subjects. Candidates for the degree of Doctor of Philosophy customarily offer Physics as the major subject and Mathematics as an allied subject. If a candidate’s mathematical preparation
Physics

is accepted as being adequate for the doctorate in Physics, Chemistry, Biology, or Geology may be substituted for Mathematics. Alternatively, the candidate may offer Experimental Physics or Theoretical Physics as a major subject with the other being offered as an allied subject.

Language Requirement. The two languages required for the M.A. and Ph.D. degrees will ordinarily be chosen by the student to include one each from two of the following categories: (a) German; (b) Russian; (c) French, Italian or Spanish.

Program and Examination for the M.A. An oral qualifying examination must be passed before the student is admitted to candidacy. The subject matter of the examination will include only material ordinarily covered in undergraduate college Physics courses, but the student will be expected to handle this material on a reasonably mature level.

Each candidate is expected to have completed Physics 304 or its equivalent. The three units of work offered for the degree will ordinarily include one unit of Experimental Physics and at least one graduate seminar in Theoretical Physics. The paper will usually consist of a report on work done in connection with the unit of Experimental Physics.

The M.A. examination is a one-hour oral examination.

Program and Examination for the Ph.D. Each candidate must have completed Physics 304 or its equivalent and have passed the oral qualifying examination described above before being recommended for candidacy.

The Preliminary Examination is intended to test the candidate's general background and to determine whether this background is broad and deep enough to serve as a preparation for original research work in a specialized field. In general, two years of full or part-time graduate work should prepare the student for this examination and candidates for the Ph.D. are urged to submit themselves for examination at this stage of their work. The examination will consist of three four-hour written examinations, one problem set, and an oral examination lasting approximately one hour. Each of the three four-hour examinations will cover one of the following fields of Physics, to be chosen by the Department: (1) Classical Mechanics, including relativity theory, vibrations, and wave motion; (2) Electricity and Magnetism, including field problems and electromagnetic waves, the
latter with particular reference to optical phenomena; (3) Quantum Mechanics, with applications to atomic and nuclear structure; (4) Thermodynamics and Statistical Mechanics, including both classical and quantum statistics. The student devotes approximately twelve hours to direct work on the problem set over a three-day period. Any books, periodicals, notes, etc. may be used in connection with the problem set. The oral examination is devoted to general Physics.

Unless the candidate has demonstrated adequate acquaintance with experimental physics in other ways, the research leading to the dissertation must be, at least in part, experimental.

Seminars

Three or more graduate seminars in Theoretical Physics are offered each year. In addition, a seminar in Experimental Physics is arranged individually for students desiring it, and generally serves as an introduction to a research problem.

Experimental Physics

Mr. Michels, Miss Hoyt, Mr. Pruett, Mr. Olson.

Theoretical Physics

Mr. Olson:

1966-7: Electromagnetic Theory. Maxwell’s Equations, applications to waves subject to various boundary conditions, transmission lines, wave guides, radiating systems. Prerequisite: An advanced undergraduate course in Electricity and Magnetism or in Theoretical Physics.

Mr. Pruett:

1966-7: Quantum Mechanics. Necessity for the quantum hypothesis. The Schroedinger and Heisenberg formulations with applications to atomic structure. The Dirac approach with applications to relativistic electron theory and the quantum theory of radiation. Prerequisite: An advanced undergraduate course in Mechanics or in Theoretical Physics.
At least one of the following advanced seminars is given each year.

Miss Hoyt:

*Chemical Physics.* Chemical and phase equilibria, interatomic and intermolecular forces, chemical bonding, molecular structure. Prerequisite: Quantum Mechanics.

Mr. Michels:

*Physics of the Solid State.* Classification and characteristics of solids, theory of mechanical, electrical, thermal, and magnetic properties. Prerequisites: Quantum Mechanics and Electromagnetic Theory. Either may be taken concurrently.

Mr. Pruett:

*Nuclear Physics.* An introductory study of classical nuclear physics followed by applications of quantum mechanics to nuclear problems and associated high energy phenomena. Some quantum electrodynamics and meson theory will be included: Prerequisite: Quantum Mechanics or its equivalent.

Colloquium. All members of the Department and all graduate students meet weekly for the discussion of current problems.

**Selected Undergraduate Courses**

- **201a.** *Electricity and Magnetism*: Miss Hoyt.
- **202b.** *Optics*: Mr. Pruett.
- **301a.** *Classical Mechanics*: Mr. Olson.
- **302b.** *Atomic and Nuclear Physics*: Mr. Michels, Mr. Pruett.
- **303b.** *Thermal Properties of Matter*: Mr. Michels.
- **304.** *Introduction to Theoretical Physics*: Mr. Michels.
- **351.** *Application of Physics to Biology and Chemistry*: Miss Hoyt.
Political Science

The Caroline McCormick Slade Department of Political Science

Professors: Peter Bachrach, Ph.D., Chairman
            Gertrude C. K. Leighton, A.B., LL.B.¹

Associate Professor: Melville T. Kennedy, Jr., Ph.D.

Assistant Professor: Charles E. Frye, Ph.D.²

Visiting Lecturers: William G. Grigsby, Ph.D.
                    Erik Hoffmann, Ph.D.
                    H. Hubert Wilson, Ph.D.

Dean of the College: Dorothy Nepper Marshall, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 29-34)

Prerequisites. Good undergraduate training in Political Science and related subjects.

Major and Allied Fields. The major fields in Political Science are Political Philosophy and Theory, Western Comparative Politics, Non-Western Comparative Politics, American Political Process, American Constitutional Law and International Politics and Law. Allied fields may be chosen in the other Social Sciences, in History and Philosophy, and, with the special permission of the Department, in certain subjects in Literature. Candidates for the Ph.D. are expected to prepare themselves in four fields, one of which may be allied.

Language Requirements. Two modern languages.

Program and Examination for the M.A. The program consists of three units of work in Political Science, but a unit from an allied field may be substituted for one of these. The Final Examination is written.

Program and Examination for the Ph.D. Candidates are expected to offer four fields, one of them being the field in which

the dissertation is done. The other three fields are tested by preliminary written and oral examinations. The fourth field and the dissertation are covered in the Final Oral Examination.

**SEMINARS**

Mr. Bachrach:

*American Constitutional Law.*

*Topics in Political Theory.*

Miss Leighton:

*World Community and Law.*

Mr. Kennedy:

*Problems in Asian International Relations.*

*Topics in Chinese Political and Social Development, from 1911 to 1949.*

Mr. Frye:

*[European Comparative Politics.]*

**Journal Club.** Students are expected to attend the Journal Club. This meets from time to time during the year to discuss research in progress, recent books and other topics of scholarly interest.

**SELECTED UNDERGRADUATE COURSES**

301b. *Law and Society:* Miss Leighton.

302b. *Law, Policy and Personality:* Miss Leighton.

303a. *Problems in International Politics:* Mr. Kennedy.

304b. *West European Integration:* Mr. Frye.


309b. *Selected Topics in Modern Political Thought:* Mr. Frye.

311a. *International Law:* Miss Leighton.

312b. *China and Japan: 1840 to the Present:* Mr. Kennedy.


314a. *Methodology in Political Science:* Mr. Frye.


**Psychology**

**Professors:**
- Morton Edward Bitterman, Ph.D., Chairman
- Rachel Dunaway Cox, Ph.D.

**Associate Professors:**
- Robert Simon Davidon, Ph.D.
- Richard Charles Gonzalez, Ph.D.

**Assistant Professors:**
- Anne Constantinople, Ph.D.
- Earl Thomas, Ph.D.

**Lecturers:**
- Erika Rossman Behrend, M.A.
- Irena Lukaszewska-Bulat, Ph.D.

**Special Requirements for Graduate Work**
(for the general requirements, see pp. 29-34)

**Prerequisites.** Undergraduate training in Psychology is recommended, but outstanding applicants with training only in related fields may be accepted. Students who have not majored in Psychology as undergraduates may find it necessary to devote a substantial portion of the first year to undergraduate courses. All applicants residing in the United States at the time of the application must submit a score on the Miller Analogies Test and on the Graduate Record Examination.

**Major and Allied Subjects.** The orientation in the various fields is experimental, and there are no facilities for clinical training. Work in Psychology may be coordinated with work in one of the following allied areas: Anthropology, Biology, Mathematics, Philosophy, Political Science, Physics and Sociology. Students interested primarily in Child Psychology normally major in Education and Child Development.

**Language Requirements.** Candidates for the M.A. must pass an examination in one of the following languages: French, German, Russian. (Only one language is necessary because of the requirement in Statistics.) Candidates for the Ph.D. must pass examinations in two of the three languages. In special cases, Italian or Spanish may be offered as one of the two languages.

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Program and Examinations for the M.A. The program of work must include three units (six one-semester seminars or courses), which usually will be chosen from the group of seminars and courses listed below. Sometime before final approval of the Master's paper, each candidate must pass a written examination in Statistics. The Final Oral Examination, one hour in length, deals with the Master's paper and related topics.

Program and Examination for the Ph.D. Candidates are expected to devote a large portion of their time to supervised research. Each must pass a written examination in Statistics. The Preliminary Examination consists of written papers in four of the areas listed below under the heading of Graduate Seminars, or, with the approval of the Department, in three of those areas and in one of the allied subjects listed above. The Final Oral Examination deals with the dissertation and the field in which it was written.

Graduate Seminars

Seminars are offered in the following six areas:

Animal Learning.
Human Learning and Thinking.
Sensation and Perception.
Personality.
Physiological Psychology.
Social Psychology.

Statistics (Graduate Course)

Selected Undergraduate Courses

[202b. Psychological Measurement: Mr. Davidon.]
203b. Human Learning and Thinking: Mr. Gonzalez.
204a. Experimental Methods and Statistics: Mrs. Behrend.
205a. Sensation and Perception: Mr. Thomas.
301b. Physiological Psychology: Mr. Thomas.
302a. Psychology of the Normal Personality:
Miss Constantinople.
303a. Animal Learning: Mr. Bitterman.
304b. Psychology of the Abnormal Personality: Mrs. Cox.
Russian

Professor:  Frances de Graaff, Ph.D., Chairman
Assistant Professors:  Irene Nagurski, Ph.D.
                      Ruth C. Pearce, Ph.D.

Professor of Philosophy:  George L. Kline, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 29-34)

Prerequisites. An undergraduate major or minor in Russian with knowledge of Russian Literature and ability to read and speak Russian.

Allied Subjects. Any language or literature, European History, Political Science.

Language Requirements. French and German. In special cases the Department may accept other languages.

Program and Examination for the M.A. Three units of work in Russian or in Russian and an allied field. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

Examination for the Ph.D. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination.

Seminars

Seminars offered are selected from the following:

Miss de Graaff:
  Serbo-Croatian Language and Literature.
  Pushkin and Lermontov.
  The Russian Drama.

Miss Nagurski:
  Polish Language and Literature.
  Tolstoy and Dostoevsky.

Mrs. Pearce:
  History of the Russian Language.
  Old Church Slavonic.

Mr. Kline:
  Russian Philosophy.

Social Work and Social Research

Selected Undergraduate Courses

201. Readings in Russian Literature: Miss Nagurski.
302. Pushkin and His Time: Miss de Graaff.

[303. Russian Literature of the Twentieth Century.]

43-44. (Haverford College) History of Russia: Mrs. Gerstein.

Social Work and Social Research

The Carola Woerishoffer Graduate Department
of Social Work and Social Research

Professors: Katherine D. K. Lower, Ph.D.,
Director of the Department
Bernard Ross, Ph.D.¹

Associate Professors: Jean Haring, D.S.W.
Philip Lichtenberg, Ph.D.
Jeanne Pollock, M.S.W.
Kurt Reichert, Ph.D.
Martin Rein, Ph.D.²

Assistant Professors: Merle Broberg, M.S.S.
Jane Collier Kronick, Ph.D.
William W. Vosburgh, Ph.D.
Greta Zybon, D.S.W.

Lecturers: Patricia Millar Burland, M.S.S.
Ruth O. Stallfort, M.S.

Instructors: Elizabeth L. Pinner, Ph.D.
Edmund Sherman, M.S.S.

Professor of Education
and Psychology: Rachel D. Cox, Ph.D.

Professor of Sociology: Eugene V. Schneider, Ph.D.

Special Requirements for Graduate Work
(for the general requirements, see pp. 29-34)

The degrees of Doctor of Philosophy and Master of Social Service are awarded in the Department. The program for the degree of Master of Social Service is described on page 33. The statement here refers to the Ph.D. in Social Work and Social Research. For full information, including courses offered, write for the Bulletin of the Department, to the Director, 815 New Gulph Road, Bryn Mawr, Pennsylvania 19010.

The curriculum for the Ph.D. degree includes the following areas of study: Social Welfare, Theory in Social Work Practice, Social and Behavioral Sciences, and Social Research.

Preparation in these four areas is implemented through required courses, accounting for about one half of the program; through electives that are considered pertinent to individual interests, which may be taken in other departments within the College, or at other colleges or universities, and through special experiences that are directed toward specific career goals, including teaching and research assistantships. Candidates select a major field within one of the four areas of the curriculum and allied fields from the other areas. Qualified students participate in research under the direction of members of the faculty.

Prerequisites. Applicants for the Ph.D. are expected to hold a Master's degree from an accredited school of social work. Successful experience in social work practice after this degree is valued but in certain situations may not be required.

Language Requirement. A reading knowledge of one modern foreign language is required. The preferred language is French but in special cases, with the approval of the Department, another language may be substituted.

Program and Examinations. The program of study is individually planned to cover major and allied fields. Two academic years of full-time study encompassing fourteen semester courses will normally be suggested. The Preliminary Examination in major and allied fields consists of four written papers and an oral examination testing the candidate's general knowledge of the fields. The Final Examination which is oral is devoted to the subject of the dissertation.
Special Requirements for Graduate Work
(for the general requirements, see pp. 29-34)

Prerequisites. A good undergraduate preparation in Sociology, or some closely related social science is desirable. Students whose undergraduate training is not entirely adequate may be required to take certain undergraduate courses. Advanced undergraduate courses can usually be taken for graduate credit.

Major and Allied Subjects. Students will be expected to take some work in allied fields—Anthropology, Economics, Psychology, Political Science, Philosophy, History and Statistics. In addition courses in Sociology and allied subjects may be taken at the University of Pennsylvania under the terms of the Reciprocal Plan (see page 28).

Language and Statistics Requirements. Candidates for the M.A. must offer one modern language and Statistics. Candidates for the Ph.D. must offer two languages; these will be German and French, except in special cases.

Program and Examination for the M.A. The program consists of three units of work. The Final Examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

Program and Examinations for the Ph.D. All students are expected to have had, or to take, at least one year’s graduate work at another institution approved by the Department, except in special cases (see page 28). The program consists of six units of work, some of which may be in the form of supervised research and dissertation supervision.

The Preliminary Examination for candidates for the Ph.D. will consist of four three-hour written papers and an oral examination of one hour. These examinations will be in (1) Sociological Theory, (2) Comparative Social Institutions, (3) an allied field, for instance in Anthropology, Social Psychology, Economics,
Political Science, History, (4) a specialized subject within the field of Sociology. In addition, the student will be expected to be familiar with Statistics and the methods of Social Research.

**SEMINARS AND GRADUATE COURSES**

Two seminars a year will be given in special branches of Sociology such as:

- Sociological Theory
- Complex Social Institutions
- Sociology of Knowledge
- Industrial Sociology
- Political Sociology

**SELECTED UNDERGRADUATE COURSES**

205b. Social Stratification: Mrs. Porter.
207a. Race Relations: Mrs. Porter.
302a. Social Theory: Mr. Schneider.

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**Spanish**

**Professor:** Joaquín González Muela, D. en F.L.

**Associate Professor:** Willard Fahrenkamp King, Ph.D., Chairman

**Assistant Professor:** Phyllis Turnbull, D. en F.L.

**Visiting Lecturer:** Edmund L. King, Ph.D.

**Lecturer:** Eleanor Krane Paucker, Ph.D.

**Dean of the College:** Dorothy Nepper Marshall, Ph.D.

**Professor of Philosophy:** José María Ferrater Mora, Lic. F.L.

**Special Requirements for Graduate Work**

(for the general requirements, see pp. 29-34)

**Prerequisites.** An undergraduate major in Spanish; representative reading from Spanish Literature of the Middle Ages, Golden Age and Contemporary Period. Spanish-American Literature may be offered in addition. Applicants for admission in Spanish are asked to submit scores in the Graduate Record Examination.

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Allied Subjects. Any literature, ancient or modern, including Medieval Latin Literature; European or Spanish-American History; Classical or Romance Philology.

Language Requirements. For the M.A. two Romance languages other than Spanish, or one Romance language and German. For the Ph.D. German and French; in special cases the Department may accept other languages. The Ph.D. candidate's preparation must give evidence of adequate knowledge of Latin; if it does not, Latin will have to be included in the graduate program.

Program and Examination for the M.A. The program consists of two units of graduate work in Spanish and a third unit, graduate or undergraduate, in an allied field. Before admission to the Final Examination candidates must prove their ability to speak Spanish. The Final Examination consists of a three-hour written part and an oral of one hour.

Examinations for the Ph.D. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination. Suitable related fields should be discussed with the member of the Department with whom the candidate plans to work on the dissertation.

Seminars and Graduate Courses

The seminars are arranged to allow the widest possible choice for students over a two- or three-year period of study. Normally the same seminar will not be given two years in succession. Two from among the following will be given every year.

Members of the Department.

Ideological Currents in Renaissance Spain.
   Platonism, Mysticism, Erasmism, and the Counter-Reformation.

The History of the Spanish Language.

The Medieval Castilian Epic and Lyric.

Prose Fiction of the Golden Age.
   From La Celestina to El Criticon.
The Poetry of the Golden Age.
The evolution of Spanish poetry from Garcilaso to Góngora.

Problems in the Golden Age Theater.

Studies in Modern Spanish Literature.
Semester I: The Drama from Romanticism to the Present.
Semester II: The Essay from 1898 to the Present.

Selected Undergraduate Courses

[302a. Medieval Spanish Literature: Miss Turnbull.]
[303a. Modern Novel in Spain: Mrs. King.]
[303b. Modern Spanish Poetry: Mr. González Muela.]
304a. The Age of Cervantes: Mr. González Muela.
304b. Drama of the Golden Age: Mrs. King.
How to Get to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

**By air:** From the Philadelphia International Airport take the airport limousine to Philadelphia and the Paoli Local to Bryn Mawr or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.

**By automobile:** From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43—Interstate #76), turning right at the exit marked “Ardmore-Chester” on to Pa. 23, which is 3.5 miles east of the toll gate; continue into Alternate #23 (Montgomery Avenue) to the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues, continue for one block, then turn left again to Yarrow Street which leads directly to the campus.

**By bus:** All Greyhound buses arrive at the Philadelphia terminal at 17th and Market Streets, adjoining Suburban Station. Trailways buses arrive at 13th and Arch Streets, three blocks from Suburban Station. Take the Paoli Local from Suburban Station to Bryn Mawr.

**By railroad:** Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

**To walk** to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.
BRYN MAWR
COLLEGE CALENDAR

undergraduate courses

1966 / 1967
Bryn Mawr College Calendar

UNDERGRADUATE COURSES

ISSUE FOR THE SESSION OF 1966/1967

AUGUST 1966

Volume LIX Number 3
VISITORS to the College are welcome, and when the College is in session student guides are available to show visitors the campus. Appointments for interviews and for campus tours should be made in advance by letter or by telephone. The College offices are open Monday through Friday from nine until five and on Saturdays from nine until one. From mid-June until after mid-September the offices are closed on Saturdays.

CORRESPONDENCE

The Post Office address is Bryn Mawr College, Bryn Mawr, Pennsylvania 19010.

Correspondence regarding the following subjects should be addressed to:

The President
  General interests of the College

The Dean
  Academic work, personal welfare and health of the students

The Director of Admissions
  Admission to the Undergraduate School and entrance scholarships

The Dean of the Graduate School
  Admission to the Graduate School and graduate scholarships

The Director of Halls
  Rooms in the halls of residence

The Comptroller
  Payment of bills

The Director of the Bureau of Recommendations
  Recommendations for positions and inquiries regarding students' self-help

The Alumnae Secretary
  Regional scholarships and loan fund

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Academic Schedule
1966/1967

1966

First Semester

September 15. Halls of residence open to entering class at 8 A.M. Registration of entering undergraduate students

September 17. Halls of residence open to returning undergraduates at 8 P.M.

September 18. Enrollment of returning undergraduate students

September 19. Work of the 82nd academic year begins at 9 A.M.

September 21. Registration period for graduate student ends

October 8. French examinations for undergraduates

October 15. Greek, Latin and Russian examinations for undergraduates

October 22. German examinations for undergraduates
   Italian, Spanish, Russian and Statistics examinations for graduate students

October 29. Italian and Spanish examinations for undergraduates
   French examinations for graduate students

November 5. Mathematics examinations for undergraduates
   German examinations for graduate students

November 9. Hygiene examination at 7:30 P.M.

November 23. Thanksgiving holiday begins after last class

November 28. Thanksgiving holiday ends at 9 A.M.

December 16. Christmas vacation begins at 12:45 P.M.

1967

January 4. Christmas vacation ends at 9 A.M.

January 7. French, Italian and Spanish examinations for Seniors conditioned
   Italian, Russian, Spanish and Statistics examinations for graduate students

January 10. Last day of lectures
Academic Schedule

January 11-14. Review Period
January 14. Greek, Latin and Russian examinations for Seniors conditioned
German examinations for graduate students
January 16. College examinations begin
January 21. German examinations for Seniors conditioned
French examinations for graduate students
January 25. College examinations end
Registration period for graduate students begins
January 26-29. Intersession

Second Semester
January 30. Work of the second semester begins at 9 A.M.
February 1. Registration period for graduate students ends
March 18. Mathematics examinations for undergraduates
March 23. Spring vacation begins after last class
April 3. Spring vacation ends at 9 A.M.
Deferred examinations begin
April 8. Deferred examinations end
German examinations for undergraduates
Italian, Russian and Spanish examinations for graduate students
Statistics examinations for graduate students
April 15. Greek, Latin and Russian examinations for undergraduates
French examinations for graduate students
April 22. French examinations for undergraduates
German examinations for graduate students
April 28-30. Geology Field Trip
May 6. Italian and Spanish examinations for undergraduates
May 12. Last day of lectures
May 15. College examinations begin
May 26. College examinations end
May 29. Conferring of degrees and close of 82nd academic year
June 3. Alumnae Day
The Trustees of Bryn Mawr College

J. Edgar Rhoads, President

Millicent Carey McIntosh¹  Elizabeth Gray Vining²

Vice-Presidents

John E. Forsythe  Millicent Carey McIntosh¹
Treasurer  Secretary

J. Tyson Stokes  Katharine Budd Whelihan³
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John S. Price

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Eleanor Little Aldrich⁶  Elizabeth Gray Vining²

Vice-Chairmen

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Treasurer  Secretary

J. Tyson Stokes  Katharine Budd Whelihan³
Assistant Treasurer  Assistant Secretary

Directors

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J. Edgar Rhoads  Phyllis Goodhart Gordan⁶
C. Canby Balderston  Alice Palache Jones⁷
Elizabeth Gray Vining²  Agnes Clement Ingersoll⁸
Henry Joel Cadbury  Lewis N. Lukens
John E. Forsythe  Mary Hale Chase⁹
John S. Price  Alumnae Director, 1961–6
Allen McKay Terrell  Elizabeth Curran Warren¹⁰
Amos Jenkins Peaslee  Alumnae Director, 1962–7
Jonathan E. Rhoads  Mary Durfee Brown¹¹
James Wood  Alumnae Director, 1963–8
Lelia Woodruff Stokes⁴  Anne Woodward Pusey¹²
Edmund B. Spaeth, Jr.  Alumnae Director, 1964–9
Katharine Elizabeth McBride  Elizabeth Pearson Horrocks¹³
Eleanor Little Aldrich⁶  Alumnae Director, 1965–70
Barbara Auchincloss Thacher  Margaret Tyler Paul¹⁴
by invitation¹⁵

President of the Alumnae Association
Standing Committees of the Board of Directors for 1966

Executive Committee
Mr. Rhoads, Chairman
Mr. Cadbury, ex officio
Mrs. Aldrich
Mrs. Chase
Mr. Forsythe
Mrs. Gordan
Miss McBride
Mrs. McIntosh
Mr. Stokes

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Library Committee
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Mrs. Aldrich
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Miss McBride
Mrs. Pusey
Mrs. Stokes
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12. Mrs. Nathan M. Pusey
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14. Mrs. Samuel H. Paul
15. Mrs. Thomas Thacher
Bryn Mawr College Faculty and Staff

FOR THE ACADEMIC YEAR, 1966/1967

Katharine Elizabeth McBride, Ph.D. (Bryn Mawr College), LL.D., L.H.D., Sc.D., President of the College

Dorothy Nepper Marshall, Ph.D. (Bryn Mawr College), Dean of the College

Elizabeth Read Foster, Ph.D. (Yale University), Dean of the Graduate School

Elizabeth G. Vermeiy, M.A. (Wesleyan University), Director of Admissions

Janet Margaret Agnew, B.L.S. (McGill University), M.A. (University of Manitoba), Head Librarian

Irene A. Clayton, M.S. (University of Wisconsin), Director of Physical Education

Pearl S. Pitt, M.D. (Columbia University, College of Physicians and Surgeons), College Physician

Horace Alwyn, F.R.M.C.M. (Royal Manchester College of Music), Professor Emeritus of Music

Eleanor A. Bliss, Sc.D. (Johns Hopkins University), Sc.D., Dean Emeritus

Rhys Carpenter, Ph.D. (Columbia University), Litt.D., Professor Emeritus of Classical Archaeology

Grace Mead Andrus de Laguna, Ph.D. (Cornell University), Professor Emeritus of Philosophy

Max Diez, Ph.D. (University of Texas), Professor Emeritus of German Literature

Charles Ghequiere Fenwick, Ph.D. (Johns Hopkins University), LL.D., Professor Emeritus of Political Science

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Mary Summerfield Gardiner, Ph.D. (Bryn Mawr College), Professor Emeritus of Biology

Faculty and Staff

STEPHEN JOSEPH HERBEN, B.LITT., Ph.D. (Princeton University), Professor Emeritus of English Philology
MYRA RICHARDS JESSEN, Ph.D. (Bryn Mawr College), Professor Emeritus of German
ANGELINE HELEN LOGRASSO, Ph.D. (Radcliffe College), Professor Emeritus of Italian
HELEN TAFT MANNING, Ph.D. (Yale University), LL.D., Professor Emeritus of History
CORNELIA LYNDE MEIGS, A.B. (Bryn Mawr College), Professor Emeritus of Germanic Philology
FRITZ MEZGER, Ph.D. (University of Berlin), Professor Emeritus of English Composition
ARTHUR COLBY SPRAGUE, Ph.D. (Harvard University), Professor Emeritus of English Literature
MARY HAMILTON SWINDLER, Ph.D. (Bryn Mawr College), LL.D., Professor Emeritus of Classical Archaeology
LILY ROSS TAYLOR, Ph.D. (Bryn Mawr College), LITT.D., Professor Emeritus of Latin
ROGER HEWES WELLS, Ph.D. (Harvard University), Professor Emeritus of Political Science
DOROTHY WYCKOFF, Ph.D. (Bryn Mawr College), Professor Emeritus of Geology

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PETER BACHRACH, Ph.D. (Harvard University), Professor of Political Science
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WARNER B. BERTHOFF, Ph.D. (Harvard University), Professor of English
MORTON EDWARD BITTERMANN, Ph.D. (Cornell University), Professor of Psychology

Rachel Dunaway Cox, Ph.D. (University of Pennsylvania), Professor of Education and Psychology

Frances de Graaff, Ph.D. (University of Leyden), Professor of Russian

Frederica de Laguna, Ph.D. (Columbia University), Professor of Anthropology

Lincoln Dryden, Ph.D. (Johns Hopkins University), Professor of Geology

Arthur P. Dudden, Ph.D. (University of Michigan), Professor of History

José María Ferrater Mora, Licenciado en Filosofía (University of Barcelona), Professor of Philosophy

Joaquín González Muela, D. en F.L. (University of Madrid), Professor of Spanish

Robert L. Goodale, B.Mus. (Yale University), A.A.G.O., Alice Carter Dickman Professor of Music

Rosalie C. Hoyt, Ph.D. (Bryn Mawr College), Professor of Physics

Joshua C. Hubbard, Ph.D. (Harvard University), Professor of Economics

Agi Jambor, M.A. (Royal Academy of Budapest), Professor of Music and Director of Ensemble Groups

Mabel Louise Lang, Ph.D. (Bryn Mawr College), Professor of Greek

Richmond Lattimore, Ph.D. (University of Illinois), Litt.D., Paul Shorey Professor of Greek

Hugues Leblanc, Ph.D. (Harvard University), Professor of Philosophy

Marguerite Lehr, Ph.D. (Bryn Mawr College), Professor of Mathematics

Gertrude C. K. Leighton, A.B. (Bryn Mawr College), LL.B (Yale University), Professor of Political Science

Katherine D. K. Lower, Ph.D. (University of Wisconsin), Professor of Social Work and Social Research

Mario Maurin, Ph.D. (Yale University), Professor of French

Machteld Johanna Mellink, Ph.D. (University of Utrecht), Professor of Classical and Near Eastern Archaeology

Agnes Kirsopp Lake Michels, Ph.D. (Bryn Mawr College), Professor of Latin

Walter C. Michels, Ph.D. (California Institute of Technology), Marion Reilly Professor of Physics

Charles Mitchell, M.A., B.Litt. (Oxford University), Richard M. Bernheimer Professor of History of Art

Milton Charles Nahm, B.Litt., Ph.D. (University of Pennsylvania), Professor of Philosophy

Jane Marion Oppenheimer, Ph.D. (Yale University), Class of 1897 Professor of Biology

John C. Oxtoby, M.A. (University of California), Professor of Mathematics

John R. Pruett, Ph.D. (Indiana University), Professor of Physics

William J. Roach, Ph.D. (University of Chicago), Visiting Professor of Old French

Caroline Robbins, Ph.D. (University of London), Marjorie Walter Goodhart Professor of History

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K. Laurence Stapleton, A.B. (Smith College), Mary E. Garrett Alumnae Professor of English Literature

Isabel Scribner Stearns, Ph.D. (Bryn Mawr College), Professor of Philosophy

Edward H. Watson, Ph.D. (Johns Hopkins University), Professor of Geology

Mary Katharine Woodworth, Ph.D. (Bryn Mawr College), Professor of English

George L. Zimmerman, Ph.D. (University of Chicago), Professor of Chemistry

Robert L. Conner, Ph.D. (Indiana University), Associate Professor and Professor-elect of Biology

George L. Kline, Ph.D. (Columbia University), Associate Professor and Professor-elect of Philosophy

Isabel Gamble MacCaffrey, Ph.D. (Radcliffe College), Associate Professor and Professor-elect of English

Robert Butman, M.A. (University of North Carolina), Associate Professor of English on the Theresa Helburn Fund and Director of the Theatre, on joint appointment with Haverford

Frederic Cunningham, Jr., Ph.D. (Harvard University), Associate Professor of Mathematics

Robert Simon Davidon, Ph.D. (University of Pennsylvania), Associate Professor of Psychology

Richard C. Gonzalez, Ph.D. (University of Maryland), Associate Professor of Psychology

Michel Guggenheim, Ph.D. (Yale University), Associate Professor of French

Jean D. Haring, D.S.W. (Western Reserve University), Associate Professor of Social Work and Social Research

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Philip Lichtenberg, Ph.D. (Western Reserve University), Associate Professor of Social Research

Frank Bryant Mallory, Ph.D. (California Institute of Technology), Associate Professor of Chemistry

Jeanne C. Pollock, M.S.W. (University of Pennsylvania School of Social Work), Associate Professor of Social Work

Jean A. Potter, Ph.D. (Yale University), Associate Professor of Philosophy

Kurt Reichert, Ph.D. (University of Minnesota), Associate Professor of Social Work and Social Research

Martin Rein, Ph.D. (Brandeis University), Associate Professor of Social Work and Social Research

Hugo Schmidt, Ph.D. (Columbia University), Associate Professor of German

James E. Snyder, Ph.D. (Princeton University), Associate Professor of History of Art

Myra L. Uhlfelder, Ph.D. (Bryn Mawr College), Associate Professor of Latin

Joseph Varimbi, Ph.D. (University of Pennsylvania), Associate Professor of Chemistry

Susan E. Maxfield, M.S. (Yale University), Associate Professor-elect of Education and Child Development, and Director of the Phebe Anna Thorne School

Kurt Bittel, Ph.D., President of German Archaeological Institute

Mary Flexner Visiting Lecturer in Archaeology

Jay Martin Anderson, Ph.D. (Harvard University), Assistant Professor of Chemistry

Audrey Barnett, Ph.D. (Indiana University), Assistant Professor of Biology

Ethan D. Bolker, Ph.D. (Harvard University), Assistant Professor of Mathematics

Charles M. Brand, Ph.D. (Harvard University), Assistant Professor of History

Robert B. Burlin, Ph.D. (Yale University), Assistant Professor of English

Anne Constantinople, Ph.D. (University of Rochester), Assistant Professor of Psychology

Maria Luisa B. Crawford, Ph.D. (University of California), Assistant Professor of Geology

William A. Crawford, Ph.D. (University of California), Assistant Professor of Geology

Charles G. Dempsey, Ph.D. (Princeton University), Assistant Professor of History of Art
Richard B. Du Boff, Ph.D. (University of Pennsylvania), Assistant Professor of Economics
Mary Maples Dunn, Ph.D. (Bryn Mawr College), Assistant Professor of History
Charles E. Frye, Ph.D. (Princeton University), Assistant Professor of Political Science
Jane C. Goodale, Ph.D. (University of Pennsylvania), Assistant Professor of Anthropology
Anne Coffin Hanson, Ph.D. (Bryn Mawr College), Assistant Professor of History
William G. Hopkins, Ph.D. (Indiana University), Assistant Professor of Biology
M. Pauline Jones, Ph.D. (Bryn Mawr College), Assistant Professor of French
Jane Collier Kronick, Ph.D. (Yale University), Assistant Professor of Social Work and Social Research
Barbara Miller Lane, Ph.D. (Harvard University), Assistant Professor of History
Eleanor Winsor Leach, Ph.D. (Yale University), Assistant Professor of English
Peter J. Leach, M.F.A. (Yale University), Assistant Professor of English
Ethel W. Maw, Ph.D. (University of Pennsylvania), Assistant Professor of Education and Child Development
Irene Nagurski, Ph.D. (Columbia University), Assistant Professor of Russian
David P. Nowlis, Ph.D. (Harvard University), Assistant Professor of Education and Child Development
Ruth C. Pearce, Ph.D. (University of Pennsylvania), Assistant Professor of Russian
Kyle M. Phillips, Jr., Ph.D. (Princeton University), Assistant Professor of Classical and Near Eastern Archaeology

Faculty and Staff 15

Brunilde Sismondo Ridgway, Ph.D. (Bryn Mawr College), Assistant Professor of Classical and Near Eastern Archaeology

Catherine Rodgers, Ph.D. (Brown University), Assistant Professor of English

Alain Silvera, Ph.D. (Harvard University), Assistant Professor of History

Earl Thomas, Ph.D. (Yale University), Assistant Professor of Psychology

George Treyz, A.B. (Princeton University), Assistant Professor of Economics on joint appointment with Haverford College

Phyllis Turnbull, D. en F.L. (University of Madrid), Assistant Professor of Spanish and Adviser to Foreign Students

William W. Vosburgh, Ph.D. (Yale University), Assistant Professor of Social Work and Social Research

Greta Zybon, D.S.W. (Western Reserve University), Assistant Professor of Social Work and Social Research

Herbert L. Alexander, Jr., M.A. (Yale University), Lecturer and Assistant Professor-elect of Anthropology

Merle Broberg, M.S.S. (Bryn Mawr College), Assistant Professor-elect of Social Work and Social Research

Isabelle Cazeaux, Ph.D. (Columbia University), Lecturer and Assistant Professor-elect of Music

Nancy C. Dorian, Ph.D. (University of Michigan), Lecturer and Assistant Professor-elect of German

Ellen Ginsberg, Ph.D. (University of Chicago), Instructor and Assistant Professor-elect of French

John R. Olson, Ph.D. (Iowa State University), Lecturer and Assistant Professor-elect of Physics

Robert L. Patten, Ph.D. (Princeton University), Lecturer and Assistant Professor-elect of English

Russell T. Scott, Ph.D. (Yale University), Assistant Professor-elect of Latin

T. Leslie Shear, Ph.D. (Princeton University), Instructor and Assistant Professor-elect of Greek and Latin

ERlKA ROSSMAN BEHREND, M.A. (University of Pennsylvania), Part-time Lecturer and Research Associate in Psychology
FRANCES BONDBUS BERLINER, PH.D. (Bryn Mawr College), Part-time Lecturer in Chemistry
ELIDE PIRONTI BUFFINGTON, M.A. (University of Naples), Part-time Lecturer in Italian
PATRICIA MILLAR BURLAND, M.S.S. (Bryn Mawr College), Part-time Lecturer in Social Work and Social Research
MARLIS CAMBON, Staatsexamen (Johannes Gutenberg University), Part-time Lecturer in German
DAVID Y. COOPER, M.D. (University of Pennsylvania School of Medicine), Visiting Lecturer in Biology
MORTON S. ENSLIN, TH.D. (Harvard University), D.D., Visiting Lecturer in History of Religion
WILLIAM G. GRIGSBY, PH.D. (Columbia University), Visiting Lecturer in Political Science, Semester II
A. IRVING HALLOWELL, PH.D. (University of Pennsylvania), Visiting Lecturer in Anthropology, Semester II
ERIK HOFFMANN, PH.D. (Indiana University), Visiting Lecturer in Political Science, Semester II
EDWARD B. IRVING, JR., PH.D. (Yale University), Visiting Lecturer in English, Semester I
EDMUND L. KING, PH.D. (University of Texas), Visiting Lecturer in Spanish, Semester I
JOAN L. KLEIN, PH.D. (Radcliffe College), Part-time Lecturer in English
ARTHUR J. KOMAR, M.MUS., M.F.A. (Yale School of Music), Part-time Lecturer in Music
IRENE LUKAZIEWSKA-BULAT, PH.D. (Polish Academy of Science), Lecturer in Psychology, Semester I
JERRE MANGIONE (University of Pennsylvania), Visiting Lecturer in English
JANE R. MCCONNELL, PH.D. (Bryn Mawr College), Part-time Lecturer in Biology
ELEANOR KRANE PAUCKER, PH.D. (University of Pennsylvania), Lecturer in Spanish, Semester I
JUDITH R. PORTER, M.A. (Cornell University), Lecturer in Sociology
Faculty and Staff

Marvin Rosen, Ph.D. (University of Pennsylvania), Visiting Lecturer in Education and Child Development

Ruth O. Stallfort, M.S. (Simmons College School of Social Work), Part-time Lecturer in Social Work and Social Research

Bernard Toscani, Ph.D. (University of Pennsylvania), Lecturer in Italian

Werner Vordtriede, Ph.D. (Northwestern University), Lecturer in German, Semester I

H. Hubert Wilson, Ph.D. (University of Wisconsin), Visiting Lecturer in Political Science, Semester I

Dorothy S. Smythe, A.B. (Mount Holyoke College), Research Associate in Biology

Larry Stein, Ph.D. (University of Iowa), Research Associate in Psychology

Katrin Taeger Bean, M.A. (Bryn Mawr College), Part-time Instructor in German

Ramona Livingston, A.B. (William Jewell College), Instructor in English

Maria Franziska Marshall, Staatsexamen (University of Munich), Part-time Instructor in German

Virginia Brooke Pennypacker, M.A. (Bryn Mawr College), Part-time Instructor in English

Elizabeth L. Pinner, Ph.D. (Bryn Mawr College), Instructor in Social Work and Social Research

Edmund Sherman, Jr., M.S.S. (University of Buffalo), Instructor in Social Work and Social Research

Mary Ann Calkins, M.A. (Bryn Mawr College), Instructor-elect in History

Gwenn Davis, B.A. (Oxford University), Instructor-elect in English

Wilhemina Davis, M.A. (Columbia University), Part-time Instructor-elect in Russian

Toby Eisenstein, A.B. (Wellesley College), Part-time Instructor-elect in Biology

Christine Hoffman, M.A. (University of Pennsylvania), Part-time Instructor-elect in English
Catherine Lafarge, Ph.D. (Yale University), Instructor-elect in French

Ann Myers Liacouras, M.A. (Fletcher School of Law and Diplomacy), Part-time Instructor-elect in Political Science

K. Scott Morgan, M.A. (Princeton University), Instructor-elect in English

Katrin Norton, M.A. (Cornell University), Part-time Instructor-elect in English

Jeanne Powell, M.A. (Bryn Mawr College), Instructor-elect in Biology

Enid Bok Schoettle, B.A. (Radcliffe College), Part-time Instructor-elect in Political Science

Helen Segall, B.S. (Simmons College), Part-time Instructor-elect in Russian

Carol Ward Carpenter, M.A. (University of Pennsylvania), Curator of Slides and Photographs

Fritz Janschka, Akademischer Maler (Akademie der Bildenden Kunste), Artist in Residence

William H. Reese, Ph.D. (University of Berlin), Director of Orchestra

Annie Laurer Alexander, M.A. (Yale University), Part-time Assistant in Mathematics

Louise A. Alpers, A.B. (Bryn Mawr College), Part-time Assistant in Classical and Near Eastern Archaeology

Randall Bach, M.S. (University of Minnesota), Part-time Assistant in Physics

Claudia Bailey, M.A. (Oberlin College), Part-time Assistant in Biology

David E. Bresler, A.B. (Brandeis University), Part-time Assistant in Psychology

Jay Cantor, M.A. (University of Delaware), Part-time Assistant in History of Art

Caroline Manning Cunningham, M.A. (Wesleyan University), Part-time Assistant in Music

Edward F. Gardner, M.S. (Pennsylvania State University), Part-time Assistant in Physics
Penny Jane Gilmer, A.B. (Douglass College), Part-time Assistant in Chemistry

Thora Johannson, A.B. (Barnard College), Part-time Assistant in Geology

Tyco Kihlstedt, M.A. (University of Pennsylvania), Part-time Assistant in History of Art

Ok Yul Kim, M.A. (Brown University), Part-time Assistant in Political Science

Henrika Kuklick, B.A. (Brandeis University), Part-time Assistant in Sociology

Malgouda Patil, M.A. (University of Poona), Part-time Assistant in Economics

Robert Peckman, M.S. (Fairleigh Dickinson University), Part-time Assistant in Physics

Angelina Polites, M.A. (College of William and Mary), Part-time Assistant in History

Alcine Potts, A.B. (Cedarcrest College), Part-time Assistant in Psychology

Mercedes Catherine Reilly, A.B. (Queens College), Part-time Assistant in Geology

Marion Rothman (The Sorbonne), Part-time Assistant in French

Jane Samuels, B.S. (Simmons College), Part-time Assistant in Chemistry

W. Michael Schoel, B.Con. (McGill University), Part-time Assistant in Psychology

David C. Scott, M.E. (Yale University), Part-time Assistant in Physics

Madolene Stone, M.A. (Bryn Mawr College), Part-time Assistant in Philosophy

Rebecca Test, A.B. (Oberlin College), Part-time Assistant in Anthropology

Esen Ortac Traub, M.A. (Bryn Mawr College), Part-time Assistant in Philosophy

Mary L. Wolfe, M.S. (University of Delaware), Part-time Assistant in Mathematics
Officers of Administration

Carol Biba, A.B. (University of Wisconsin), Director of Public Information
Louise Hodges Crenshaw, A.B. (Bryn Mawr College), Director of the Bureau of Recommendations
Paul W. Klug, C.P.A., B.S. (Temple University), Comptroller and Business Manager of the College
Mary Patterson McPherson, M.A. (University of Delaware), Assistant Dean of the College
Julie E. Painter, A.B. (Bryn Mawr College), Scholarship Officer
Clarissa Wardwell Pell, Director of the Resources Committee
Cynthia Sorrick Platt, A.B. (Bryn Mawr College), Recorder
Patricia Onderdonk Pruett, Ph.D. (Bryn Mawr College), Assistant Dean of the College
Horace T. Smedley, Superintendent of Buildings and Grounds
Katharine Budd Whelihan, A.B. (Mount Holyoke College), Assistant to the President

Library

Janet Margaret Agnew, B.L.S. (McGill University), M.A. (University of Manitoba), Head Librarian
Pamela G. Reilly, M.S.L.S. (Drexel Institute), Head of Circulation and Reference Department
Jane Walker, B.S. (Simmons College), Head of Cataloguing Department
Dorothy V. McGeorge, B.S.L.S. (Drexel Institute), Order Librarian
Yildiz van Hulsteyn, M.S.L.S. (Drexel Institute), M.A. (Bryn Mawr College), Librarian, West Wing
Ethel W. Whetstone, A.B.L.S. (University of North Carolina), Librarian, Departmental Libraries
Marie E. Devine, M.S.L.S. (Drexel Institute), Assistant in Cataloguing Department
Elizabeth T. Pope, M.S.L.S. (Drexel Institute), M.A. (University of Wisconsin), Assistant in Cataloguing Department
Gertrude Reed, M.A. (Rutgers University), Assistant in the Circulation Department
Cornelia A. Tucker, M.S.L.S. (Louisiana State University), Assistant in the Circulation Department

Foreign Students
Phyllis Turnbull, D. en F.L. (University of Madrid), Assistant Professor of Spanish and Adviser to Foreign Students

Halls of Residence
Angela Adekoya, M.A. (University of Chicago), Senior Resident of the Graduate Center
Joyce Altieri, A.B. (Wells College), Warden-elect
Guillemette de la Villetanet (The Sorbonne), Head of French House
Mary Gayle Foley, A.B. (University of Santa Clara), Warden-elect
Mary Louise Hawkins, M.A. (Bryn Mawr College), Warden of Denbigh
Angelika Hennings (University of Freiburg), Head of the German House
Sylvia Kartsonis, M.A. (Bryn Mawr College), Warden of Erdman Hall
Rosemary Lauer, Ph.D. (St. Louis University), Warden-elect
Maria del Carmen Robledo, A.B. (College of William and Mary), Warden
Mary Sturgeon, B.A. (University of Minnesota), Warden-elect
Anne Kathleen Turley, A.B. (San Francisco State College), Warden-elect
Jeanne Young, A.B. (Willamette University), Warden-elect

Health
Pearl S. Pitt, M.D. (Columbia University, College of Physicians and Surgeons), College Physician
Frieda W. Woodruff, M.D. (University of Pennsylvania), Assistant College Physician
Physical Education

IRENE A. CLAYTON, M.S. (University of Wisconsin), Director of Physical Education

GLORIA SCHMIDT, M.A. (New York University), Instructor in Physical Education and Acting Director, Semester II

SHARON ANN PLOWMAN, M.S. (University of Illinois), Instructor in Physical Education

GAIL STRATHDEE, B.S. (Tufts University), Instructor in Physical Education

JANET A. YEAGER, Instructor in Physical Education

Child Study Institute

RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania), Director

ELIZABETH PRESTON, M.S.S. (Bryn Mawr College), Social Caseworker

LOUISE BRUNK, M.S.S. (Bryn Mawr College), Social Caseworker

VIRGINIA G. KEEN, M.S.W. (University of Pennsylvania School of Social Work), Part-time Social Caseworker

JEANNE MURRAY, M.S.W. (University of Washington), Social Caseworker

CHRISTINE PATZAU, M.S.W. (University of Pennsylvania School of Social Work), Social Caseworker

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Faculty and Staff

Elsie Waelder, M.S.W. (Western Reserve University), Part-time Social Caseworker
Lelia Brodersen, M.A. (Temple University), Psychologist
Eleanor Beatty, M.A. (George Washington University), Psychologist
Isabel Westfried, M.A. (Bryn Mawr College), Psychologist
Anita Grinnell, M.S. (University of Pennsylvania), Part-time Psychologist
Frederic J. Kwapien, M.D. (Tufts University School of Medicine), Consulting Psychiatrist
Herman Staples, M.D. (Hahnemann Medical College), Consulting Psychiatrist
Anne D. Emmons, M.S. (University of Pennsylvania), Remedial Reading Teacher
Constance Grant, B.S. (University of Pennsylvania), Remedial Reading Teacher
Beth Riser, A.B. (Northwestern University), Remedial Reading Teacher
Hope D. Mitchell, A.B. (Sarah Lawrence College), Psychological Assistant

Phebe Anna Thorne School

Susan E. Maxfield, M.S. (Yale University), Director
Joan Fraser, B.S. (Northwestern University), Teacher
Mary Gibbs Smith, A.B. (Bryn Mawr College), Assistant Teacher
BRYN MAWR COLLEGE was founded by a group of men and women belonging to the Society of Friends who were convinced that intelligent women deserve an education as rigorous and stimulating as that offered to men.

This concern about opportunity for women to study at the university level was first felt by Dr. Joseph Taylor, a New Jersey physician, who decided to give his estate to provide the land, the first buildings and the endowment for the new college. With much care Dr. Taylor chose the site, thirty-nine acres of land on a hill in Bryn Mawr, eleven miles west of Philadelphia. He supervised the erection of the first building and took part in formulating the plans that led to a new educational venture. This was the opening in 1885 of the first college for women with undergraduate instruction for the A.B. and graduate instruction for the M.A. and Ph.D. degrees in all departments.

Dr. Taylor as he planned the College thought first of the education of young Friends. He expressed the “desire that all having any connexion with this Institution shall endeavor to instil into the minds and hearts of the students, the Doctrines of the New Testament as accepted by Friends.” As Dr. Taylor’s trustees in the early years considered the policies of the College they found themselves bound to allow freedom of conscience to all students. By 1893 it is clear from their studies and reports that they were determined to maintain a non-denominational college while strongly supporting the Friends’ position of freedom of conscience and providing for continued opportunity within the College and through the College to encourage the student to develop and strengthen her own religious faith.

The first president of Bryn Mawr College was James E. Rhoads, a retired physician and one of the Trustees responsible for the initial plans. The first dean was M. Carey Thomas, who devoted her life to securing for women the opportunity for higher education and the right to share in all the privileges and responsibilities of American citizenship. Miss Thomas succeeded to the presidency in 1893, after the resignation of Dr. Rhoads. In 1922, she was followed by Marion Edwards Park, already dis-
Introduction

tinguished in the academic world for her scholarship in the classics and her ability as a teacher and administrator. The fourth president is Katharine Elizabeth McBride, who was elected to the presidency in 1942.

Bryn Mawr has preserved the purpose and much of the tradition of its founders. It believes that intellectual enrichment and discipline provide a sound foundation for living. It believes in the rights of the individual and in freedom to think and act as intelligent and responsible members of a democratic society.

By the terms of its charter Bryn Mawr College offers instruction in the liberal arts and sciences on both the undergraduate and graduate level. Members of the faculty usually combine graduate and undergraduate teaching. Teaching and research are found to complement each other, and the stimulation of investigation in the various fields of graduate study is reflected in all departments of undergraduate work. The undergraduate program emphasizes both depth and breadth of knowledge and understanding. No field is so broad that it cannot take advantage of the specialist's deep understanding; no specialty is so obscure that it may not profit from a breadth of perception.

Believing that a small college provides the most favorable opportunity for the students to participate actively in their own education, Bryn Mawr College limits the number of undergraduates to approximately seven hundred students. And since diversity in background and training serves not only to stimulate discussion but also to develop an intelligent understanding of such diversity, the undergraduate enrolment includes students from various types of schools, private and public, foreign as well as American. The whole group, both graduate and undergraduate, is composed of students from all parts of the United States as well as students from many foreign countries.

Since the early years of Bryn Mawr, the campus has grown from 39 to about 88 acres, new buildings have been added as required by additional students and by more complex undertakings in teaching and research, yet the College remains a compact unit for living and working.

The resources of Bryn Mawr as a small residential college are augmented by its participation with Haverford College and Swarthmore College in a plan which coordinates the facilities of
the three institutions while preserving the individual qualities and autonomy of each.

Bryn Mawr College sponsors a broad cultural program which supplements the curriculum and enriches its community life. Various lectureships bring scholars and other leaders in world affairs to the campus for series of public lectures and for classes and conferences with the students. Such opportunities are provided by the six-week residence of the Mary Flexner Lecturer in the humanities and of the Anna Howard Shaw Lecturer in the social sciences, and by various individual lecturers in many of the departments of the College. Several of the student organizations also arrange conferences and lectures both on current national and international problems and within particular fields of interest. The musical, dramatic and dance productions of the College are directed and arranged by the appropriate student organizations, often in cooperation with Haverford College students, and with professional assistance from members of the faculty and staff. The Mrs. Otis Skinner Theater Workshop provides facilities for experimental theater work and a studio for painting and sculpture, where guidance and criticism are provided by the artist-in-residence.

Student organizations have complete responsibility for the many aspects of student activity. Two large associations, to which every student belongs, provide a framework in which individuals and smaller groups function. The Self-Government Association legislates in matters of social and personal conduct, and its elected Executive Board has full responsibility for the executive and judicial functions of the organization. Through their Self-Government Association, the students share with the faculty the responsibility for the administration of the Academic Honor System. The Undergraduate Association coordinates the activities of the many specialized clubs and societies which are open to all students.

The Interfaith Association invites students of all faiths to take part in its work. The Association is aided by the Committee on Religious Life of the Board of Directors and by the staff of the College. Its objectives are to bring students in touch with their churches, to sponsor lectures or discussion on religious subjects, to plan services for worship and to take the responsibility for giving students an opportunity to pursue and extend their religious interests.
Other major student associations are concerned with political affairs, community service, the arts and athletics. The Alliance for Political Affairs sponsors lectures and a series of groups organized for discussion or action. The Bryn Mawr League concerns itself with problems of social welfare and various branches of social service to the community at large. The Arts Council, independently or with other associations, sponsors work and performances or exhibitions in the arts and The College News published weekly and The Review published twice yearly welcome the participation of students interested in reporting, editing, and critical or creative writing. The Athletic Association plans the extra-curricular athletic program.

Opportunities for the cultivation of clear thinking and informed reasoning, for exercise in the privileges and responsibilities of community life, and for practice in the critical and creative arts are present to each undergraduate student at Bryn Mawr. As she continues through the four undergraduate years, she should begin to know too the personal satisfactions and rewards that are the common heritage of scholars.
Admission

BRYN MAWR COLLEGE is interested in candidates of character and ability, who wish a liberal college education and are prepared for college work by a sound education in school. The College has found highly successful candidates among students of varied interests and talents from a wide range of schools and regions in the United States and abroad.

In its consideration of candidates the College looks for evidence of ability in the student's high school record, her rank in class and her College Board tests, and asks her high school principal and some of her teachers for an estimate of her character, maturity and readiness for college.

The Director of Admissions welcomes correspondence and interviews with candidates, their parents and school advisers. The Office of Admissions is open from nine to five on weekdays and on Saturdays from nine to one, except during July and August. Appointments for interviews and for campus tours should be made in advance by letter or by telephone. The interview is strongly recommended for all candidates, and is required of all candidates under the Early Decision Plan and all scholarship applicants. Representatives of the Alumnae Association and Information Chairmen in various sections of the country are glad to interview candidates who cannot come to the College. Names and addresses may be secured from the Director.

The College admits only candidates for a degree.

PROGRAM OF SECONDARY SCHOOL STUDIES

Candidates are expected to complete a four-year secondary school course. The program of studies providing the best background for college work includes English, languages and mathematics carried through most of the school years and, in addition, history and a laboratory science. A school program giving good preparation for study at Bryn Mawr would be, for example, as follows: English grammar, composition and literature throughout four years; at least three years of Mathematics, with emphasis on basic algebraic, geometric and trigonometric concepts and deductive reasoning; a good foundation in one modern language and in Latin or Greek; some work in History and at least one course in laboratory science, preferably Biology, Chemistry or Physics. Elective subjects might be offered in, for example, History of Art, History of Music or Biblical studies to make up
the total of 16 or more credits recommended for admission to the College.

Since school curricula vary widely, the College is fully aware that many applicants for admission will offer programs that differ from the one described above. The College is glad to consider such applications provided students have maintained good records and continuity in the study of basic subjects.

APPLICATION FOR ADMISSION

Students are advised to apply for admission to Bryn Mawr between the end of the junior year and January 1 of the senior year of high school. The College welcomes earlier consultation about school programs.

Only in exceptional circumstances will applications to the freshman class be accepted after January 1 of the student's senior year.

Application forms may be obtained from the Director of Admissions, Bryn Mawr College, Bryn Mawr, Pennsylvania. A fee of $15 must accompany each application and is not refundable.

ENTRANCE TESTS

The Scholastic Aptitude Test and three Achievement Tests of the College Entrance Examination Board are required of all candidates with the exception of students who have been admitted to the universities of other countries. The Aptitude and Achievement Tests should be taken in December or January of the senior year in secondary school. If possible, Achievement Tests should be taken in current subjects. Students should offer three of the one-hour tests: one in English, one in a foreign language (if studied for two full years or more) and one in Social Studies, Science or Mathematics. A student may, if not carrying three subjects suitable for testing, submit one test taken in the junior year. No special preparation, other than work well done in a good school, is required for successful performance on these tests. A trial run of the Scholastic Aptitude Test in March or May of a student's junior year is advised. Candidates will be notified late in April of the senior year as to whether or not they will be admitted to the College.

Candidates are responsible for registering with the College Entrance Examination Board for the tests. Information about the tests, test centers, fees and dates may be obtained by writing to College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey, or P.O. Box 1025, Berkeley 1, California.
EARLY DECISION PLAN

A student who is applying for admission to Bryn Mawr College only, and to no other college, will be sent an earlier notice (by the middle of November) as to the action taken on her application, provided she follows the plan outlined below:

1. She must be recommended by her school as a strong candidate and must take her final Scholastic Aptitude Test in March or May of the junior year and three Achievement Tests (English and any two others) in March, May or July of the junior year.

2. After her school has reviewed the results of these tests together with her three-year high school record, she must file by October 1, a preliminary application, a statement obtained from the College that she is a candidate under the Early Decision Plan, and all other application forms.

3. She will be notified by the College by the middle of November (1) that she will be admitted to Bryn Mawr the following autumn, provided her record continues to be good, or (2) that she is advised to transfer to the regular plan for admission, repeating the Scholastic Aptitude Test and three Achievement Tests in the winter of her senior year, and filing an application with at least one other college, or (3) that she will not be admitted to Bryn Mawr.

4. A student who has been assured of admission will be asked to make a deposit of $50 by February 1, if she wishes to reserve a place in residence at Bryn Mawr College. This deposit will be deducted from her first semester bill and is not refundable after March 1.

ADVANCED PLACEMENT

Students who have carried advanced work in school and who have honor grades (4 and 5) on the Advanced Placement Tests of the College Entrance Examination Board may, after consultation with the Dean and the departments concerned, be admitted to one or more advanced courses in the freshman year. Bryn Mawr accepts Advanced Placement Tests with honor grades in the relevant subjects as exempting the student from college requirements for the A.B. degree. With the approval of the Dean and the departments concerned, one or more Advanced Placement Tests with honor grades may be presented for credit. Students who enter with three or more Advanced Placement Tests passed with honor grades may apply for sophomore standing.

1. The grade of 5 is required in English and in History.
The Advanced Placement Tests are given at College Board centers in May. Students should also see the Dean about the advisability of taking placement tests given by the College during Freshman Week.

TRANSFER AND FOREIGN STUDENTS

Students are admitted on transfer from American and foreign colleges and universities approved by the College. To be admitted on transfer, a student must have an excellent school record and, in college work, at least a high "B" average. A transfer applicant should submit to the College:

1. A letter explaining why she wishes to transfer and her plans for the major subject.
2. A current catalogue of her own college, in which she has marked the courses taken.
3. Transcripts of her high school and college courses.
4. Official test reports from the College Entrance Examination Board on the Scholastic Aptitude Test and three Achievement Tests if the candidate has taken them previously.

Transfer candidates who have not taken these tests will be required to take only the Scholastic Aptitude Test. Information concerning this test and applications to take it may be obtained from the College Entrance Examination Board. (For address see page 29.)

Foreign students may substitute for the College Board tests evidence that they have been admitted to universities in their own countries. Those whose native language is not English must also present credentials attesting to proficiency in English.

No credit will be given for work done elsewhere until the student has successfully completed a year's work at Bryn Mawr. To qualify for the A.B. degree, transfer students must complete two years of study here. Students of other colleges or universities who have failed to meet the prescribed standards of academic work, or who have been put on probation or suspended or excluded, will under no circumstances be admitted.

READMISSION

A student who has withdrawn from College is not automatically readmitted. After a year's absence, she may request readmission and should consult her Dean and the Director of Admissions concerning the procedure to be followed. Applications for readmission will be reviewed twice during the year, in late February and in June. Students who file an application by February 15 will be notified of the Committee's decision in early March. Those who file by June 10 will be notified late in June.
Academic Facilities and Residence

THE LIBRARY

THE M. CAREY THOMAS LIBRARY, containing over 325,000 volumes, is equipped to serve advanced graduate students and faculty as well as undergraduates. It is both a research and a study library. Periodicals in all subjects, of which over one thousand are currently received, contribute materially to the value of the collection.

The open-shelf system provides free access to the stacks. The Reference Room and Periodical Room make readily available standard works of reference and current periodicals.

The Quita Woodward Memorial Room has been planned for recreational reading. The collection provided for this purpose, now numbering about two thousand volumes, includes recent books in literature, art, religion and current affairs as well as many classics.

In the Rare Book Rooms, there are early printed books, manuscripts, first editions, fine press books, fine illustrated editions and association copies. Exhibitions of items selected from the library's own resources and of material lent by friends of the Library are held at intervals during the academic year. Here also is the Marjorie Walter Goodhart Medieval Library, a collection of incunabula given by Howard L. Goodhart which numbers over nine hundred volumes. Consisting mainly of philosophical and theological works of the fifteenth century, it occupies a significant place among college library collections.

A large Reading Room modeled after the Great Hall in Wadham College, Oxford University, has individual desks for undergraduate students. Additional work space is available in the Reserve Book Room, the Reference Room, the Art Study and the carrels in the West Wing. Twelve seminar rooms are reserved for graduate students. So crowded, however, has the Library become, not only in terms of its collections but also for faculty and students depending upon it, that an addition is urgently needed. Studies for this addition are nearing completion.

Haverford and Swarthmore Colleges and the libraries in Philadelphia are generous in making their resources available to students. The Union Library Catalogue of Philadelphia, situated at the University of Pennsylvania, enables students to locate easily the material in approximately one hundred and seventy-five libraries in the Philadelphia metropolitan area.
Students wishing to use another library for material not available at Bryn Mawr must secure from the Bryn Mawr head librarian a letter of introduction stating the subject to be consulted. Cards of identification for the use of the Haverford College Library are obtainable at the Circulation Desk.

Each of the science departments at Bryn Mawr has its own library, with adequate reading space providing ready accessibility to bound and current numbers of scientific journals, standard reference books and modern texts.

**ART AND ARCHAEOLOGY COLLECTIONS**

A small but valuable group of original works of art, available for study, includes Greek and Roman vases, ancient coins, sculpture, Oriental pottery and scrolls, prints, and modern American and European paintings. The Ella Riegel Museum of Classical Archaeology houses the Densmore Curtis Collection presented by Clarissa Dryden, part of the Hoppin Collection, the Elizabeth Washburn King Collection of Classical Greek coins, and the Aline Abacheherli Boyce Collection of Roman Republican silver coins, as well as various other gifts from friends of the College. Professor Hetty Goldman has deposited the field records and photographic files of the excavations at Colophon (1922) and Tarsus (1934-9, 1946-7) with the Department of Archaeology. She has also given the Ella Riegel Museum an extensive study collection of pottery samples from the Tarsus excavations. For Far Eastern study the Chapin Collection of books, paintings, calligraphy, textiles and ceramics contains material from Korea as well as from China and Japan. Western art is variously represented by several small collections, including the Howard L. Gray Collection of Modern Prints and the Neuberger Collection of Contemporary American Paintings.

**ANTHROPOLOGY MUSEUM AND LABORATORY**

The Anthropology Laboratory in Dalton Hall houses several large collections of New World artifacts, including the W.S. Vaux Collection of archaeological and ethnological materials. This important collection, made during the last half of the nineteenth century, has as its main emphasis the artistic works of New World Indians. The Anne and George Vaux Collection represents a wide selection of American Indian basketry from the Southwest, California and the Pacific Northwest. The extensive Ward Canaday Collection contains outstanding examples of most of the ceramic and textile traditions known for Peru. Other comprehensive collections, given by faculty and
friends of the College, represent the Old World Paleolithic and Neolithic, Paleo-Indian, Eastern Woodland, Southwestern, Middle Mississippian and Mexican antiquities. These collections are shortly to be enlarged by osteological materials and casts of fossil hominids. There is also a small but growing collection of ethnomusical recordings, representing the music of native peoples in all parts of the world. Students are expected to make use of these materials and laboratory facilities; there are limited display areas available for those interested in working on museum exhibits.

LABORATORIES

Laboratories, classrooms and libraries for Biology, Chemistry, Geology, Mathematics and Physics are located in the three buildings of the Science Center. Laboratories and classrooms for Psychology remain in Dalton Hall.

In the Science Center the central building is the Marion Edwards Park Hall for Chemistry and Geology. Adjoining this building on the north is a building completed in 1958 for the biological sciences. South of Park Hall is the building for the physical sciences, completed in 1964, which provides additional space for Chemistry and Geology, all the laboratories for Physics and classrooms and a library for Physics and Mathematics.

In all three buildings in the Science Center and in Dalton Hall there are large laboratories and lecture rooms for undergraduate students and smaller seminar rooms and laboratories for graduate students. In addition to the usual equipment, the science departments have special apparatus and instruments needed in particular research projects by faculty and graduate students and acquired, in part, through the Plan for the Coordination of the Sciences and through research grants from industry and other private sources and from government agencies.

In the new building for the physical sciences there is a machine shop with expert machinists in charge and a student workshop available to graduate students. There are rooms in the Biology Building for work with radioactive materials, for micro-photography and for glass blowing.

A Computer Center under the joint sponsorship of Haverford and Bryn Mawr Colleges is on the Haverford campus. It has an IBM 1620 computer and auxiliary record equipment for the use of students and faculty of both colleges. Computer-related machines are available in Dalton Hall on the Bryn Mawr campus.
The Geology Department makes available for study and research several important collections. On deposit from the United States Army Map Service are 25,000 maps. The Department's large collection of minerals has been greatly increased recently by the gift of the Mineral Collection of George Vaux, Junior.

LANGUAGE LABORATORY

The Modern Language Departments jointly maintain a Language Laboratory in Dalton Hall. Its library of tapes contains recordings from the various literatures as well as material especially prepared for language drills. The simple but versatile modern equipment offers opportunities to improve both the speaking and comprehension proficiency of the student of foreign languages.

HALLS OF RESIDENCE

There are on campus nine halls of residence, which provide full living accommodations for from 50 to 135 students. The newest of these, Eleanor Donnelley Erdman Hall, opened in September 1965. It was named in honor of Eleanor Donnelley Erdman, Class of 1921, and member of the Board of Directors, 1951-6. Denbigh Hall, Merion Hall, Pembroke East, Pembroke West and Radnor Hall are named for counties in Wales, recalling the tradition of the early Welsh settlers of the area in which Bryn Mawr is situated. Rockefeller Hall is named for its donor, John D. Rockefeller, and Rhoads North and South for the first president of the College, James E. Rhoads. In addition there are three smaller halls which constitute language houses for upperclassmen who wish to speak French, German or Spanish.

A college officer, the warden, is in charge of each residence hall. She is a member of the Dean's staff and is herself engaged in teaching or in studying for an advanced degree. She is interested in all aspects of each student's welfare and she works, as well, with the student officers in each hall.

The College offers a variety of living accommodations including a few suites and a limited number of double rooms. However, most students occupy single rooms. The College provides basic furniture but students supply their own rugs, curtains and any other accessories they may wish.

The maintenance of halls is the responsibility of the Director of Halls and a staff of managers. Food service is provided by a Philadelphia company. No special foods or diets can be obtained.
RULES FOR RESIDENCE

Residence in the college buildings is required of all undergraduates except those living with their families in Philadelphia or the vicinity. Married students are not admitted to residence. A student enrolled in the College who plans to be married must inform the Dean of her intentions well in advance of the date of her marriage and must make arrangements for living that meet with the Dean’s approval. Any student who marries during her college career without previously informing the Dean of her plan will not be permitted to remain in the College.

The College maintains the halls of residence in order to provide simple, comfortable living for its students. It expects students to respect its property and the standards on which the halls are run. A printed statement of residence regulations is given each student. The College makes every effort to keep the residence charge low; the present rates are possible only because the students have agreed to assume the major responsibility for keeping their rooms clean and in order, thus permitting a reduction in service. Failure on the part of a student to meet the requisite standard in the care of her room may cause the College to refuse her residence the following year.

All the undergraduate halls are closed during the Christmas vacation. One hall is kept open during the Spring vacation and here undergraduates may occupy rooms at $2.00 per day.

NON-RESIDENT STUDENTS

For non-resident students, there is a suite of rooms in Erdman Hall containing study space, a kitchenette, dressing room and showers. College mail and campus notices will be sent there throughout the academic year. The warden of one of the halls of residence is also warden for the non-resident students. She will be available for advice and glad to help plan teas or any other special occasions which the non-resident students may be interested in arranging.

When space permits, non-resident students may make arrangements with the Director of Residence to have meals in the residence halls.

Non-resident students are liable for all undergraduate fees except those for residence in the hall. The non-resident Dispensary fee of $15 entitles them to medical examination and consultation with the College Physician. For health fees, see page 42.

Non-Resident Enrolment Fee. A non-resident student who wishes to enroll for the following year must make a deposit of $25 not later than June 1. This deposit will be credited against the tuition charge.
Fees

TUITION

The tuition fee for 1966-7 for all undergraduate students, resident and non-resident, is $1700. Because of increasing costs and the need to increase salaries, the tuition fee for undergraduate students in 1967-8 and thereafter will be $1850 a year. The fee is payable on receipt of the bill sent in October. No reduction or refund of the tuition fee will be made on account of absence, illness, dismissal, or for any other reason.

The average cost of teaching each undergraduate student is about $3350 a year. The difference must be met from income on endowment and from private gifts. Contributions from parents able and willing to pay the additional sum or part of it are most welcome and help to meet expenses of instruction.

RESIDENCE

The charge for residence is $1150, $1250 or $1350, according to the size and location of the student's room. Residence fees are payable as follows:

- $1150—payable $575 in October, $575 in February
- $1250—payable $625 in October, $625 in February
- $1350—payable $675 in October, $675 in February

Application for Residence. A student in residence, who wishes to apply for a room for the following year, must make an application for a room and accompany it with an application fee of $10. This fee will be credited against the residence charge if the room assigned is occupied by the applicant; it will not be refunded in any circumstance. Each student enrolled for the following year must make an additional deposit of $40 not later than June 1. This deposit will also be credited against the residence charge. It will be returned if the student withdraws from College before June 15; it will not be returned if she withdraws later than June 15.

New students applying for residence will be billed $50 in the spring. This $50 will be credited against the residence charge, but it will not be returned in case of withdrawal after June 15.

New students assured admission under the Early Decision Plan will be asked to make a room deposit of $50 by February 1.

An applicant who, after having reserved a room, fails to cancel her reservation by July 15 (even though she does not occupy the room at all or vacates it during the college year) prevents some other student from obtaining accommodation and con-
sequently admission to the College. Therefore, unless formal notice of withdrawal of application for the ensuing academic year is received by the Dean of the College by July 15, the applicant is responsible for the residence charge (based upon the room assigned to her) for the whole year, or if a definite room assignment has not been made, the applicant is responsible for the minimum residence charge of $1150, subject to an allowance for the cost of food and a further allowance if the College re-rents the room to a student not previously resident. The applicant is not entitled to dispose of the room.

Reduction of Charges for Absence from College. In case of illness or withdrawal from the College for a period of six consecutive weeks or longer there will be a reduction in the charge for residence (representing the reduced expense to the College for food), provided written notice is given to the Dean of the College at the time of withdrawal.

SUMMARY OF MAJOR EXPENSES

1966-7 — For resident students, tuition and residence: $2850, $2950, or $3050 according to the type of accommodation
   For non-resident students, tuition: $1700.
1967-8 & thereafter — $3000, $3100, or $3200 according to the type of accommodation.
   For non-resident students, tuition: $1850.

Minor Fees and Charges
Laboratory courses (or, in Geology, field work) for materials and apparatus:
   One course of 2 hours or less a week .................. $ 7.50
   One course of more than 2 hours a week ............... 15.00 — a semester
   Two courses of more than 2 hours a week ............. 25.00
   Three courses of more than 2 hours a week .......... 30.00
Health Insurance (Students' Reimbursement Plan) .... 15.00 a year
Dispensary fee for non-resident students ............... 25.00
Graduation fee (payable in the senior year) ........... 20.00

Bills will be rendered by the Comptroller at the beginning of each semester. Students whose fees and charges are not paid before November 1 in the first semester and before March 1 in the second are not permitted to continue in residence or to attend their classes. The Education Plan is available for parents who prefer to pay fees in monthly instalments.
STUDENT ADVISING

The Deans are responsible for the general welfare of undergraduates, and students are free to call upon them for help and advice on academic or more general problems. The Dean of the College and the Assistant Deans serve as class advisers and are responsible for the administration of the scholarship program. The wardens of residence halls, members of the Dean's staff, also are ready to advise and assist students. The College Physician, the consulting psychiatrists, study counselors and vocational advisers are also available to all students. The deans and the wardens will give students information about appointments with these specialists.

The Scholarship Officer is responsible for the administration of the scholarship program and the loan funds from which qualified undergraduates may borrow.

For freshmen, the College provides a special period of orientation. Freshmen are asked to come into residence three days before the College is opened to upperclassmen. The wardens of the various halls and a committee of upperclassmen welcome them and are available to answer questions and give advice. The freshmen have interviews with the President or the Dean of the College and consult with the deans on registration of courses. New students also take placement tests and a physical examination. To acquaint them with the many other aspects of college life, activities are sponsored by the undergraduate organizations.

ACADEMIC STANDARDS AND REGULATIONS

Faculty rules governing academic work and the conduct of courses are stated in a booklet, "Academic Rules for Undergraduates," given to each freshman. All students are responsible for knowing the rules thoroughly. Rules concerning the Academic Honor System and student conduct are stated in the Self-Government Handbook.

Each student's academic work must be of sufficiently high quality to meet the academic standards set by the College. The Senate of the College, composed of one faculty member from each department, reviews the records of those students whose work has fallen below the required standard. In such cases the Senate may set specific requirements to be met by the student.
concerned and may also curtail privileges. In extreme cases the Senate may recommend exclusion from college.

Integrity of all work is demanded of every student. Information about the Academic Honor System dealing with the conduct of examinations, written quizzes, and other written work is given to all entering students, who must sign a statement that they have read, understood and accepted the rules. Any infraction of these regulations or any action contrary to their spirit constitutes an offense. Infractions are dealt with by an Administrative Board under the chairmanship of the President of the College. The members of the board are the four college-elected members of the Executive Board of the Bryn Mawr Students’ Association for Self-Government, three members of the Faculty and the Dean of the College or the Assistant Dean.

ATTENDANCE AT CLASSES

Regular attendance at classes is expected. Responsibility for attendance rests solely with each student. In general no attendance records are kept, except where an instructor has requested that attendance be taken. Each instructor will make clear his view concerning absence from class.

Students should note that instructors are not notified of absences because of illness unless a student has missed three days of classes.

Absences for health or other urgent reasons are excused by the Dean, but any work missed must be made up. After a brief absence the student should consult her instructors about making up the work. In the case of a prolonged absence the Dean must be consulted as well as the instructors. If it seems probable to the Dean that a student’s work may be seriously handicapped by the length of her absence, she may be required to drop one or more courses. Any student absent for more than twenty-five consecutive class days will generally be required to drop a course.

EXCLUSION

The College reserves the right to exclude at any time a student whose conduct or academic work is unsatisfactory. In such cases the fees due or already paid to the College will be neither refunded nor remitted in whole or in part.

HEALTH

An extensive program, including periodic physical examinations and regular work if needed or desired during the first two
years in the Department of Physical Education, has been established to help students develop and maintain optimum conditions of health. Students receive clinic and hospital care in the College Dispensary and Infirmary, where a College Physician is in daily attendance. The College maintains a modern 22-bed infirmary with a full staff of physicians and nurses. The Bryn Mawr Hospital and other excellent hospitals in nearby Philadelphia offer additional medical and surgical facilities.

The College physicians and psychiatrists may be consulted by the students without charge. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. The student must meet the expense if consultation is required. No student while in residence should consult an outside physician without previously informing the College Physician. Any student who leaves the campus for reasons of health must notify the Dean, the College Physician or Head Nurse before she leaves.

Certain health regulations must be met by all entering students. A medical examination blank provided by the College must be filed before July 1. As part of this health report, certification of immunization against tetanus, diphtheria and poliomyelitis, vaccination against smallpox, a Mantoux test and ophthalmologist's certificate are required. If the Mantoux test is reported positive a chest X-ray is necessary. Students who have failed to hand in these reports will have the necessary examinations and immunizations on arrival and will be charged accordingly.

The ophthalmologist's examination must be repeated before the beginning of the junior year. Failure to meet this requirement necessitates an examination by one of the College consultants, for which the student will be charged as a private patient by the ophthalmologist who makes the examination.

Every student with a health problem will be examined by the College Physician upon entering College and as often thereafter as necessary. Every undergraduate is examined by the College Physician in her senior year. A student who at any time is found not to be in good health is required to follow the special regimen prescribed by the College Physician, including any necessary limitations on academic or extracurricular activities.

The residence fee paid by resident students entitles them to treatment in the College Dispensary and to care in the College Infirmary for seven days, not necessarily consecutive, during the year, to attendance by the College physicians during this time and to general nursing. In cases requiring a special nurse, the
expense incurred must be paid by the student. This is mandatory in cases of serious illness and strict isolation. The fee for each day in the Infirmary after the seven-day period is $12. The Infirmary is open when college is in session and during spring vacation. It is closed during Christmas vacation.

Non-resident students must pay a fee of $25, which entitles them to unlimited dispensary and laboratory service and free consultation with the College physicians and psychiatrists. Married non-resident students who maintain their own homes need not pay the fee unless they desire dispensary privileges.

All communications from parents and guardians, outside physicians and others, concerning the health of the students, should be addressed to the Dean of the College or to the College Physician. Any student who becomes ill when absent from College must notify the Dean of the College immediately and present to the Infirmary when she returns a signed statement from her physician.

The College reserves the right, if the parents or guardians cannot be reached, to make decisions concerning operations or other matters of health.

The College has arranged for health insurance, known as the Students' Reimbursement Plan. Individual policies providing reimbursement for medical, surgical and hospitalization expenses within specified limits are available to resident students. The cost is $15 a year and includes protection during all vacations. Application forms may be obtained from the Comptroller.

THE EDUCATION PLAN

Since some parents prefer to pay tuition and other college fees in equal monthly instalments during the college year, the College offers this convenience under the Bryn Mawr Trust Company. The cost of a one- or two-year contract is four per cent greater than when payment is made in cash. The interest rate is slightly higher for three- or four-year contracts. Contracts include the benefit of parent life, total and permanent disability insurance.

INSURANCE

The College is not responsible for loss due to fire, theft or any other cause. Students who wish to insure against these risks should do so individually or through their own family policies.
Curriculum

In 1965 the Bryn Mawr faculty approved changes in curriculum recommended by a special committee after a two-year review. The new plan of study for the Class of 1969 and later classes takes into account both the changes of recent years in secondary school education and the expectation of graduate school on the part of a larger proportion of students. It provides greater flexibility and makes it possible for students to include a wider range of fields of knowledge and to have greater freedom to explore and elect. One way in which greater flexibility has been achieved is to include all departments of the College in a divisional system, thus allowing both humanist and scientist a greater variety of ways in which to meet college requirements.

The plan for the curriculum may be outlined as follows:

I. All candidates for the A.B. degree shall present 16 units of work. In most cases a unit of preparation for the Final Examinations in the Major Subject will constitute one of these units.

II. All students must present as a requirement for the degree one unit of work from each of the following four divisions.

Group I
History
Philosophy
Anthropology
Economics
Education
Political Science
Psychology
Sociology

Group II
Biology
Chemistry
Geology
Physics
Mathematics

Group III
English Literature
Modern Literatures
Classical Literatures
(The foreign literatures at the level presently permitted under the literature requirement)

Group IV
History
Philosophy
Archaeology
History of Art
History of Music
History of Religion

1. A unit of work is the equivalent of eight semester hours and is either a year course, or when appropriate, two one-semester courses.
2. In special cases and with the approval of the Curriculum Committee, Biblical Literature will serve as fulfilling the literature requirement.
The following directions and qualifications are to be noted:

a. A student (not majoring in subjects under Group II) may elect a second course¹ under Group II as an alternative to any one of her other divisional requirements.

b. No course may satisfy more than one divisional requirement. Students majoring in History or Philosophy may count a course in their major as satisfying the requirement in either Group I or Group IV, but not both.

c. Courses taken to satisfy the requirements in English and Languages or Mathematics described below do not count as fulfilling divisional requirements.

III. In addition to the divisional requirements, each student must:

A. Include in her program two semesters of English composition (English 15) unless by advanced placement or by an examination given by the Department of English she has shown evidence that she has already attained proficiency at this level.

B. Achieve a certain level of proficiency in languages or mathematics, the level to be demonstrated in one of the three following ways:

1. She may demonstrate a knowledge of two foreign languages by

   a. passing an examination offered by the College every spring and fall, or

   b. passing with a grade of at least 70 a College course above the elementary level (such courses must be completed before the senior year), or

   c. attaining a score of at least 590 (in one language) on a College Board Achievement Test taken in the senior year of high school and/or by passing with an honor grade an Advanced Placement Test.

¹ Mathematics may be chosen as this second course, but may not be chosen as fulfilling the Group II requirement if only one course in that group is taken.
2. She may offer one language to be tested as described above and demonstrate proficiency in mathematics by
   a. attaining a grade of 4 or 5 on the Advanced Placement Test, or
   b. passing an examination offered by the Department of Mathematics each spring and fall, or
   c. achieving a grade of at least 70 in Mathematics 101, 103, or a more advanced course.

3. She may offer one language to an advanced level of proficiency to be demonstrated by passing with a grade of at least 70 one course or two semester courses at the 300 level.

IV. At the end of the sophomore year each student must choose a major subject, and in consultation with the departmental adviser plan an appropriate sequence of major and allied courses; she must also make plans for fields which she will offer in the Final Examinations in the Major Subject and the kind of preparation for these examinations which she will undertake. Usually a major is made up of four courses, two courses of allied work, the equivalent of one advanced course in preparation for Final Examinations in the Major Subject, and these examinations in the spring of the senior year. No student may be required to offer more than six units of work in the major subject. Students invited to participate in the Honors program count the Honors project as one of the major subject units.

In brief outline, each student's program will include:

1. a unit of work in English, unless she is exempt
2. work to achieve the required level of proficiency in one language, or two languages, or one language and mathematics
3. four units of work, one from each of the divisions I-IV
4. a major subject sequence of at least four units of work and two units of allied work
5. elective units of work to complete an undergraduate program of at least 16 units.
Each major department offers Honors work to a number of its senior students who have demonstrated unusual ability. Honors work is of a more advanced character than that done in the regular courses and requires more initiative and power of organization than is usually expected of undergraduate students. Such work may be carried on in connection with an advanced course or may be planned especially for individual students. It usually includes independent work of a critical and analytical nature with source material, periodic reports and the preparation of an Honors paper. To be eligible a student must have completed two years of study in the major subject, and her candidacy must be approved by the Dean and the Curriculum Committee. The Honors work must be undertaken in addition to at least one full unit of advanced course work.

Numerical grades on the scale of 100 are given in all courses counting for the degree. Each student must attain a grade of 70 or above in at least half of these courses and a grade of at least 60 in the remainder. In all courses in her major subject, she must attain grades of 70 or above. Should she receive a grade below 70 in a second-year or advanced course in the major subject, she may be required to change her major.

The degree of Bachelor of Arts is conferred upon students who have completed the course of study described above. The degree is awarded cum laude, magna cum laude, and summa cum laude to students whose numerical average in all their courses is 80-84, 85-89, 90 or above respectively. To students who have completed Honors work in their major subject the degree is awarded with honors in that subject.

Credit for work taken elsewhere is given as follows:

1. Transfer credit (see page 31)

2. Cooperation with Neighboring Institutions

Under the Three-College Plan for Cooperation, full-time students at Bryn Mawr may register for courses at Haverford College and Swarthmore College without payment of additional fees. Such registration must be approved by the Dean and the departments concerned. Credit toward the Bryn Mawr degree will be granted for such courses.

Students at Bryn Mawr may register for courses at Haverford (1) in order to include in their programs work not offered at Bryn Mawr, (2) in order to solve problems of
schedule conflicts when courses are offered at both colleges and (3) whenever major departments advise.

Students registered for courses at Haverford should note that Haverford courses begin on the half hour and therefore be certain that their schedules allow for transportation time.

3. Summer School Work

Students desirous of supplementing their work at Bryn Mawr by taking courses in summer school are encouraged to do so after their freshman year. Students who wish to present summer school work for credit should first obtain approval of their plan from the Dean and from the department concerned. No credit will ever be given for work in which a student has received a grade below C. Credit given will be calculated on an hour-for-hour basis.

Supplementary requirements for the Degree are:

1. In addition to completing the course of study outlined above, all candidates for the A.B. degree must take the following work:

   a. Hygiene
   All students must meet the requirements in Hygiene by passing an examination based on reading assigned by the College Physician and the Consulting Psychiatrists and given annually. The examination must be taken no later than the autumn of the junior year.

   b. Physical Education
   All students must meet the requirement in Physical Education. (See page 129.)

2. Residence—Every candidate for the degree of Bachelor of Arts unless she is a transfer student or is permitted to accelerate her program must attend Bryn Mawr College for a period of four years. Students admitted on transfer from other colleges must study at Bryn Mawr for at least two years.

3. Full Program of Work—With few exceptions, all students carry a complete program and no student may spend more than the equivalent of the four undergraduate years in completing the work for the A.B. degree.
PREMEDICAL PREPARATION

Bryn Mawr, through the curriculum in liberal arts and sciences, provides the opportunity of meeting requirements for admission to the leading medical schools of the country, and each year a number of its graduates enter these schools. The minimal requirements for most medical schools are met by the following courses: Biology 101, Chemistry 101, Chemistry 202, Mathematics 101, Physics 101. Some medical schools also stipulate Chemistry 201a and 203, and reading facility in French and German.

The requirements are fulfilled by a major in Biology, with the election of Mathematics 101 and Physics 101, or by a major in Chemistry, with the election of Biology 101. They can be met by a major in other subjects, such as literature or history, with careful planning of the student’s courses during her four years at Bryn Mawr and some work in the summer at an institution giving summer courses acceptable either to Bryn Mawr in substitution for its regular course work, or to the medical school of the student’s choice as preparation for its courses of study.

The College is able to award a number of scholarships for medical study from funds given for that purpose by friends interested in the advancement of women in medicine. These may be applied for on admission to medical school and are awarded at the end of the senior year for use during the first year of medical study, with the prospect of renewal for later years if the student’s need and her record in medical school warrant it.

COORDINATION IN THE SCIENCES

In 1935, a grant from the Carnegie Corporation of New York enabled the College to put into operation a Plan for Coordination in the Sciences. Under the plan, the science departments offer an unusual kind of science training, providing instruction in overlapping fields of natural science and related subjects. The program necessarily demands a thorough grasp of the fundamentals of at least two sciences, and usually also of mathematics. This training may be obtained in the first three years of undergraduate study and the interrelated work begun in the senior year and continued in the Graduate School.

Through the grant, the College is also able to offer both undergraduate and graduate scholarships to students who wish to prepare themselves for future work in these extremely fruitful areas of scientific investigation. The chairman of the departments
Curriculum for the Classes of 1967 and 1968

The undergraduate curriculum is designed to achieve two main purposes: to give a broad and sound education in the liberal arts and sciences, and to provide adequate preparation for advanced study for those students who wish to enter graduate and professional schools.

In order to assure breadth in the curriculum the College has established the following requirements which must be met by all candidates for the A.B. degree regardless of their choice of major subject: (1) Freshman English composition, (2) History of Philosophic Thought, (3) one course in the natural sciences, (4) one course in literature and (5) one course in the social sciences or history. These requirements may be met by (a) completing successfully an appropriate course at Bryn Mawr, (b) presenting the appropriate Advanced Placement Test of the College Entrance Examination Board with an honor grade, or, (c) in exceptional circumstances, completing with a grade of at least C a summer school course approved in advance by the department concerned and by the Dean. Each student must also demonstrate a knowledge of two foreign languages. This may be done by (1) attaining a score of 590 on a College Board achievement test, taken in the senior year of high school, or, by passing with an honor grade an Advanced Placement Test, (2) passing examinations offered by the College every spring and fall, or (3) passing with a grade of at least 70 a college course above the elementary level before the senior year.

The major subject, chosen at the end of the sophomore year, is combined with work in allied subjects. The purpose of the major subject is to give each student the kind of training that continuity in the study of one field of knowledge provides. As she progresses toward more complex advanced work she acquires a deeper insight into the fundamental principles and general concepts of her subject. At Bryn Mawr the Departments offering major courses of study are: Biology, Chemistry, Classical and Near Eastern Archaeology, Economics, English, French, Geology,

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1. The grade of 5 is required in English and in History.
2. Students admitted under the Early Decision Plan may offer tests taken in the junior year in high school.
German, Greek, History, History of Art, Italian, Latin, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Russian, Sociology and Anthropology, Spanish. The Departments of Education and History of Religion offer elective work which may be allied with certain major subjects but no separate majors.

Each major department offers Honors work to a number of its senior students who have demonstrated unusual ability. Honors work is of a more advanced character than that done in the regular courses and requires more initiative and power of organization than is usually expected of undergraduate students. Such work may be carried on in connection with an advanced course or may be planned especially for individual students. It usually includes independent work of a critical and analytical nature with source material, periodic reports and the preparation of an Honors paper. To be eligible a student must have completed two years of study in the major subject, and her candidacy must be approved by the Dean and the Curriculum Committee. The Honors work must be undertaken in addition to at least one full unit of advanced course work.

For students through the Class of 1968, the minimum of $15\frac{1}{2}$ units of work for the A.B. degree is distributed as follows: $4\frac{5}{2}$ units meet general college requirements, approximately 7 units constitute work in the major subject including allied work and the preparation for the Final Examination in the Major Subject, required of all students. The remaining units ($3\frac{4}{2}$) are for courses to be elected freely by the student. Each full year course is the equivalent of one unit of work and each course constitutes one quarter of a student's working time for one year. For the information of transfer students, one course is the equivalent of 8 semester hours. In most cases, Freshmen, Sophomores and Juniors take 4 units of work and Seniors 3\frac{1}{2}, including the unit of preparation for the Final Examination in the major field. This preparation usually consists of independent reading and conferences with members of the major department designed to review and correlate the material covered in the major.

Numerical grades on the scale of 100 are given in all courses counting for the degree. Each student must attain a grade of 70 or above in at least half of these courses and a grade of at least 60 in the remainder. In all courses in her major subject, she must attain grades of 70 or above. Should she receive a grade below 70 in a second-year or advanced course in the major subject, she may be required to change her major.
included in this plan (Biology, Chemistry, Geology, Mathematics, Physics, Psychology) will be glad to see students interested in it and to advise them about their courses of study. Such students should consult with the chairmen of the departments in which their special interests lie as early as it is possible to do so.

INTERDEPARTMENTAL COURSES

Each year, certain courses are offered which cut across well-defined areas of knowledge and emphasize relationships among them. Such courses are taught by two or more members of the faculty working in close cooperation. Since the material considered requires some background in at least two disciplines, the interdepartmental courses are usually offered at the advanced level, the exception being Interdepartmental 102, *Introduction to Chemistry and Physics*. For students who have progressed to the more complex aspects of their major subjects, the interdepartmental courses provide an opportunity to apply their training to new and broader problems and to benefit from the experience of seeing their own subject from the points of view of several specialists. To facilitate free discussion registration is generally restricted to a limited number of well-qualified students.

LANGUAGE HOUSES

Three small residence halls serve as language houses for upperclassmen who wish to speak French, Spanish or German. Sophomores, juniors or seniors who wish to live in a language house should apply to the head of the appropriate department. Adequate preparation in the language is a prerequisite and those who are accepted agree not to speak English at any time. Residence in a language house provides an excellent opportunity to gain fluency in speaking a foreign language and is highly advisable for students planning to spend the junior year abroad.

INSTITUT D'ÉTUDES FRANÇAISES D'AVIGNON

Bryn Mawr College offers a summer program of intensive work in significant aspects of French culture. The program is open to men and women students from other colleges. Certain of the courses carry graduate credit. The *Institut* director and faculty members are French professors teaching in colleges and universities in the United States and France. Classes are held in the
Palais du Roure and the facilities of the Bibliothèque Calvet are available to the group. Students live with families in Avignon. Applicants for admission must have strong academic records and have completed a course in French at the third-year college level or the equivalent. For detailed information concerning admission, curriculum, fees, academic credit and scholarships, students should consult Dr. Michel Guggenheim of the Department of French.

CENTRO DE ESTUDIOS HISPANICOS

Bryn Mawr College offers a summer program of intensive work held in Madrid, Spain. The program, under the direction of a member of the Department of Spanish, is open to men and women students from other colleges. The instructors are members of college and university staffs who are familiar with teaching standards and practices in this country.

Courses are offered both for the student whose interest is Spain and for the student who wishes to specialize in Latin American affairs. Students live with Spanish families. All participate in study trips and attend an excellent series of carefully planned lectures and cultural events. Applicants must have strong academic records and must have completed the equivalent of three years of college-level Spanish. For information students should consult Dr. Phyllis Turnbull of the Department of Spanish. A modest number of scholarships is available each year. The Centro was made possible by a grant from the Henry L. and Grace Doherty Charitable Foundation of New York.

THE JUNIOR YEAR ABROAD

Qualified students may apply for admission to certain groups which offer a junior year in Europe. Bryn Mawr students may study in Paris under the junior year plans sponsored by Sweet Briar College or Smith College; in Geneva, Florence, Hamburg, or Madrid with groups organized by Smith College, or in Munich or Freiburg with the group sponsored by Wayne University. Applicants must have excellent academic records and must give evidence of competence in the language of the country in which they plan to study. In general, two years of study at the college level are necessary to provide adequate language preparation. The junior year groups are not limited to language majors; they often include majors in, for example, History of Art, History
or the social sciences. All students who plan to study abroad should consult the chairmen of their major departments to be certain that the work done in Europe may be coordinated with the general plan for the major subject.

SCHOLARSHIPS AND OTHER STUDENT AID

All students are, strictly speaking, on scholarship in the sense that their tuition fees do not wholly cover the costs of instruction. To those students well-qualified for education in liberal arts and sciences but unable to meet the college fees, Bryn Mawr is able to offer further scholarship aid. Alumnae and friends of the College over many years have built up endowment for scholarships. Annual gifts from alumnae and alumnae clubs and from industrial and professional groups add to the amounts available each year. It is now possible to provide at least partial scholarships for one quarter to one third of the undergraduate students in the College. Full information about the scholarships available and other forms of help for meeting the expenses of college education will be found in the section, Financial Aid.
Courses of Study
1966/1967

Key to Course Numbers and Symbols

1, 2, 3 .............indicate elementary and intermediate courses. With the exception of Greek 1 and Russian 1 these courses are not part of the major work.

101, 102, etc. ........indicate first-year courses in the major work.

201, 202, etc. ........indicate second-year courses in the major work.

301, 302, etc. ........indicate advanced courses in the major work.

* .................indicates elective courses, open to all students without prerequisite unless a specific prerequisite is stated.

a ..................the letter “a,” following a number, indicates a half-course given in the first semester.

b ..................the letter “b,” following a number, indicates a half-course given in the second semester.

c ..................the letter “c,” following a number, indicates a half-course given two hours a week throughout the year.

[ ] ..............Square brackets enclosing the title of courses indicate that these courses are not given in the current year.

In general, courses which are listed as full-year courses must be carried through two semesters. In some cases one semester of such a course may be taken with credit, but only with permission of the Dean of the College and the Department concerned. Students are reminded that one unit of work carried throughout the year is the equivalent of eight semester hours, or eleven quarter hours.

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Anthropology

Professor: Frederica de Laguna, Ph.D., Chairman
Assistant Professors: Herbert L. Alexander, Jr., M.A.
Jane C. Goodale, Ph.D.
Visiting Lecturer: A. Irving Hallowell, Ph.D.

The aim of the major is to introduce the student to an understanding of man and his works, human evolution, the origin and development of culture, and the basic cultural patterns and social institutions in diverse societies. The advanced courses explore special fields or areas, and also discuss theories about cultural processes and the nature of culture itself.

Requirements in the Major Subject: 101, 203a & b, 204 or 208a and b, and a unit of advanced work.


101. Man, Culture and Society: Mr. Alexander, Miss Goodale, Miss de Laguna.

Man's place in nature and the development of his capacity for culture; the history of human culture to the rise of the early civilizations in the Old and New Worlds; forms of culture and society among primitive peoples.

203a. Primitive Society: Miss Goodale.

Analysis of social organization of pre-literate societies. Prerequisite: Anthropology 101.

203b. Primitive Culture: Miss Goodale.

Analysis of significant studies of culture illustrating problems in ethnography. Prerequisite: Anthropology 203a.

204. American Archaeology: Mr. Alexander.

Development of aboriginal American cultures from prehistoric to historic times; introduction to archaeological theory and methods, including laboratory and field experience. Prerequisite: Anthropology 101 or 209b, or by permission of instructor.


The history and development of folk music; a comparative study. The materials studied will be taken from the cultures of Africa, the American Indians and others.
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[206b. * Native Cultures of Latin America: Mr. Alexander.]

[208a. Human Evolution.]

Prerequisites: Anthropology 101, Biology 101 or Geology 101, or by permission of instructor.

[208b. Old World Prehistory.]


Contemporary hunting and gathering peoples in the old and new worlds; their adjustments to their natural environments; their relation to stone age cultures of the past, their contributions to and relations with modern civilized cultures.

209b. The American Indian: Mr. Alexander.

The Indians of Middle and North America as presented in such literary sources as reports of early explorers, anthropological novels, and native autobiographies, revealing ethos and cultural values.

301a. Cultural Theory: Miss de Laguna.

Analyses of the important classical and modern contributions. Prerequisite: Anthropology 203a & b, or by permission of instructor.

302b. Cultural Dynamics: Mr. Hallowell.

Prerequisite: 301a, or by permission of instructor.

[303a. Ethnological Problems in Oceania.]

Prerequisite: Anthropology 203a & b.

[304a. Culture and Personality: Miss de Laguna.]

The relation of human nature to culture and its variations in different cultural settings. Prerequisite: Anthropology 203a, or by permission of instructor.

Final Examination: The Final Examination for students majoring in Anthropology is in three parts:

1. General Anthropology.
2. History and Theory.
3. A special field or project in Anthropology, or an allied field.

Conferences in preparation for these examinations are offered in the form of a Senior Seminar.

Honors Work: Honors work is offered to students of marked ability, and will consist of independent reading, reports and conferences, and the preparation of a written report.
The courses offered are designed to present the principles underlying biological science to liberal arts students interested in man's understanding of the world in which he lives and his own position in it. Primary consideration is devoted to the interplay of development, structure and function in determining the unity and diversity which characterize the plant and animal kingdoms, and to the historical and dynamic interrelationships of living organisms with each other and with their environments. In the laboratory the student learns by dissection and microscopic study the gross and detailed anatomy of representative animals and plants, and by experimentation the functional relationships within them and their operation under natural and controlled experimental conditions.

Requirements in the Major Subject: Biology 101, 201, and at least two advanced courses and, as allied work, Chemistry 101 and 202. Physics 101, Mathematics 101 and Chemistry 201 are strongly recommended as allied work and are required for admission to some medical schools. The Biology Department has no special language requirements, but students should note that the ability to read French and German is essential for those expecting to do graduate work and is required for admission to some medical schools.

Allied Subjects: Chemistry, Physics. Other subjects may be included with the approval of the Department.

101. General Biology: Mr. Berry, Mr. Conner, Miss Powell, Miss Barnett. Laboratory: Mrs. McConnell and assistants.

A presentation of the fundamental principles of development, structure and function in organisms. A wide range of plants and animals is studied to illustrate broad biological problems and theories of historical and contemporary interest. Lectures three hours, laboratory three hours per week.

201a. The Biology of Vertebrates: Miss Powell.

A study supplementing that of the first-year course, of the anatomy of representative vertebrates, their embryology and natural history. Lectures three hours, laboratory four hours per week. Prerequisite: Biology 101.

201b. The Biology of Plants: Mr. Hopkins.

Fundamental principles of plant structure and function with emphasis on their relationship to the environment. Lectures three hours, laboratory four hours per week. Prerequisite: Biology 101.

301a. Genetics: Miss Barnett.

A study of the basic principles of genetics and the modern developments in the field. Lectures three hours, laboratory four hours per week. Prerequisites: Biology 101 and 201. The prerequisite of Biology 201 may be waived with permission.

302a. Plant Physiology: Mr. Hopkins.

A study of the functional problems characteristic of plants. Lectures three hours, laboratory four hours per week. Prerequisites: Biology 101, Chemistry 101, Biology 201, Chemistry 202. Chemistry 202 may be taken concurrently.


A study of the composition of the activities of the cell in terms of physical and chemical processes. Lectures three hours, laboratory four hours per week. Prerequisites: Biology 101, Chemistry 101, Biology 201, Chemistry 202. Chemistry 202 may be taken concurrently.

304b. Vertebrate Physiology: Mr. Berry.

A study of the function and regulation of selected organ systems in higher vertebrates. Lectures three hours, laboratory four hours per week. Prerequisites: Biology 101, Chemistry 101, Biology 201, Chemistry 202. Chemistry 202 may be taken concurrently.
351. *Advanced Genetics and Evolution*: Miss Barnett.

Selected topics in protozoan genetics (semester I) and mechanism of evolution (semester II). Each semester may be taken independently for one-half unit of credit. Lectures three hours per week. No laboratory. Prerequisite: Biology 301a.

[352. *Advanced Plant Physiology*: Mr. Hopkins.]

A study of recent advances in plant physiology with emphasis on the problems of growth and development. Lectures two hours, laboratory six hours per week. Prerequisites: Biology 302a, Chemistry 202. Chemistry 202 may be taken concurrently.

353. *Biochemistry*: Mr. Conner.

The chemistry of living organisms with special emphasis on the chemical principles in physiological phenomena. Lectures two hours per week. Prerequisites: Chemistry 202, Biology 303b; one or both of these prerequisites may be waived by permission of the Department. Physics 101 is recommended. This course may be taken without laboratory for one-half unit of credit by students concurrently taking Chemistry 203, an advanced course in Chemistry or Honors in Biology.


An introduction to the fundamental physiological and biochemical principles associated with studies of micro-organisms, including host-parasite relationships and other interactions between organisms. Major emphasis is given to bacteria and bacteriological techniques. Lectures two hours, laboratory six hours per week. Prerequisites: Biology 101 and 201, Chemistry 202.


Discussion of factors controlling growth and differentiation in vertebrates and invertebrates. Lectures two hours, laboratory six hours per week. Prerequisites: Biology 101 and 201.

**Honors Work**: Honors work in any of the advanced fields is offered to qualified students.

**Final Examination**: The Final Examination consists of one four-hour general examination covering the areas of study of the four years of undergraduate work and two four-hour examinations in specific fields. Students who elect Honors work are excused from one of the field examinations.
Chemistry

Professors: 

**Ernst Berliner, Ph.D.**
Chairman

**George L. Zimmerman, Ph.D.**

Associate Professors: 

**Frank B. Mallory, Ph.D.**

**Joseph Varimbi, Ph.D.**

Assistant Professor: 

**Jay Martin Anderson, Ph.D.**

Lecturer: 

**Frances Bondhus Berliner, Ph.D.**

Assistants: 

**Penny Jane Gilmer, A.B.**

**Jane Samuels, B.S.**

Appointments to be announced.

The major in Chemistry is designed to give the student a sound background in the four major fields of Chemistry: Inorganic, Analytical, Organic and Physical Chemistry. The courses are arranged in such a sequence as to convey an insight into the development of chemical theories from basic scientific principles. In the advanced courses the student begins to be acquainted with current problems in special fields and with modern approaches to their solutions. The emphasis throughout is on the fundamental principles on which Chemistry is based and which are exemplified and further clarified by laboratory work taken in conjunction with each course.

Requirements in the Major Subject: Chemistry 101 or 102, the three 200 courses and one unit of advanced work (exclusive of Chemistry 304a). Physics 101, Mathematics 101 and a reading knowledge of German are also required. Students are urged to take also Mathematics 201.

Allied Subjects: Biology, Geology, Mathematics, Physics.

101a. General Chemistry: Mr. Anderson, Mrs. Berliner and assistants.

An introduction to the theories of chemistry and the study of the non-metals. Introductory quantitative techniques. No knowledge of chemistry is presupposed. Three lectures, three hours laboratory a week.
101b. *General Chemistry*: Mr. Berliner, Mrs. Berliner and assistants.

Ionic equilibria and the systematic qualitative analysis of inorganic substances. A study of the metallic elements. Three lectures, three hours laboratory a week.

102. *Introductory Chemistry and Physics*: Mr. Michels, Mr. Varimbi, Miss Hoyt.

See Interdepartmental Course 102, page 127.

201a. *Quantitative Analysis*: Mr. Varimbi.

Theories and practice of the quantitative determination and separation of inorganic substances, and of chemical instrumentation. Two lectures, eight hours laboratory a week.

201b. *Inorganic Chemistry*: Mr. Varimbi.

A systematic study of the descriptive and theoretical chemistry of the elements and their compounds based on the Periodic Table. Three lectures, four hours laboratory a week.


First semester: aliphatic chemistry; second semester: aromatic chemistry and natural products. Three lectures, five hours laboratory a week.


Structure and kinetic-molecular theory of matter, elementary thermodynamics and chemical kinetics. Two lectures and one conference, five hours laboratory a week. Prerequisites: Mathematics 101, Physics 101 and Chemistry 201a. (The latter two may be taken concurrently.)

301b. *Advanced Inorganic Chemistry*: Mr. Varimbi.

Two lectures a week.

302a & b. *Advanced Organic Chemistry*: Mr. Mallory, Mr. Berliner.

Lectures: theories and fundamental principles of organic chemistry. Laboratory: (first semester) organic qualitative analysis; (second semester) advanced synthesis and laboratory techniques. Two lectures, six hours laboratory a week. The first semester may be taken without the second (½ unit).

303a. *Chemical Thermodynamics*: Mr. Zimmerman.

Two lectures and one conference a week. Laboratory in the second semester only: six hours a week.
303b. Quantum Mechanics of Atoms and Molecules: Mr. Anderson.
Two lectures and one conference a week. Prerequisite: Chemistry 304a.

304a. Applied Mathematics for Chemists: Mr. Anderson.
Two lectures and one conference a week. Prerequisite: Mathematics 201, or the equivalent.

FINAL EXAMINATION: The examination consists of three parts:

For one of the subjects above, an examination in an allied subject, covering at least two years of work, may be offered.

HONORS WORK: Honors work may be taken by qualified students in conjunction with any of the advanced courses.

Classical and Near Eastern Archaeology

PROFESSOR: Machteld Johanna Mellink, Ph.D., Chairman
ASSISTANT PROFESSORS: Kyle M. Phillips, Jr., Ph.D.1
Brunilde Sismondo Ridgway, Ph.D.
ASSISTANT: Louise A. Alpers, A.B.

PROFESSOR OF ANTHROPOLOGY: Frederica de Laguna, Ph.D.
ASSISTANT PROFESSOR OF GREEK AND LATIN: T. Leslie Shear, Ph.D.

The major courses provide an extensive survey of the ancient Mediterranean civilizations, with emphasis on the Greek arts of sculpture, architecture and vase-painting.

REQUIREMENTS IN THE MAJOR SUBJECT: Archaeology 101, 201b, 203, 205b and 301.

ALLIED SUBJECTS: Ancient History, Anthropology, Greek, History of Art, Latin.

An Introduction to Ancient Art: Mrs. Ridgway.

In the first semester a general survey of the evolution of ancient art is given, beginning with the Egyptian and Mesopotamian heritage, its importance to Aegean art and to the origins of Greek art proper. The major achievements of archaic and classical Greek art are discussed in some detail.

In the second semester the principal features of Hellenistic, Etruscan and Roman art in Italy and throughout the Mediterranean world to the end of the Roman Empire in the West, ca. A.D. 476, are studied.

A fourth hour weekly is devoted to informal discussion.

Egyptian and Mesopotamian Archaeology: Miss Mellink.

An introduction to the cultures of the ancient Near East, stressing their origins and the rise of local traditions.

Cultural History of Archaeology: Miss Mellink.

The development of archaeology through the ages: antiquarian interests, early excavations and travels, the position and future of archaeology as a modern discipline.

Ancient Greek Cities and Sanctuaries: Mrs. Ridgway.

A course considering in a comprehensive way the ancient form and general cultural importance of such sites as Athens, Delphi and Olympia, with emphasis on the history, religion and mythology connected with each center.

Greek Sculpture: Mrs. Ridgway.

The development of Greek sculpture from its beginnings to Roman times. The term paper deals with a piece of sculpture selected by the student.

Later Greek and Roman Sculpture: Mr. Phillips.

The development of Roman sculpture from its beginnings in Etruscan and Greek Italy and the Hellenistic world to the end of the Roman Empire in the West, ca. A.D. 476. The term paper deals with individual monuments or groups of sculpture selected by the student.

Aegean Archaeology: Mr. Shear.

The pre-Greek cultures of the Aegean area; Minoan Crete and related cultures, the encounter of pre-Greeks and Hellenes; the first consolidation and expansion of Greek culture in the Mycenaean age.
301a. *Greek Vase-Painting*: Mr. Phillips.

The development of Greek vase-painting as an original form of art, its relation to monumental painting, and its place in Greek archaeological research.


The ancient architectural tradition in its historical context, with study of the Greek temple as its dominant achievement.

[302a. *The Greek Style in Art*: Miss Mellink.]

An analysis of the originality and consistency of style in the various fields of Greek art. The course will be conducted as a discussion group with reports and a term paper. Prerequisites: Classical and Near Eastern Archaeology 101, 201, 203, 301.

[303. *Anatolian and Syrian Archaeology*: Miss Mellink.]

A comprehensive course on Near Eastern archaeology with special emphasis on the peripheral and intermediate areas and their connections with the Aegean. Prerequisites: Archaeology 101, 201, 203, 301. The course is meant for seniors and is taught in the form of a seminar with papers and reports.


The arts of wall-painting and mosaics in Greece and Italy.

**Final Examination:** Three examinations on any three of the fields covered by the undergraduate courses, but with questions of broader scope involving more extensive knowledge. During their senior year majors attend weekly one-hour conferences in each of their selected fields. If a student wishes, she may write one of the three examinations in an allied field. Students are encouraged to take one of the three examinations in Greek.

**Honors Work:** A long written paper is submitted on a topic selected by the student and approved by the Department. In preparation, the student confers throughout the year with the member of the Department under whose direction the paper is prepared.

**Excavations:** The current excavation project as part of the graduate program of the Department is an investigation of the Bronze Age habitation of Southwestern Anatolia (more specifically ancient Lycia) and will continue in the fall of 1966.
Economics

Professors: Morton S. Baratz, Ph.D.,
Chairman
Joshua C. Hubbard, Ph.D.1

Assistant Professors: Richard B. Du Boff, Ph.D.
George I. Treyz, A.B.

At Haverford Professors: Holland Hunter, Ph.D.
Howard M. Teaf, Jr., Ph.D.
Philip W. Bell, Ph.D.

Assistant Professor: Chiou-Shuang Yan, Ph.D.

The major in Economics consists of courses given at Bryn Mawr and at Haverford Colleges. It is designed (1) to provide students with an understanding of economic processes and institutions, (2) to train them in the concepts and methods used to analyze those processes and institutions, and (3) to enable them to make independent policy judgments.

Requirements in the Major Subject: Economics 101a and 102b, and four and one-half units of intermediate and advanced work. The introductory courses, Economics 101a and 102b, are designed to give the kind of informed perspective on economic principles and problems that is an integral part of a liberal education. The group of intermediate courses offers a fuller range of material on major topics in the discipline, and is designed to meet a wide variety of student interests. The group of advanced courses supplies a theoretical and methodological foundation for those planning to make use of economics in their professional careers. All students, especially those who intend to seek an advanced degree in Economics, are strongly urged to take Mathematics 101 or 103, which will count as part of their allied work.

Prospective majors in Economics are advised to take Economics 101a and 102b in the freshman year.

Allied Subjects: Mathematics, Political Science, History, Philosophy, Psychology, Sociology, Anthropology.

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101a. *Introduction to Economics*: Mr. Baratz, Mr. Du Boff, Mr. Treyz.

Study of the principles underlying the determination of the level of national income and employment, and the techniques and institutions which have been devised in the United States for promoting growth in output with minimum instability in prices and employment.

102b. *Introduction to Economics*: Mr. Baratz, Mr. Du Boff, Mr. Treyz.

Study of the principles underlying the determination of individual prices and incomes, the issues that arise in international economic affairs, and the problems that face poor countries.


Long-term trends in output, resources, technology; structure of consumption, production, distribution; foreign trade and finance; and shorter term variations in business activity and capital investment. Quantitative findings provide the points of departure. Prerequisite: Economics 101a, 102b.

202b. *Non-Western Economic Development*: Mr. Hunter.

An introduction to the institutional settings and economic patterns that account for underdevelopment in poor countries, and a review of efforts to overcome barriers to rapid development. Case studies of selected countries in Latin America, Africa or Asia. Prerequisite: Economics 101a, 102b.

203a. *(23 Haverford College) Technology, Work and Leisure*: Mr. Teaf.

Study of the social and personal problems arising out of rapid technological change and its effect on the labor force. Responses of unions, employers, and public authorities. Arrangements for minimizing insecurity and conflict. Prerequisite: Economics 101a, 102b or two courses in Sociology.

204b. *(24 Haverford College) The Modern Corporation*: Mr. Teaf.

An analysis of the institutional fundamentals underlying corporate decision-making, and a review of ethical issues surrounding corporate performance in contemporary society. Prerequisite: Economics 101a, 102b.


A theoretical and empirical analysis of the structure of industrial markets and the behavior of business firms in a competitive
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economy; legal restrictions on business policy; social and political implications of public regulation of private enterprises. Prerequisite: Economics 101a, 102b.


207a. Money and Banking: Mr. Treyz.

The development and present organization of the money and banking system of the United States; domestic and international problems of monetary theory and policy. Prerequisite: Economics 101a, 102b.

208b. Public Finance and Fiscal Policy: Mr. Treyz.

A study of taxation and expenditures with particular emphasis on the Federal budget; fiscal policy as a positive means of shaping public taxation and expenditure so as to contribute to a stable full-employment economy. Prerequisite: Economics 101a, 102b.


An analysis of the structure and functioning of major Soviet economic, political and social institutions. Current arrangements are studied as products of historical development. Present performance and prospects are evaluated. Prerequisite: Two semester courses in Economics, Political Science, or History.

See Interdepartmental Course 210b, page 127.

[211a. Latin American Economies and Politics: Mr. Baratz, Mrs. Marshall.]

Analysis of certain fundamental economic and political problems in Latin America. Open to students who have had at least one year of Political Science (for prerequisites, see page 111) and Economics. Preference given to those with a reading knowledge of Spanish or Portuguese.


An analysis of capitalist, socialist, mixed and communist economic organizations. Theoretical aspects (including free
market, Marxist-Leninist, and democratic socialist principles) and contemporary national cases are studied. Prerequisite: Economics 101a, 102b. Offered in alternate years.

213a. (41 Haverford College) Business and National Accounting: Mr. Teaf.

A study of the fundamentals of corporate accounting and their extension to the national accounts. Emphasis is placed on the derivation of the major reports of businesses and of the national economy. Prerequisite: Economics 101a, 102b.

[214b. Theories and Problems of Change: Mr. Hubbard.]

An analysis of the Industrial Revolution with particular reference to the pattern of dynamic growth and the Classical, Marxian, Neoclassical and Modern Theories. Prerequisite: Economics 101a, 102b. Offered in alternate years.

216b. Western European Economic Development: Mr. DuBoff.

Selected topics in the economic history of Britain, France, Germany and Italy since 1760 are examined, both theoretically and empirically. Representative topics will include economic growth, the "industrial revolution" and technological change, demographic trends, international trade and finance, the impact of the world wars, and the effects of national economic policies.

301a. Statistical Methods in Economics: Mr. Treyz.

An introduction to the concepts and procedures that underlie quantitative analysis of economic and other social data. Frequency distributions, probability and sampling, time series, index numbers, regression analysis, computer programming. Prerequisite: Economics 101a, 102b.

302b. Introduction to Econometrics: Mr. Treyz.

Quantitative methods for economic analysis and forecasting. Students may choose to emphasize either theoretical or empirical work. Each student will do a project using multiple regression. Prerequisite: Economics 301a or permission of instructor.

303a. (45 Haverford College) Macroeconomic Analysis: Mrs. Yan.

Rigorous review of the theoretical foundations of income determination, monetary phenomena, and economic fluctuations. Introduction to dynamic processes. Prerequisite: Economics 101a, 102b.

304b. (46 Haverford College) Microeconomic Analysis: Mrs. Yan.

Systematic investigation of analytic relationships underlying
consumer welfare, efficient resource allocation, and ideal pricing. Introduction to operations research. Prerequisite: Economics 101a, 102b.

[305a. (47 Haverford College) Development Analysis: Mr. Hunter.]

Theoretical treatment of the structural changes associated with the process of economic development, especially in poor countries, and rigorous analysis of criteria for policy judgments in development programming. Introduction to input-output and linear programming methods. Prerequisite: Economics 101a, 102b.


Current problems, selected in accordance with student interests, are investigated with the aid of economic theory and quantitative methods. Research paper required. Prerequisite: Economics 301a, 302b.

**Final Examination:** The Final Examination for students majoring in Economics consists of:

1. An examination in general economic principles and problems;
2. An examination in economic theory; and
3. An examination in one of the following:
   a. Monetary-Fiscal Theory and Policy
   b. Private Enterprise and Public Policy, including Corporations
   c. International Economics
   d. Comparative Economic Systems, including the Soviet System
   e. Labor Economics
   f. Economic History, American or Western European
   g. Economics of Development
   h. Quantitative Methods in Economics

With the permission of major and allied departments, one examination may deal with an allied subject.

Non-majors will be permitted to take a Final Examination in Economics if the Department of Economics judges their prior work in the discipline adequate.

**Honors Work:** One unit of Honors work may be taken by students recommended by the Department.
Education

President
OF THE COLLEGE:  KATHARINE ELIZABETH McBRIDE, Ph.D.

Professor and Director,  RACHEL DUNAWAY COX, Ph.D.,¹

Child Study Institute:  Chairman

Associate Professor and
Director, Thorne School:  SUSAN E. MAXFIELD, M.S.

Assistant Professors:  ETHEL W. MAW, Ph.D.
                    DAVID P. NOWLIS, Ph.D.

Visiting Lecturer:  MARVIN ROSEN, Ph.D.

Assistant:  LELIA BRODERSEN, M.A.

The work in Education is designed for students preparing for teaching or for work with children in a variety of fields. The curriculum treats the nature and development of the child, the psychology of teaching and learning, and principles of measurement. It deals with the history, philosophy and objectives of the school as a social institution.

Although there is no major in Education, a sequence of courses in the Department enables the student to prepare for teaching. Students expecting to teach are urged to confer with the Department during the freshman year. With careful planning at that time, work leading to the certificate to teach in the secondary school in most states can be taken concurrently with a liberal arts major. The suggested sequence includes, in the order named, General Psychology, The Social Foundations of Education, Educational Psychology, Child Psychology, History and Philosophy of Education, and Principles of Teaching in the Secondary School. The last named course includes supervised student-teaching twelve hours weekly throughout one semester.

The certificate to teach in the elementary school requires some substitutions in the list above plus additional requirements which differ from state to state. The basic work offered by this Department must be supplemented by courses taken elsewhere.

The Phebe Anna Thorne School is maintained by the Department of Education as a laboratory for child study where undergraduates have experience with young children. The pre-school program, in which advanced students assist, provides training for those planning to teach.

The Department also operates the Child Study Institute. This is a psychological and child guidance clinic supported by the College, by the Lower Merion Township Schools and by a grant-in-aid from the Commonwealth of Pennsylvania. Problems of learning and behavior are studied; psychological testing, psychiatric treatment, remedial teaching and a program of counseling for children and parents are carried on. Advanced students participate in the work, and undergraduate and graduate students observe in the schools.

Referrals also come to the Institute from the neurological and pediatric departments of the Bryn Mawr Hospital, from physicians and families, and from social agencies, giving the students the opportunity for acquaintance with a diversity of clinical material. Space and modern equipment are provided for teaching and research.


The organization and objectives of the school and principles of child development, of learning and of guidance which should be taken into account if these objectives are to be achieved.

[102b. *History of Education*: Mrs. Maw.]

A study of the interrelation of education and culture from earliest times to the present day with particular consideration given to current educational issues as they are rooted in the historical process.

[201a. *Educational Psychology*: Mr. Nowlis.]

Psychology and measurement related to educational objectives, particularly from the point of view of what is currently known about human social, affective, cognitive and learning behavior. Laboratory work is required.


The development of the child from infancy to maturity. Physical, intellectual and emotional growth and learning in the family and the school. Two hours laboratory per week in the Thorne School. Prerequisite: Psychology 101a.


The objectives, curriculum and organization of the secondary school. The nature of the learner and his relation to the school program and aims. Two-hour seminar per week; 12 hours teaching in the junior or senior high school.

The objectives and curriculum of the elementary school. The nature of the learner and the learning process during the early school years. Two-hour seminar per week; 12 hours practice-teaching in the elementary school.

[Students electing Education 301a or 302a should note that student-teaching requires returning to the Bryn Mawr area early in September. Registered students may come into residence on the last day of Freshman Week but must make their own plans for living arrangements.]

**Selected Graduate Seminars**

For undergraduates who have had the course in Child Psychology the following graduate seminars are open upon the consent of the instructor.

*Problems of Child Development*: Mrs. Cox.

*The Psychology of Exceptional Children*: Mr. Nowlis.

*The Development of Language and Thinking*: Mr. Nowlis, Miss Constantinople.

**English**

**Professors:**

Mary Katharine Woodworth, Ph.D.,
Chairman

K. Laurence Stapleton, A.B.

Warner B. Berthoff, Ph.D.

Isabel Gamble MacCaffrey, Ph.D.

**Associate Professor:**

Robert Hawes Butman, M.A.

**Assistant Professors:**

Robert B. Burlin, Ph.D.¹

Eleanor Winsor Leach, Ph.D.²

Peter J. Leach, M.F.A.

Robert L. Patten, Ph.D.

Catherine Rodgers, Ph.D.

**Visiting Lecturers:**

Edward B. Irving, Jr., Ph.D.

Jerre Mangione

To the student planning to major in English the Department offers courses covering all periods of English literature. The student selects her fields within this broad range and devotes special attention to one period or literary genre.

Requirements in the Major Subject: Students majoring in English must take English 101 or 102 unless they have the recommendation of the Department to enter a second-year course. They must complete four second-year and advanced courses in English literature, of which at least one should be an advanced course. The choice of units for the major should represent several different periods. Students who offer a field in the Middle Ages must take some courses in later periods, and those specializing in modern literature must take English 201 or 300 or 301, or, in exceptional cases, certain other courses approved by the Department. Credit will not be given for a single semester's work in full-year courses unless the Dean of the College recommends, and the Department approves, that an exception be made.

Allied Subjects: The student is advised to build a strong ally in classical or modern literature, History, Philosophy or History of Art. With the permission of the Department, certain courses in Music, History of Religion, Political Science, Sociology and Linguistics may also be counted. Any second-year or advanced writing course may be substituted for one unit of allied work.

Writing, Language, and Speech

15. *English Composition and Reading*: Mrs. MacCaffrey, Mr. Burlin, Miss Rodgers, Mr. Leach, Mrs. Leach, Mr. Patten, Mrs. Klein, Mrs. Livingston, Miss Davis, Mrs. Hoffman, Mr. Morgan, Miss Norton, Mrs. Pennypacker.

Practice in writing based upon the study of selected authors, with emphasis upon ideas and the problems of the writer in his time. The student will read fiction, poetry, and critical and argumentative prose in one of the following fields: (a) Literature
of the twentieth century; (b) American Literature, 1840 to the present; (c) English Literature of the Renaissance; (d) Themes and Forms in Literature. There will be weekly papers and discussions, and regular conferences.

In 209, 215a and 306 weekly papers are usually required. Students who cannot meet this requirement should not elect any of these courses.

209.* Experimental Writing: Mr. Mangione.
Practice in various forms of writing, fiction and non-fiction. Attention is paid to the needs and interests of each student. Prerequisite: English 15 at Bryn Mawr or the written permission of the instructor.

210a.* Playwriting and Production: Mr. Butman.
Writing of two original one-act plays.

210b.* Advanced Playwriting and Production: Mr. Butman.
Writing of a full-length play and preparation of its production-book. Prerequisite: approval of the instructor.

211.* Verse Composition: Miss Stapleton.
Original verse composition, with a study of the principles of form.

[215a.* Prose Writing: Mr. Leach.]
Practice in various forms, excluding fiction and with emphasis on exposition and description. Prerequisite: English 15 at Bryn Mawr or the permission of the instructor.

306* & 306c.* Advanced Writing: Mr. Leach.
Practice in various forms of writing with the emphasis on technical problems. Prerequisite: English 209.

LITERATURE

101. Introduction to English Literature: Miss Davis.
A critical study of major works and representative writers, with emphasis upon the historical context and the growth of literary tradition.

102a & b. Readings in English Literature: Miss Rodgers.
Readings are chosen to illustrate particularly the development of genres and the themes related to them. A different, unified group of works will be used each semester. In 1966-7, the subjects will be:
102a. Tragic and Comic Patterns.
102b. Heroic and Pastoral Poetry.

201. Chaucer: Miss Rodgers.
   The emphasis is upon Chaucer and his contemporaries. Sufficient instruction is given in Middle English to enable the student to read ordinary texts.

202. Shakespeare: Mr. Morgan.
   During the year all the plays are read, and several are studied in detail.

[203. The Romantic Period: Mr. Patten.]
   English Literature from 1789 to 1832. Attention is centered upon the poets.

204. The Victorian Period: Mr. Patten.
   Major poets and novelists, the prose of Carlyle, Mill, Ruskin and others. Some attention is given to the drama.

205. Representative English Novelists: Mr. Berthoff.
   The development of English fiction with emphasis on the novel as a literary form. In preparation for the course, students are urged to read Cervantes' Don Quixote.

206b. Restoration Drama and the Age of Dryden: Mrs. Klein.
   Heroic drama, the comedy of manners, sentimental comedy: Dryden's poetry and criticism; readings in social, religious, and philosophic writings of the Restoration.

207. English and American Literature of the Last Half-Century: Miss Woodworth.
   The modern movement, its experiments and tendencies, with concentrated study of major writers, Yeats, Joyce, Eliot and others.

208. American Literature: Mr. Berthoff.
   Main themes and formal traditions from the colonial period to the present, with intensive study of major authors.

[212b. Blake: Miss Woodworth.]
   A study of the poetry, prose, paintings and engravings of Blake, with emphasis on intellectual history and the development of art in the period.
[214a. *Philosophical Themes in Poetry*: Mrs. MacCaffrey.]

About a dozen poems of middle length by different authors will be studied intensively, with copious supplementary reading in the poets and their background.

215b. *Modern Drama*: Mr. Leach.

Chief emphasis will be on Shaw, O'Neill, O'Casey, Williams and Becket, with supplementary reading in other playwrights and in theatre history and criticism.

[300. *Old English Literature*: Mr. Burlin.]

After a brief introduction to the language and some reading of prose, the first term will be devoted to short lyrics and questions of Old English poetic style; the second term, to a careful study of the text and critical problems of *Beowulf*.

[301. *Narrative, Plays and Lyrics of the Later Middle Ages*: Miss Rodgers.]

Readings in Middle English texts (exclusive of Chaucer) with emphasis on the lyric, the romance, the mystery play and certain contemporaries of Chaucer such as Langland. Attention will also be given to the works of Malory.


Emphasis will be placed on the poetry, beginning with Wyatt, and with special attention to Spenser and the non-dramatic poetry of Shakespeare. There will also be reading in the prose writing and the background of the period.

[303a. *Elizabethan and Jacobean Drama.*]

A rapid survey of earlier periods is followed by closer study of Elizabethan and Jacobean drama, excluding Shakespeare.


Among the writers studied are Bacon; Donne and the Metaphysical poets; Ben Jonson and his school; Sir Thomas Browne. About half of the time is devoted to Milton, and special attention is given to the thought of the period.


The age of Pope and Swift; the rise of the novel; Dr. Johnson and his circle.

A study of the heroic traditions in medieval epic and romance. Continental and Old English works will be read in translation. A reading knowledge of classical epics will be expected.

**Final Examination:** The Final Examination is in three parts:

1. Literary criticism, literary genres, and problems of style based upon the reading of certain critical works of fundamental importance. Each student is expected to draw illustrative material from the fields in which she has elected to work.

2. An examination in one of the following periods. The student must choose a period other than that which embraces her special field.
   a. The Middle Ages (to 1500)
   b. Later Middle Ages and Early Renaissance (1370-1600)
   c. The Renaissance (1500-1660)
   d. Neo-Classicism and Romanticism (1660-1832)
   e. The Nineteenth and Twentieth Centuries (English or English and American)

3. An examination in one of the following fields of concentration: Old English; Middle English; The Drama to 1642; Elizabethan Literature, non-dramatic; The Seventeenth Century; The Eighteenth Century; Romanticism; Victorian Literature; The Novel; The Drama from 1660 to the Present Time; English and American Literature, 1890-1939; American Literature.

   With the consent of the Department an examination in an allied subject may be substituted for the examination in the special field.

**Honors Work:** In the senior year Honors work, consisting of independent reading, reports and conferences, is offered to students of marked ability. Honors papers are due on May 3.
The major in French includes work in both literature and language. In the first year students are introduced to the study of French literature, and special attention is given to the speaking and writing of French. Two second-year courses treat French literature from the beginning to the present day. In these courses, students whose command of written French is inadequate will be required to attend regularly sessions devoted to special training in writing French. A third second-year course is devoted to advanced language training with practice in spoken as well as in written French.

Advanced courses offer detailed study of individual authors, genres and movements. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In French 1, 2, and 203C, the use of the Laboratory forms an integral part of the course. French majors find it valuable to supplement the work done at Bryn Mawr by study abroad either during the Junior Year or during the summer at the Institut in Avignon. Residence in French house for at least one year is advisable.

Requirements in the Major Subject: French 101, 201, 202 and one advanced literature course. Students whose preparation for college has included advanced work in language and literature may, with the consent of the Department, be admitted to French 201, and substitute an advanced course for French 101. Occasionally, students with exceptional preparation in French may be admitted to seminars in the Graduate School. Such arrangements are made at the suggestion of the Department.

Allied Subjects: Any other language or literature, European History, History of Art, Music, Philosophy.

1. **Elementary French**: Miss Jones, Miss Lafarge.

The speaking and understanding of French are emphasized, particularly during the first semester. The course meets five times a week.

2. **Intermediate French**: Miss Ginsberg, Miss Lafarge.

The emphasis on speaking and understanding French is continued, texts from French literature are read, and short papers are written in French.


The works read are chosen from various periods and genres, and include drama, poetry, novels and short stories. Oral expression and practice in writing are emphasized.

201. **French Literature from the Chanson de Roland to 1800**: Mr. Guggenheim, Mrs. Ginsberg, Miss Lafarge.

202. **French Literature from 1800 to 1950**: Mr. Maurin, Mr. Guggenheim, Miss Jones.

203c. **Advanced Training in the French Language**: Mr. Guggenheim, Miss Jones.

[301. **French Lyric Poetry**: Mrs. Ginsberg, Miss Jones.]

In the first semester special attention is given to the poetry of the sixteenth and early seventeenth centuries, and in the second, to the poetry of the last hundred years.

302. **French Drama**: Mrs. Ginsberg, Miss Jones.

Special study is made of the drama of the seventeenth and twentieth centuries.

303. **The French Novel from 1700 to 1950**: Miss Lafarge, Mr. Guggenheim.

[304. **French Essayists and Moralists**: Mr. Guggenheim, Mr. Maurin.]

Man and his world as interpreted by such writers as Montaigne, Pascal, Diderot, Gide, Camus and Sartre.

305a. **Realism and Naturalism**: Mr. Maurin.

While centered on the works of Flaubert and Zola, the course explores the broader significance of Realism and Naturalism in the general cultural attitudes of the period and their expression in the works of selected minor writers.
JUNIOR YEAR ABROAD: Students majoring in French may, by a joint recommendation of the Dean of the College and the Department of French, be allowed to spend their junior year in Paris under one of the junior year plans, organized by Sweet Briar College or Smith College.

SUMMER STUDY: Students wishing to enroll in a summer program may apply for admission to the Institut d'Études Françaises d'Avignon, which is held under the auspices of Bryn Mawr College. The Institut is designed for selected men and women undergraduates with a serious interest in French culture, most particularly for those who anticipate professional careers requiring a knowledge of the language and civilization of France. The curriculum includes general and advanced courses in French language, literature, history and art. The program is open to students of high academic achievement who have completed a course in French at the third-year college level, or the equivalent.

FINAL EXAMINATION: The Final Examination is in three parts:
1. An oral examination to test the student's command of the French language.
2. A three-hour written examination on a period of French literature.
3. A three-hour written examination on the development of a literary genre through French literature.

An examination in an allied subject may be substituted for one of the two written examinations.

HONORS WORK: On the recommendation of the Department, students in their senior year will be admitted to Honors work consisting of independent reading, conferences and a long paper.
Geology

Professors: Edward H. Watson, Ph.D.,
Chairman
Lincoln Dryden, Ph.D.

Assistant Professors: Maria Luisa B. Crawford, Ph.D.
William A. Crawford, Ph.D.

Assistants: Thora Johannson, A.B.
Mercedes Catherine Reilly, A.B.

Appointment to be announced.

The Department seeks to make students more aware of the physical, natural world around them; to teach them how the present landscapes have been formed, and how modern plants and animals have evolved from earlier kinds. Physical processes like erosion, volcanic activity, and earthquakes form one large part of the subject; the history of the earth and the organisms which have peopled it form another. Geology borrows widely from its sister sciences, combining many disciplines into an attack on the problem of the earth itself. An essential part of any geologic training lies beyond the classroom, in field work.

Requirements in the Major Subject: Geology 101, 201, 202, one advanced course. In addition, at least one of the following first-year courses is normally required: Biology, Chemistry, or Physics. The sixth unit may be chosen in Geology or in an allied field approved by the Department.

Allied Subjects: Biology, Chemistry, Physics, Mathematics. Anthropology, Archaeology, Economics or Statistics may be accepted in special cases.

101a. Physical Geology: Mr. Watson and Members of the Department.

A study of the atmosphere, weathering, stream action, oceans, glaciers, earthquakes and volcanoes, and of the structures to which they give rise. Three lectures, four hours of laboratory or field work a week.
101b. Historical Geology: Mr. Dryden and Members of the Department.

The history of the earth from its beginning, and the evolution of the living forms which have populated it. Three lectures, four hours of laboratory or field work a week. A three-day field trip is taken in the spring.

[201a. Crystallography: Mrs. Crawford; 201b. Mineralogy: Mr. Watson.]

Crystallography, elementary crystal optics, descriptive and determinative mineralogy, and elementary petrology and economic geology. Three lectures, six hours of laboratory a week.

202. Paleontology: Mr. Dryden.

A systematic survey of animal groups in geologic time; in addition, a study of the environment of fossil life, and theories of evolution. Three lectures and three hours of laboratory a week.

301. Structural and Field Geology: Mr. Watson.

The origin and analysis of the structures of igneous, sedimentary and metamorphic rocks, and geological surveying. Three lectures, six hours of laboratory or field work a week.

[302. Stratigraphy: Mr. Dryden.]

The origin and formation of sedimentary rocks; geologic history of typical regions of the United States; elements of petroleum geology; and study of the Ice Age.

Final Examination: This is in three parts:
1. An examination in General Geology.
2. An examination in some special field in Geology.
3. One of the following:
   a. An additional special examination in Geology
   b. A general examination in an allied field
   c. A written report on a piece of individual work

Honors Work: Honors work in any of the advanced fields is offered to any student who has completed the first two years in Geology with distinction.

Certain graduate courses are open to properly trained undergraduates.
The purpose of the major in German is to lay the foundation for an understanding and appreciation of German literature and civilization. To this end comprehension of the German language, of both the spoken and the printed word, is indispensable; all courses above German 1 are therefore given in German and progressive linguistic training is provided. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In German 1 and 102c the use of the Laboratory forms an integral part of the course. This work should be supplemented, whenever possible, by living in the German House, or by spending a summer in one of the summer schools of Germany, Austria or Switzerland; and/or by spending the junior year in Germany.

Requirements in the Major Subject: The normal course sequence for the major is German 101, 102c, 202, and at least one advanced course. Special consideration is given to students who have supplemented their linguistic training as outlined above.

Allied Subjects: Any language or literature, History, Political Science, Philosophy, Music, History of Art.

1. Elementary German (Speaking and Reading): Members of the Department.

   The course, meeting five times a week, offers the foundation of the language with emphasis on the aural-oral method. Increased importance is given to reading as the course progresses.

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   Introduction to the main periods of German literature. Interpretation of texts from the early period to the present.

102c. *German Conversation and Composition*: Mr. Vordtriebe, Mr. Schmidt.
   Active use of the language in speaking and writing; discussion of topics; compositions; reports.

202a & b. *The Age of Goethe*: Mr. Schweitzer.
   German literary movements in the period 1750-1830, with emphasis on the works of Lessing, Goethe, Schiller, and the Romantics.

300a. *German Literature from the Beginnings to the Baroque*: Mr. Schweitzer.
   An intensive survey of the literature of the Middle Ages, Humanism and the Reformation, and representative works of the 17th century. The older works will be read in modern German translations.

301b. *Introduction to Germanic Philology*: Miss Dorian.
   History of the language situation in the German-speaking world from the earliest records until the present day.

302b. *German Language and Literature of the Middle Ages*: Miss Dorian.
   Introduction to the German language and culture of the Middle Ages. Reading of representative works such as *Der arme Heinrich*, *Tristan* and selections from *Minnesang*. Works will be read in the original language.

303. *The Classics of the Nineteenth Century*: Mr. Schmidt.
   A survey of German literary developments from the death of Goethe to Nietzsche and Hauptmann, with special emphasis on the great dramatists and lyric poets.

304a. *Modern German Literature*: Mr. Vordtriebe.
   The course will concentrate on recent developments of the short story and modern parable.

305a. *The German “Novelle”*: Mr. Schmidt.
   Discussion of the evolution of this form, and close analysis of representative works.
The German Drama: Mr. Schweitzer.
Study of various dramatic forms. Emphasis on parallel European and modern developments.

German Poetry: Mr. Schmidt.
Study of the work of major poets from a number of literary periods. Various critical approaches will be discussed and used.

Haverford College
19th Century Literature. Mr. Cary.
German Lyric Poetry. Mr. Pfund.
Faust. Mr. Pfund.
Advanced Topics: Bertolt Brecht. Mr. Cary.

Final Examination: The Final Examination is in three parts:
1. An oral examination on selected masterpieces of German literature.
2. An examination on the history of a literary form, or on the history of the German language, or on an allied subject.
3. An examination on a period of German literature, or on an allied subject, if none has been offered under 2.

Honors Work: On recommendation of the Department, students in the senior year will be admitted to Honors work consisting of independent reading, conferences and a substantial paper.

Greek

Professors: Richmond Lattimore, Ph.D., Litt.D.
Mabel Louise Lang, Ph.D., Chairman

Assistant Professor: T. Leslie Shear, Ph.D.

The courses in language and literature are designed to acquaint the students with the various aspects of ancient Greek culture through a mastery of the Greek language and a comprehension of Greek mythology, religion and the other basic forms of expression through which that culture developed. The works of poets, philosophers and historians are studied both in their historical context and in relation to subsequent Western thought.
Requirements in the Major Subject: Greek 1, 101, 102 (half-unit), 201 and 301.

Allied Subjects: Ancient History, Classical Archaeology, History of Art, any language, Philosophy.

1. Elementary Greek: Miss Lang.
   Elements of grammar with prose composition and selected reading from ancient authors and the New Testament in the first semester; in the second semester, the Apology and Crito of Plato.

101. Herodotus and Tragedy: Miss Lang, Mr. Lattimore.
   Prose composition is required.

102. Homer: Mr. Lattimore.
   Verse composition is attempted.

201. Plato, Thucydides and Tragedy: Mr. Shear.
   Prose composition is required.

[301. Hesiod, Lyric Poetry and Comedy.]

203.* Greek Literature in Translation: Miss Lang, Mr. Lattimore.
   The epic, lyric and dramatic poetry as well as the early prose works are examined and interpreted as expressions of Greek culture.

Final Examination: The Final Examination for students majoring in Greek consists of:
1. Sight Translation of Greek to English.
2. Two examinations from the following fields: Homer, Attic Tragedy, Lyric Poetry and Aristophanes, Fifth-Century Historians, Fourth-Century Attic Prose. A student may substitute for one of these, an examination in one of the Allied Subjects.

Honors Work: Honors may be taken either in conjunction with the advanced course or after its completion.
History

Professors: Caroline Robbins, Ph.D., Chairman
Arthur P. Dudden, Ph.D.

Assistant Professors: Charles M. Brand, Ph.D.
Mary Maples Dunn, Ph.D.
Barbara M. Lane, Ph.D.
Alain Silvera, Ph.D.\(^1\)

Instructor: Mary Ann Calkins, M.A.
Assistant: Angeline Polites, M.A.

Assistant Professor of Greek and Latin: T. Leslie Shear, Ph.D.

The chief aim of the History major is to give the student a sense of historical perspective and an insight into historical method. The development of ideas and institutions—political, social and economic—is stressed rather than the accumulation of data about particular events. At the same time a more intensive study of certain topics and periods is required of every student in order to train her in the use of documents and to enable her to evaluate different kinds of source material. Extensive reading is assigned in all courses to familiarize History majors with the best historical writing and, in every year course except History 101, critical or narrative essays are required.

Requirements in the Major Subject: In general, students are expected to offer four units of History and two units of allied work, the selection of courses depending upon the student's desire to specialize in Modern, Medieval or Ancient History. Students concentrating in Modern History must take some work in Ancient or Medieval History. History 301 is required of all students offering Modern History for the Final Examination; History 305, for all students offering Medieval History, or an equivalent approved by the Department.

Allied Work: Courses in Economics, Sociology and Political Science are recommended for majors in History. Courses in Philosophy, the History of Art, Literature and Anthropology

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are accepted as allied work if the subject matter is related to that of the History courses elected. For students specializing in Medieval and Ancient History, Greek, Latin and Archaeology are recommended.


The purpose of this course is to give a broad view of the development of European civilization from the fall of Rome to the present, as well as a deeper understanding of special problems in European history and historical interpretation, by means of investigation of a series of selected topics. In connection with these topics, which range from the general question “What is history?” to “Renaissance Florence: The Medici as patrons, politicians, and bankers” to “The Diplomacy of Imperialism: The Congress of Berlin,” intensive reading of sources, general discussion, and independent study is required.

Students planning to major in History should ordinarily take 205 (ancient) or 101: if both seem necessary, the Department should be consulted.


The treatment is topical, although a general chronology is maintained. Prehistoric, Roman, Saxon, Norman and later English society, constitutional, economic and intellectual development are among the subjects studied. Ireland, Scotland and Wales receive special attention.

Semester I ends with discussion of the causes of the English Civil War, 1642; Semester II with changing social structure of twentieth-century Britain.

This course is open to all students. Given in alternate years.


A study of American national life in the nineteenth and twentieth centuries, the disruptions and the transformations from the original Republic.


Western European development from the fall of Rome to about 1350. Economic, institutional and intellectual developments in the major kingdoms of the West and the history of the Latin Church will be included. Given in alternate years.
204a. *Revolutionary Europe 1787-1830*: Miss Calkins.

About one half of the semester is devoted to the French Revolution; the second half to the spread of revolutionary ideas and the idea of nationalism throughout Western Europe during the Napoleonic period. The course concludes with the Vienna settlement and the Congress system.

204b. *Europe and Its Expansion in the Nineteenth Century*: Miss Calkins.

A survey of European developments, with particular emphasis on political and social history, from the age of Metternich through the age of Bismarck to the rise of imperialism. Among the topics considered are the effects of the Industrial Revolution, the Revolutions of 1848 and the growth of nationalism, the varieties of socialism and the diplomacy of imperialism.

205. *Ancient History*: Semester I, Mr. Shear
Semester II, Mr. Brand.

The first semester is devoted to study of the history of the ancient Near East and of Greece to the rise of Macedon; the second to the history of Rome and the Hellenistic world to the reign of Constantine I. The course demands essays, and reading of typical sources for each period.

207b. *Latin America: Colonies and Revolutions*: Mrs. Dunn.

Such topics as the Conquest, the transplanting of Spanish institutions and their modification in the New World, social structure, colonial economy, the Church in America, the character of revolutionary leadership, will be explored as a basis for understanding modern Latin America.

[208. *Byzantine Empire*: Mr. Brand.]

Political, institutional, and cultural history of the Byzantine (Later Roman) Empire from the reforms of Diocletian and conversion of Constantine to the capture of Constantinople in 1453. Contacts with Arabic, Turkish, Armenian, Slavic and West European peoples will be stressed.

209a. *The Emergence and Decline of States in Europe and Asia in the Seventeenth and Eighteenth Centuries*: Miss Robbins.

Among topics discussed will be: the decline of Spain, Poland, and the Mogul Empire; the ascendancy of France; the rise of
Sweden, Russia, Prussia, the Manchu Dynasty; mercantilism and the commercial revolution; the structure of absolutism, mixed monarchy and federal governments; the development and rivalries of the French, English and Dutch East India Companies; religious controversies and movements, Jesuit, Jansenist, Deist, Mystic.


A survey of the European impact on the Ottoman Empire and the Arab world in the nineteenth and twentieth centuries. Among the topics to be studied will be the legacy of Islam, the Imperial policies of Great Britain and France, the rise of Arab nationalism.

301. *Europe in the Twentieth Century*: Mrs. Lane.

The first semester extends to the First World War and includes the military phases of the war; the second semester deals with the period from the Russian Revolution to the present. The course includes discussion of diplomatic events, but particular emphasis is placed on the internal developments in the European states and on their social structure.

303. *Recent History of the People of the United States*: Mr. Dudden.

Studies of social change and response since the late nineteenth century, with consideration of scientific and technological innovations and the problems peculiar to the construction of the history of the recent past. Topics will include religion, government, education, economics, and the main currents of thought and artistic expression. With permission, students may elect one semester only.

[304. *English History — the Victorians and Edwardians*: Miss Robbins.]

Round-table discussion each week of different aspects of activity in the period: parliamentary reform; the Chartists; early labor movements and utopian socialists; the formation of the parliamentary labor party; trade unions; urban reform; welfare legislation; legal changes; ecclesiastical currents of opinion, the Oxford movement, the sects and freethinkers, the Catholic revival; Pugin and the Gothic revival; the Great Exhibition and popular taste, the social artists and the departure from realism;
Ireland, the great famine, the Fenians, the rise of Sein Fein; the imperialists; prime ministers and foreign secretaries; the character and role of the monarchs.

[305. Renaissance and Reformation: Mrs. Lane.]

The course is concerned with European History from the fourteenth to the sixteenth century. The first term deals with the Renaissance, the second with the Reformation. Emphasis will be placed not only on the political and social developments, but also on the intellectual history of the period. Given in alternate years.

[306a. The Enlightenment: Miss Robbins.]

The intellectual history of the seventeenth and eighteenth centuries is studied in seminar discussions of selected books illustrating, amongst other things, the scientific revolution, the growth of skepticism, the traveler and the movement of ideas, morality and taste, optimism, the philosophic critics and analysts of government, law and international relations. Open only to upperclassmen.

306b. Great Historians: Miss Robbins.

Each week the work of one or two historians is read and discussed in relation to the historical and scholarly presuppositions of its age. Emphasis is laid on reading and analysis rather than on any attempted survey of historical literature. The course, however, pursues a roughly chronological order starting with the Greeks and ending with Spengler and Toynbee.


A study of the thirteen English colonies, directed toward the general problem of the interpretation of the American Revolution. Particular emphasis will be placed on social and intellectual developments, and on the historiography of the Revolution.

COURSES AT HAVERFORD

36. The Reformation: Mr. Spiegler.

A study of the rise and development of the Protestant Reformation during the sixteenth century, its history and thought, with special attention to the work and thought of Luther and Calvin. Offered in 1966-7 and alternate years.
42. *Topics in American History*: Mr. Lane.
Class discussion and papers based on readings in the sources and secondary works. Topic for 1966-7: the Old South.

43-44. *History of Russia*: Mrs. Gerstein.
A study of Russian history from Kievan times to the early 1920s. The first semester will deal with the period up to the end of the eighteenth century. Political, social and economic aspects of Russian development will be included in the course.

History of ideas in the later Middle Ages and Renaissance, with emphasis on the relations between literature and the philosophical and religious developments of the epoch. Authors read include Abelard, Aquinas, Dante, Petrarch, Erasmus, More, Montaigne, Hooker, Bacon and others. Students electing the course are expected to have some antecedent knowledge of European history and a reading knowledge of Latin or of a relevant modern language. Offered in 1966-7 and alternate years.

56. *Topics in Modern European History*: Mrs. Gerstein.
Class discussion and papers based on reading in the sources and secondary works. Topic for spring 1966-7: Nationalism, theory and practice in the early nineteenth century.

**Final Examination**: The Final Examination for students in History consists of three parts, two of which must deal with general European history. Unless special permission is given by the Department these two fields should form a sequence in medieval or in modern history. The fields offered are as follows:

1. Ancient History to A.D. 378 (Special field)
2. Byzantine History (Special field)
3. History of Europe 378 to 1300
4. History of Europe 1300 to 1648
5. History of Europe 1648 to 1830
6. History of Europe 1830 to 1950
7. History of England (Special field)
8. History of the United States (Special field)
9. History of Russia (Special field)
10. The Near East (Special field)
The examinations in Ancient, English, Russian, Near Eastern, Byzantine, or American history will be based on concentrated study of a special field selected by the Department to meet the needs of the senior class. With the consent of the departments concerned a student may write her third examination in a field of allied work.

**Honors Work:** Students admitted to this work meet the instructor regularly for the discussion of reading in a selected period. An essay based on source material must be presented before May 1. The award of the degree with Honors in History will depend on the character of this honors paper and on the candidate's performance in the final examination.

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**History of Art**

**Professor:** Charles Mitchell, M.A., B.Litt., Chairman

**Associate Professor:** James E. Snyder, M.F.A., Ph.D.

**Assistant Professors:** Charles G. Dempsey, M.F.A., Ph.D.  
Anne Coffin Hanson, Ph.D.

**Artist in Residence:** Fritz Janschka

**Assistants:** Jay Cantor, M.A.  
Tyko Kihlstedt, M.A.

The history of art is studied as an historical discipline. The Department normally offers an introductory course and a series of special courses. Workshop supervision is also offered by the Artist in Residence, for which there is no tuition fee and academic credit is not granted.

**Requirements for the Undergraduate Major:** A minimum of four full-year courses (or the equivalent) is required, consisting of the introductory course (normally) and three others. A 200 course may be modified to count as advanced at the discretion of the Department. It is advisable for anyone contemplating a major in the history of art to consult the Department as early as possible in her college career.

**Allied Subjects:** History, Latin, Greek, Modern Languages, Archaeology; others in consultation with the Department.
101. *Introduction to Art History*: Mrs. Hanson, Mr. Dempsey, Mr. Janschka.

The course is designed as an introduction to the methods and scope of art history in the field of Western art from medieval to modern times. Studio work, two hours weekly, with Mr. Janschka is also required.

201. *Medieval Art*: Mr. Snyder.

Selected topics and works from the fourth to the fourteenth century.


European Renaissance art from the fourteenth to the sixteenth century.

203. *Baroque Art*: Mr. Dempsey.

European art from the late sixteenth to the early eighteenth century.

204. *Modern Art*: Mrs. Hanson.

European art from the late eighteenth to the twentieth century.


A course designed to give advanced students instruction and practice in the reading and interpretation of written documents bearing on the history of art. Participants need an elementary knowledge of Latin and a working knowledge of at least two of the following languages: French, Italian, German.

311a. *Gothic Painting*: Mr. Snyder.

An advanced course on the development of book illustration and painting in France during the thirteenth and fourteenth centuries, requiring a reading knowledge of French and German.

311b. *Jan van Eyck*: Mr. Snyder.

An advanced course requiring a reading knowledge of French and German.

313b. *Poussin*: Mr. Dempsey.

An advanced course requiring a reading knowledge of French.
314a. Modern Architecture: Mrs. Hanson.

An advanced course on the architecture of the nineteenth and twentieth centuries.

Comprehensive Conferences. Regular conferences with Senior Majors on their special subjects: Members of the Department.

Final Examination: The Final Examination for students in the History of Art consists of three parts of three hours each:

1. An examination to test knowledge of works of art.
2. A general examination on the history of art.
3. An examination on a special field or topic.

Honors Work: Honors work is offered to students recommended by the Department.

History of Religion

Visiting Lecturer: Morton S. Enslin, Th.D., Chairman

Associate Professor of Philosophy: Jean A. Potter, Ph.D.

Courses in the History of Religion may be taken as electives or in connection with certain major fields as allied work. No major is offered in the History of Religion.

103. Literary History of the Bible: Mr. Enslin.

The history, literature and interpretation of the Bible, with special emphasis on analysis of text and literary forms.

201a.* History of Ancient Israel: Mr. Enslin.

The origins and development of Hebrew religion against its ancient Near Eastern background until the Christian era.

201b.* Christian Beginnings: Mr. Enslin.

A study of the emergence of the Christian movement, with special attention to the mission of Jesus and the foundation of the early church.
204a. *Philosophy of Religion*: Miss Potter.
   The existence and nature of God and the character of religious language.
   This course is also listed as Philosophy 204a.

204b. *Medieval Philosophy*: Miss Potter.
   The history and development of medieval philosophy from its origins in classical and Patristic thought to the fifteenth century. This course is also listed as Philosophy 204b.

206b. *Apocrypha and Pseudepigrapha*: Mr. Enslin.
   A detailed study of the noncanonical Judeo-Christian writings, with special attention to their form and relation to the canonical books of the Old and New Testament.

**Italian**

Appointment to be announced.

**Lecturers:**

BERNARD TOSCANI, PH.D.
ELIDE PIRONTI BUFFINGTON, M.A.

The aims of the major are to acquire a knowledge of the Italian language and literature and an understanding of Italian culture and its contribution to Western civilization. Majors in Italian are urged to spend the Junior year in Italy or to study in approved summer schools in Italy or in the United States.

**Requirements in the Major Subject:** Italian 1, 101, 201, 202, and one other advanced course. For students who enter College with Italian, proper substitutions will be made.

**Allied Subjects:** Any other language or literature, History, History of Art, Philosophy, Music, Political Science; with departmental approval, any other field allied to the student’s special interests. In all courses students are urged to use tapes available in the Language Laboratory.

1. *Italian Language*: Mr. Toscani.
   A practical knowledge of the language is acquired through hearing, speaking, writing, and reading, going from concrete situations to the expression of abstract ideas and with a gradual introduction to the reading of Italian literature. The course meets five times a week and is conducted entirely in Italian.
101. Intermediate Course in the Italian Language: Mr. Toscani.
Readings from modern Italian authors and topics assigned for composition and discussion, conducted entirely in Italian.

[102c. * Dante in English Translation.]
The New Life and Divine Comedy.

[103c. * Literature of the Italian Renaissance in English Translation.]
From Petrarch to Tasso; pastoral literature; literary criticism and aesthetic theories of the Renaissance, with special reference to their influence on other literatures.

201. Classics in Italian Literature: Mr. Toscani.
Reading and explanation of texts, with a study of literary history; conducted in Italian.

202. Dante.
The Vita Nuova and Divina Commedia, with some attention to the minor works. With departmental approval, open to anyone who can read Italian.

[302c. Advanced Course in the Italian Language.]
Advanced work in composition.

[303. Italian Literature of the Rinascimento.]
[304. Italian Literature of the Romantic Period.]

JUNIOR YEAR ABROAD: Students approved by the Department and the Dean may be recommended for the Junior year in Florence under the auspices of the Smith College Group.

FINAL EXAMINATION: The Final Examination is in three parts:
1. The Italian Language: ability to understand and speak the spoken idiom; ability to write the language.
2. Italian Literature and Literary History.
3. The study of a single genre or topic throughout Italian literature, or an examination on an allied subject.

For the second part, the emphasis may be placed on the Medieval, Renaissance, Romantic or Modern period.

HONORS WORK: After the completion of the second-year course a student may be recommended for Honors in Italian. The student works in a special field adapted to her own interest under the direction of the Department.
Latin

PROFESSOR:  AGNES KIRSOOP MICHELS, PH.D.,
Chairman

ASSOCIATE PROFESSOR:  MYRA L. UHLFELDER, PH.D.

ASSISTANT PROFESSORS:  RUSSELL T. SCOTT, PH.D.
T. LESLIE SHEAR, PH.D.

The major in Latin is planned to give the students familiarity, through careful reading in the original, with the most important works of Latin literature and an understanding of Roman civilization as revealed in literature. A further aim of the major is to give the students some sense of the importance of Roman literature in our tradition and of the contribution of Roman civilization to the modern world. Study of language and style is an essential part of the work, but only one course is entirely devoted to such study. Students are given an opportunity to choose whether they wish to work intensively on literary criticism or on problems dealing with Roman civilization.

REQUIREMENTS IN THE MAJOR SUBJECT: Latin 101 or 102, 201 and either 301 or 302. Honors students are required to take Latin 203. Students who plan to teach Latin are advised to take this course.


1. Elementary Latin: Mrs. Michels, Mr. Shear.

Basic grammar with composition and selected readings from Latin authors in the first semester. In the second semester selected readings from prose authors and from Vergil’s Aeneid, with exercises in composition. Students who have had two years of Latin in school may enter the course in the second semester. Those who complete the course satisfactorily will be eligible to take Latin 101.

101a. Latin Literature: Mr. Scott.

Selections from a play of Plautus, the poems of Catullus, and the Eclogues of Vergil.
101b. Miss Uhlfelder.
Selections from Livy’s *History of Rome* and from Horace’s *Odes*.

102a. *Readings in Latin Literature*: Mr. Shear.
Readings from prose authors, Catullus, and the *Eclogues* of Vergil, with special attention to problems of language, for students who need a review of basic grammar.

102b. Mr. Scott.
Selections from Livy’s *History of Rome* and from Horace’s *Odes*.

201a. *Horace and the Elegiac Poets*: Mr. Scott.
Reading from the *Satires* and *Epistles* of Horace, and from Tibullus, Propertius and Ovid, with special attention to the character of late Augustan literature.

201b. *Latin Literature of the Silver Age*: Mrs. Michels.
Reading from the works of the chief authors with special attention to the development of literary types during the period 202c.* *Medieval Latin Literature*: Miss Uhlfelder.
The reading includes selections from important writers from the late Roman Empire to the thirteenth century. This course may be taken either as a half or as a whole unit. Students who have not taken Latin 101 or 102, but wish to take Latin 202c as an elective or allied course, should consult the instructor.

203. *Latin Style*: Miss Uhlfelder, Mrs. Michels.
Throughout the year half of the course concentrates on the style of Latin prose authors and the principles of ancient rhetoric, with exercises in composition, while the other half deals with the meters of Latin poetry, with practice in reading aloud. The course may be taken for a half unit’s credit by omitting the study of meters.

301a. *Vergil’s Aeneid*: Mrs. Michels.

301b. *Tacitus and Livy*: Mr. Scott.

[302a. *Lucretius*: Miss Uhlfelder.]

[302b. *Cicero and Caesar*: Mr. Scott.]
Final Examination: The Final Examination for students majoring in Latin consists of three three-hour examinations in the following fields:

1. Latin Sight Translation.

2. An examination on one of the following subjects:
   a. Latin Literature of the Republic
   b. Latin Literature of the Empire
   c. Latin Literature of the Ciceronian and Augustan Age
   d. Roman History from the Sources (100 B.C. to 70 A.D.)

3. An examination on one of the following subjects:
   a. An allied subject (Students are advised if possible to take the third examination in Greek)
   b. A second subject from Group 2 (Choice must avoid duplication of material)
   c. The development in Latin literature of an important literary type
   d. An important period or type in Medieval Latin literature
   e. Roman rhetoric
   f. A special author

Honors Work: Honors work either in classical or in medieval Latin is offered to qualified seniors. The subject will be determined by the interests of the student. The work is carried out under the direction of one member of the Department and the results are presented in a paper.
Mathematics

Professors: John C. Oxtoby, M.A., Chairman
            Marguerite Lehr, Ph.D.
Associate Professor: Frederic Cunningham, Jr., Ph.D.
Assistant Professor: Ethan D. Bolker, Ph.D.
Assistants: Annie L. Alexander, M.A.
             Mary L. Wolfe, M.S.

The major is designed to provide a balanced introduction to the subject, emphasizing its nature both as a deductive and as an applied science, at the same time providing the technical foundation for more advanced study. The courses in calculus are basic for all applications of mathematical analysis and for more advanced work in function theory. The courses in algebra and geometry introduce the student to some of the unifying ideas and postulational methods that are characteristic of much of modern mathematics.

Requirements in the Major Subject: Mathematics 101, 201, 202c, 301, 303a, and at least one other advanced half course.

Allied Subjects: Chemistry, Economics, Philosophy, Physics and Psychology.

101. Calculus, with Analytic Geometry: Mr. Oxtoby, Mr. Cunningham.

Differentiation and integration of algebraic and elementary transcendental functions, with the necessary elements of analytic geometry and trigonometry. The interplay between mathematical ideas and applications is exploited.

103a.* Algebras: Miss Lehr.

103b.* Probability Models: Miss Lehr.

An elective course, reflecting the growing contemporary interest in (1) Boolean algebra, matrices, linear programming; and (2) probability distributions, combinatorial problems, and game theory. The biological and social sciences, and current computer methods, supply motivating situations, but the topics are selected to develop fundamental principles and concepts of mathematics, of interest independent of applications.
201. **Second-Year Calculus**: Mr. Bolker.

The definite and indefinite integral, infinite series, partial derivatives, multiple integrals, differential equations, with applications.

202c. **Solid Analytic Geometry and Algebra**: Miss Lehr.

Determinants, vectors, matrices, and selected topics from the Theory of Equations; linear algebra motivated by and applied to space geometry; classification and transformation of planes and quadric surfaces.

301. **Advanced Calculus**: Mr. Cunningham.

The classical theory of real functions, based on Cantor's construction of the real number system; the Riemann integral, functions defined by power series, Fourier series, functions of several variables. Prerequisite: Mathematics 201.

302b. **Projective Geometry and Lattices**: Miss Lehr.

Prerequisite: Mathematics 303a.

303a. **Introduction to Abstract Algebra**: Mr. Bolker.

Permutations, abstract groups, rings, and fields; uniqueness of factorization. Prerequisite: Mathematics 202c.

[304b. **Theory of Probability with Applications**: Miss Lehr.]

Probability in discrete sample spaces, stochastic independence, Laplace Limit Theorem, Poisson distribution, random walk, and recurrent events—with applications to physics and statistics.

306b. **Number Theory**: Mr. Bolker.

Prerequisite: Mathematics 303a.

[310. **Theory of Functions of a Complex Variable**: Mr. Oxtoby.]

Special functions, conformal mapping, the general theory according to Cauchy, singular points, Laurent series, series of partial fractions, infinite products, elliptic functions. Prerequisite: Mathematics 301.

311a. **Differential Equations**: Mr. Oxtoby.

General methods, existence theorems, linear equations and Wronskians, oscillation and separation theorems, partial differential equations and boundary-value problems. Prerequisite: Mathematics 201.
[312. Topology: Mr. Cunningham.]
Prerequisite: Mathematics 301 or 303.

Final Examination: The Final Examination consists of three parts: (a) an examination in analysis, (b) an examination in algebra and geometry, and (c) an examination in some particular branch of advanced analysis or geometry, or in an allied field.

Honors Work: Qualified students are admitted to Honors work on recommendation of the Department.

Music

Professor and Director of Chorus: Robert L. Goodale, A.B., B.Mus., A.A.G.O., Chairman

Professor and Director of Ensemble Groups: Agi Jambor, M.A.

Assistant Professor: Isabelle Cazeaux, Ph.D.

Lecturer: Arthur J. Komar, M.Mus., M.F.A.

Assistant: Caroline M. Cunningham, M.A.

Director of Orchestra: William H. Reese, Ph.D.

The purpose of the Music major is to enable the student to appreciate the significance of music from an historical and sociological as well as from an aesthetic point of view and to develop a technique of intelligent listening, a faculty of critical judgment and the ability to use the materials of music as a means of expression for creative talent.

Students in the courses in History and Appreciation of Music must devote two hours or more a week to listening to recordings.

Requirements in the Major Subject: Music 101, 102, and at least two and one-half units of additional work, the selection of courses depending upon the student's desire to specialize in the history and literature of music or the technique of composition. A student intending to major in Music must have sufficient knowledge of pianoforte or organ playing to enable her to play music of the technical difficulty of a Bach figured chorale. She
is strongly urged to be a member of the Chorus or the Orchestra and/or an Ensemble Group.

**ALLIED SUBJECTS:** History, History of Art, Modern Languages, English, Greek, Latin, Philosophy, History of Religion.

**101. An Introduction to the History and Appreciation of Music:** Miss Cazeaux, Mme. Jambor, Mr. Goodale.

A comprehensive survey, with special emphasis on the technique of intelligent listening.

**102. Music Materials:** Mr. Goodale.

A course in the elements of theory. The study of harmony and counterpoint, simple formal analysis and an introduction to orchestration.

**201b. Romantic Music:** Mr. Komar.

Concentrated study of selected works by representative 19th-century composers: Berlioz, Chopin, Schumann, Brahms, Mahler and Schönberg. Prerequisites: Music 101 and 102, or permission of the instructor.

**202. Advanced Theory and Analysis:** Mr. Komar.

A continuation of Music 102, with emphasis on analysis (harmonic, contrapuntal and formal) of larger forms. Prerequisite: Music 102 or its equivalent.

**203a. Bach:** Mme. Jambor.

Prerequisite: Music 101 or its equivalent.

**203b. The Classical Period:** Mme. Jambor.

Prerequisite: Music 101 or its equivalent.

**205b. Musical Criticism:** Miss Cazeaux.

Prerequisite: Music 101.

**301a. Music of the Twentieth Century:** Mr. Goodale.

The continuing stream of romanticism in modern adaptations. Neo-classicism and Expressionism. Experimental new phases in linear counterpoint, polyrhythms, polytonality and micro-tonality. Prerequisites: Music 101, 102 and 202 or their equivalents. Music 202 may be taken concurrently.
301b. Opera and Music Drama: Miss Cazeaux.

The evolution of opera from its origins to the twentieth century. Prerequisites: Music 101 and 102 or their equivalents.

[302a. Medieval and Early Renaissance Music: Miss Cazeaux.]

The rise of liturgical music in the early Christian Church. The development of polyphony in the tenth century, and the evolution of sacred and secular music up to 1450. Prerequisites: Music 101, 102 or their equivalents. Alternate with Music 301a.

[302b. Late Renaissance and Baroque Music: Miss Cazeaux.]

The great periods of vocal counterpoint during the fifteenth and sixteenth centuries. The creation of new forms in the seventeenth century and the development of dramatic and instrumental music up to the time of Bach. Prerequisites: Music 101 and 102 or their equivalents. Alternate with Music 301b.

[303a. Orchestration: Mr. Goodale.]

Prerequisites: Music 101, 102 and 202 or their equivalents. Music 202 may be taken concurrently with this course.


Prerequisites: Music 101 and 102 or their equivalents.

305. Free Composition: Mr. Goodale.

This course is designed for those students whose chief interest lies in the field of composition. It may be taken only with the permission of the instructor.

Honors Work: Honors work is offered for students recommended by the Department.

Final Examination: The Final Examination consists of three parts with three-hour examinations in each:

1. The History of Music.
3. Special field, which may be taken in an allied subject.

The following organizations, carrying no academic credit, are sponsored by the Department:

The College Chorus, a group of about 90 members. The Chorus participates in concerts with choruses from men's colleges and also takes part in college services. Major works for
women's chorus and mixed chorus are studied and performed. The Double Octet, selected from members of the Chorus, frequently sings at concerts and occasionally goes on trips as an independent unit.

The Orchestra, organized jointly with Haverford College. It plays concerts of its own, and frequently joins the Chorus in the presentation of major works.

The Ensemble Groups, also organized jointly with Haverford College. Students in these groups are afforded the opportunity of studying chamber-music literature at first hand, as well as the experience of playing in public at student recitals.

Lessons in pianoforte, organ and voice may be taken at the student's expense, with no academic credit. Lessons in other instruments may be arranged locally or in Philadelphia. The Department will be glad to assist in these arrangements.

Philosophy

Professors: Milton Charles Nahm, B.Litt., Ph.D., Chairman
José María Ferrater Mora, Lic.F.L.
George L. Kline, Ph.D.
Hugues Leblanc, Ph.D.
Isabel Scribner Stearns, Ph.D.

Associate Professor: Jean A. Potter, Ph.D.

Assistants: Madolene Stone, M.A.
Esen Ortac Traub, M.A.

The major work is planned to acquaint the student with the historical and systematic interrelations of the significant philosophic concepts in Western thought, as well as to provide training in the techniques proper to the subject.

The courses in Greek Philosophy and Modern Philosophy provide the major students with a common background, training and language. Further study offers not only historical information but insight into methodology and systematization, with training in the techniques of logic and theory of value. Meta-
Physics, aesthetics and other advanced studies, besides their intrinsic importance, show the relations of philosophy to art, science, history, mathematics and religion.

The Department aims to provide training sufficiently broad in scope and technical in procedure to equip the student for analytical, critical and productive speculation.

Requirements in the Major Subject: Students majoring in Philosophy are required to take the first-year half-course in Greek Philosophy; the second-year half-courses in Modern Philosophy, Ethics, Logic and Kant; one additional second-year half-course from among the courses listed at the 200 level; and two advanced half-courses from among the courses listed at the 300 level. Under special circumstances and with the permission of the department, students may take second-year courses for advanced credits.


101a. Greek Philosophy: Members of the Department.
A study of the origins and development of philosophic thought in Ancient Greece, with particular emphasis on the major works of Plato and Aristotle.

201a & b. Modern Philosophy: Members of the Department.
A study of the development of modern philosophic thought from Descartes to Kant. Prerequisite: Philosophy 101a.

202a. Kant: Mr. Ferrater Mora.
A close examination of some central themes in the Critique of Pure Reason.

202b. Recent Metaphysics: Miss Stearns.
The metaphysics of Mead, Bergson, Whitehead and related thinkers.

203a. Logic: Mr. Leblanc.
An introduction to modern logic.
203b. Ethics: Mr. Nahm.
   The theory and problems of various types of ethics, hedonist, utilitarian, rational and idealist, with particular emphasis upon the analysis of action and judgment, rightness and goodness, and obligation.

204a. Philosophy of Religion: Miss Potter.
   The existence and nature of God and the character of religious language.

204b. Medieval Philosophy: Miss Potter.
   The history and development of medieval philosophy from its origins in classical and Patristic thought to the fifteenth century.

[205b. Contemporary Philosophy: Analytic.]
[206b. Contemporary Philosophy: Existential.]

207a. Hegel: Mr. Kline.
   A study of Hegel's philosophy, with emphasis upon The Phenomenology of Mind and with some reference to the Hegelian influence on Existentialism.

301a. Aesthetics: Mr. Nahm.
   Types of aesthetic theory and problems concerning art, fine art, productivity, aesthetic judgment and aesthetic criticism.

[302a. The Philosophy of Criticism.]

303a. Plato: Miss Stearns.
   A detailed study of some of Plato's later dialogues.

304a. Texts in Medieval Philosophy: Miss Potter.
   A concentrated study of one or two of the important writings in medieval philosophy.

[304b. Thomas Aquinas.]
[305a. Philosophy of the Enlightenment.]
[305b. Russian Philosophy.]

306b. Descartes and Spinoza: Miss Potter.
   A study of the metaphysical systems of Descartes and Spinoza, and their background in scholastic and Renaissance thought.
Philosophy of Language and Symbolism.]

308b. The Philosophies of Schopenhauer, Marx, and Nietzsche: Mr. Kline.
A close study of the principal philosophical writings of three nineteenth-century thinkers, viewed in the perspective of their individual responses to the Hegelian system.

309b. Theory of Knowledge: Mr. Leblanc.
An analysis of the scope, structure and methods of science in the light of recent philosophy.

[310b. Philosophy of History.]

311b. Aristotle: Mr. Ferrater Mora.
A study of Aristotle’s system, with emphasis upon such fundamental problems as language, substance, change, being and the Prime Mover.

Final Examination: The Final Examination consists of three written examinations. Two of the examinations will be on a subject such as “causality,” “the mind-body relation,” “freedom,” “language and reality,” “time,” treated in its historical development from the Greeks to the present. The third examination will be on a field offered in any of the advanced courses taken by the student during her senior year, or in an allied subject.

Honors Work: Honors work consists of independent reading and conferences with the instructor, directed to the preparation of a paper on a subject dealing with the technical problems of philosophy or emphasizing the connection of philosophy with general literature, history, politics and science, or with some special field in which the student is working.
Physics

Professors: WALTER C. MICHELS, Ph.D. Chairman
             ROSALIE C. HOYT, Ph.D.
             JOHN R. PRUETT, Ph.D.

Assistant Professor: JOHN R. OLSON, Ph.D.

Assistants: RANDALL E. BACH, M.S.
             EDWARD F. GARDNER, M.S.
             ROBERT PECKMAN, M.S.
             DAVID C. SCOTT, M.E.

The courses offered to students majoring in Physics emphasize the techniques that have led to our present state of understanding of the material universe rather than facts about the universe; they are designed to relate the individual parts of physics to the whole rather than to treat them as separate disciplines. In her progress from a general survey of the subject in her first-year course to the preparation for the final examination in the senior year, the student applies her growing grasp of experimental and logical techniques to increasingly independent studies of physical phenomena.

Requirements in the Major Subject: Physics 101 or 102, 201a, 202b, 302b and 306a, and at least one and one-half units of advanced work, to be chosen from 301a, 303b, 304, 305c; Chemistry 101; Mathematics 101 and 201. A third unit of Mathematics is strongly recommended. Students are encouraged to meet some of the major and allied requirements by advanced standing or placement examinations.

Allied Subjects: Biology, Chemistry, Geology, Mathematics, Philosophy, Psychology.

101. Introduction to Modern Physics: Mr. Pruett, Mr. Olson.
A study of the principal phenomena of classical and modern physics in the light of the developments of the past sixty years. Three lectures and three hours of laboratory a week.
102. Introductory Chemistry and Physics: Mr. Michels, Mr. Varimbi, Miss Hoyt.

See Interdepartmental Course 102, page 127.

201a. Electricity and Magnetism: Miss Hoyt.

Behavior of electric currents, elementary direct current and alternating current circuit theory, magnetic effects of currents, electrostatic phenomena, Maxwell's equations, applications to atomic phenomena. Three lectures and four hours of laboratory per week. Prerequisites: Physics 101 or 102, Mathematics 201 (may be taken concurrently).

202b. Optics: Mr. Pruett.

Geometrical optics, interference and diffraction phenomena, polarization, dispersion, and scattering studied from the point of view of electromagnetic radiation; spectra and the Bohr atom. Three lectures and four hours of laboratory per week. Prerequisites: Physics 201a, Mathematics 201 (may be taken concurrently).

301a. Classical Mechanics: Mr. Olson.

Newtonian mechanics of particles and of rigid bodies, consequences of special relativity theory, generalized mechanics, vibrations and waves, applications to atomic and nuclear phenomena. Three lectures and four hours laboratory per week. Prerequisites: Physics 201a, 202b, Mathematics 201.

302b. Atomic and Nuclear Structure: Mr. Michels, Mr. Pruett.

Development of quantum theory and wave mechanics with applications to atomic structure and spectroscopy. Nuclear structure models and reactions. Fundamental particles. Two hours of discussion a week. Prerequisites: Physics 303b (may be taken concurrently).

303b. Thermal Properties of Matter: Mr. Michels.

The application of mechanics and probability concepts to systems of particles; the laws of classical thermodynamics and their connection with statistical models; equilibrium and transport problems; classical and quantum statistics. Three lectures and four hours laboratory per week. Prerequisites: Physics 301a, Mathematics 201.

304. Introduction to Theoretical Physics: Mr. Michels.

Application of generalized mechanics to coupled systems and continuous media; introduction to wave mechanics; electric,
magnetic, and electromagnetic fields. Emphasis is placed on boundary value problems. Mathematical methods are developed as needed. Four lectures a week. Prerequisites: Physics 201a, 201b, 301a and 302b (may be taken concurrently), Mathematics 201. Mathematics 301 or Chemistry 203 may be substituted for Physics 301a and 303b.

305c. Physical Measurements.
Precision measurements of electromagnetic, optical and atomic phenomena. Four hours of laboratory a week. Prerequisites: Physics 301a and 303b (may be taken concurrently).

306a. Unified Classical Physics: Miss Hoyt, Mr. Olson.
A general coverage of classical physics (including relativity and classical quantum theory) from a more mature point of view than is possible in earlier courses. The subject matter covered in Physics 201a, 202b, 301a, and 303b is integrated and extended in preparation for the Final Examination in the Major Subject. Two hours of discussion a week. Prerequisites: Physics 301a (may be taken concurrently).

[351.* Application of Physics to Biology and Chemistry: Miss Hoyt.]

The emphasis of this course is divided between the experimental techniques and the theoretical methods of physics. Examples of applications of these methods and techniques will be chosen to meet the major interests of the students. Three lectures and four hours of laboratory a week. Prerequisites: Physics 101 or 102, Mathematics 101 and second-year work in Chemistry or Biology.

Final Examination: The Final Examination for students majoring in Physics is in three parts:
1. Foundations of Physical Theory (required of all students).
2. Descriptive Physics. A student may substitute an approved examination in an allied field for this examination.
3. An examination in the special field of Atomic and Nuclear Physics (required of all students).

Honors Work: Honors work may be taken by seniors recommended by the Department. It consists of reading and experimental work on some problem of physics.
Political Science

The Caroline McCormick Slade Department of Political Science

Professors: Peter Bachrach, Ph.D., Chairman
Gertrude C. K. Leighton, A.B., LL.B. 1

Associate Professor: Melville T. Kennedy, Jr., Ph.D.

Assistant Professor: Charles E. Frye, Ph.D. 2

Visiting Lecturers: William G. Grigsby, Ph.D.
Erik Hoffmann, Ph.D.
H. Hubert Wilson, Ph.D.

Instructors: Ann M. Liacouras, M.A.
Enid Bok Schoettle, M.A.

Assistant: Ok Yul Kim, M.A.

Dean of the College: Dorothy Nepper Marshall, Ph.D.

The major in Political Science is concerned with study of theories of government and with analysis of the structures and processes of modern political communities.

Requirements in the Major Subject: Students majoring in Political Science must take a minimum of four units in the major and two in allied work. At least one unit of major work must be taken in advanced courses. As a prerequisite to all other courses offered, majors must complete one unit of work chosen from among the following: 201a, 202a, 203a, 204b, 205a, 206b, 209b, 212b. Students who are not majors in the Department may meet this prerequisite in the same way, or alternatively by completing one half unit of allied work and one half unit in Political Science chosen from the list of courses above. For required fields in the major, see page 116 under Final Examination.

Non-majors wishing to take a field in preparation for the final examination in Political Science must consult the chairman in advance of taking courses in the special field. With the permission of the Department, courses at Haverford College, other than those listed below, may be taken for major or allied credit.

Allied Subjects: Anthropology, Economics, Education, History, Philosophy, Psychology and Sociology. With the permission of the Department, certain courses offered by the modern language departments may be accepted as allied subjects.

201a. *American National Politics*: Mr. Bachrach, Mrs. Liacouras.

An analysis of the political behavior of individuals and groups within the context of the legislative and administrative process will be emphasized. Theories relating to the governmental process in the United States will be incorporated within this analysis and recent studies in political sociology will be relied upon as background material.

[202a. *Western Political Theory: Ancient and Medieval*: Mr. Frye.]

A study of the development of theory: Greek, Roman and Christian, and medieval, concluding with a discussion of the problems of theory in the sixteenth century.

203a. *Government and Politics in East Asia*: Mr. Kennedy.

An approach to modern Asian politics (prior to 1950) through a study of the major philosophic and institutional features of dynastic China and areas under Chinese cultural influence. India and Japan are considered for comparative purposes.

204b. *Communism and Nationalism in Asia*: Mr. Kennedy.

A consideration of the central concepts in communism and nationalism and of their role in the sweeping changes Asia has experienced since World War II.

205b. *Government and Politics in Western Europe*: Mr. Hoffmann.

A comparative analysis of the contemporary political systems of Great Britain, France and Germany, with special reference to factors making for stable and effective democracy.


A comparative analysis of the contemporary political systems of the Soviet Union and Eastern European nations.
[206b. *Values, Science and Politics*: Miss Leighton.]

Designed as a study of the discipline of political science, the course examines the philosophical, historical and scientific approaches to the political process. Illustrative problems are selected from the legal, international and comparative fields.


A comparative analysis of political systems of Latin America.


A study of the fundamental problems of modern Western political thought, based on an analysis of the writings of the leading theorists.


See Interdepartmental Course 210b, page 127.


Analysis of certain fundamental economic and political problems in Latin America. Open to students who have had at least one year of Political Science (for prerequisites, see page 111) and Economics. Preference given to those with a reading knowledge of Spanish or Portuguese.

[212b. *Government and Politics in Western Europe: Germany, Italy and the Soviet Union*: Mr. Frye.]

A comparative analysis of the political systems of Germany, Italy and the Soviet Union since 1918, with special reference to the causes and nature of totalitarianism and its impact upon a society.

[215a. *Public Administration and Bureaucracy*: Mr. Diamant, Haverford College (Political Science 39).]

A comparative study of administration and bureaucracy as central elements of modern society. Administrative structure and process and bureaucratic personnel in major contemporary political systems, e.g., U.S., U.S.S.R., Great Britain, France and India.
216b. African Civilization: Mr. Glickman, Haverford College (Social Science 38).

A study of political ideologies, systems and processes in new states. The impact of the West on traditional societies, the growth and effects of nationalism and the problems of stability and popular government are emphasized.

218b. Metropolitan Government: Mr. Grigsby.

Analysis of the forces affecting the structure of metropolitan regions. The functions and politics of government at the local and metropolitan levels. Intergovernmental relations. Current administrative problems, economic development, urban renewal and poverty. Field work in greater Philadelphia.


A detailed analysis of selected Supreme Court decisions on four or five leading topics.

221b. International Law: Miss Leighton.

An examination of the doctrines and practices of international law. Traditional material is considered in the context of the contemporary political process, with some emphasis on methodological problems.


223b. American Political Process: President and Congress: Mr. Waldman, Haverford College (Political Science 22).

224a. Comparative Politics: Western: Mr. Glickman, Haverford College (Political Science 25).

225b. Comparative Politics: Non-Western: Mr. Glickman, Haverford College (Political Science 24).


An analysis of the world political system with particular reference to the necessary conditions for a minimum world order.

301b. Law and Society: Miss Leighton.

An introduction to the nature of legal obligation and its relation to selected social institutions. Typical legal problems pertaining to the family, property and government are discussed.
Selected topics in the study of the relation between the legal process and personality development and structure. Attention is given, in the light of this perspective, to the policy implications of various legal doctrines pertaining to such subjects as divorce, child-rearing, criminal responsibility. Open to students who have taken any one of the following: Political Science 207a, 301a, 311a, or with permission of the instructor.

303a. Problems in International Politics: Mr. Kennedy.

A study of developments in international politics since World War II. Emphasis will be given to an analysis of the origins and development of the Cold War, to the role of the new states in world politics, and to the implications of the development and spread of nuclear weapons technology.

304b. West European Integration: Mr. Frye.

An analysis of postwar moves toward integration in Western Europe, with special emphasis upon the factors behind integration and upon the impact of integration upon member societies.

306b. The Problem of Power in Contemporary Society: Mr. Bachrach, Mr. Baratz (Department of Economics).

See Interdepartmental Course 306b, page 128.

307a. Modern Germany: Mr. Frye.

308a. American Political Theory.

The development of American political ideas from the Revolution to the present, with some attention to the English and Colonial origins.

309b. Selected Topics in Modern Political Thought: Mr. Frye.

A study of certain major political problems besetting modern societies in the light of the writings of recent democratic and non-democratic thinkers.

312b. China and Japan: 1840 to the Present: Mr. Kennedy.

The course focuses on internal responses to the Western impact as revealed in changing attitudes, revised values and new institutions; and on external policies and relations. Special attention to evidences of continuity and change and to comparison of political developments in the two countries.
[313b. Problems in Constitutional Law: Mr. Bachrach.]

The specific topics of the course will be drawn from among the following: the historical, philosophical and constitutional development of freedom of speech in the United States; morals and law in the United States and England; the right to privacy; searches and seizures in theory and practice; the interstate commerce clause and the power of the states to regulate therein.

[314a. Methodology in Political Science: Mr. Frye.]

An analysis of the philosophical problems behind different approaches to the study of politics and an examination of the research tools available to political scientists.

[315a. American Bureaucracy: Mr. Bachrach.]

After a somewhat detailed analysis of Weber's theory of bureaucracy, the course will be focused on the relation of democracy and bureaucracy in American society.


An analysis of the impact of science and technology on national politics and American life.

321a. Topics in Contemporary Theory: Mr. Wilson.

Consideration of contemporary democratic and socialist theory in relation to the major problems in American society.

Final Examination: The Final Examination consists of three examinations, the first of which is a general examination in Political Science and must be taken by all seniors majoring in the Department. The second and third examinations each cover a single specialized field, to be selected from the following (the course numbers indicate the courses falling within each field): Political Philosophy and Theory (202a, 206b, 209b, 306b, 308a, 309b, 314a); Politics and Law in American Society (201a, 207a, 217b, 218a, 301a, 302b, 315b, 315a); Comparative Politics (203a, 205a, 210b, 211a, 212b, 215a, 216b, 304b, 307a, 312b); International Politics and Law (204b, 303a, 311a, 316b). All students must complete at least one and one-half units in the special fields which they select. Students may, on consultation with the Department, elect to take one field in an allied subject. A conference for all seniors is held weekly.

Honors Work: Seniors admitted to Honors work prepare an independent research report (one unit of credit) under the supervision of a member of the Department. Weekly conferences are held. Field work is encouraged.
Psychology

Professors: Morton Edward Bitterman, Ph.D.,¹
Chairman
Rachel Dunaway Cox, Ph.D.

Associate Professors: Robert Simon Davidon, Ph.D.²
Richard Charles Gonzalez, Ph.D.

Assistant Professors: Anne Constantinople, Ph.D.
Earl Thomas, Ph.D.

Lecturers: Erika Rossman Behrend, M.A.
Irena Lukaszewska-Bulat, Ph.D.

Assistants: David Bresler, A.B.
Alcine Potts, A.B.
W. Michael Schoel, B.Con.

The Department offers to the major student a representative account of methods and findings in the principal areas of psychology. Problems of application are considered, and the relation of psychology to other natural and social sciences is emphasized.

Requirements in the Major Subject: Psychology 101a and b; two of the following four courses: Psychology 203b, 205a, 301b, 303a; two of the following four courses: Psychology 102b, 202b, 302a, 304b; and one additional unit in Psychology. Psychology 204a is strongly recommended to students preparing for graduate work.

Allied Subjects: Anthropology, Biology, Economics, Education, Mathematics, Philosophy, Physics, Political Science, Sociology.

101a. General Experimental Psychology: Mr. Gonzalez.

A survey of basic facts and principles: sensation, perception, motivation, emotion, learning, and thinking. Three hours of lecture and two hours of laboratory each week. This course is prerequisite to all further courses in Psychology. Where a unit of Psychology is used to meet a distribution requirement, either Psychology 101b or Psychology 102b may be combined with Psychology 101a, but Psychology 101b is required of all majors.

101b. *Comparative Psychology:* Mr. Thomas.

The psychology of infrahuman animals: instinctive activities, sensory capacities, motivation, and learning. Three hours of lecture and two hours of laboratory each week.

102b. *Social Psychology:* Miss Constantinople.

The psychological study of man in society. This course together with Psychology 101a may be used to satisfy a distribution requirement.

[202b. *Psychological Measurement:* Mr. Davidon.]

Trait assessment and prediction; demonstration and evaluation of principal tests; scaling and test development; the structure of human abilities. Three hours of lecture and two hours of laboratory each week. Prerequisite: 204a or permission of instructor.

203b. *Human Learning and Thinking:* Mr. Gonzalez.

Verbal learning and retention; meaning and creative thought. Two hours of lecture and four hours of laboratory each week.


Measurement, descriptive statistics, probability, association, testing of hypotheses, and the design of experiments. Three hours of lecture and two hours of laboratory each week.

205a. *Sensation and Perception:* Mr. Thomas.

Peripheral and central mechanisms for the reception and analysis of stimuli. Three hours of lecture and two hours of laboratory each week.

301b. *Physiological Psychology:* Mr. Thomas.

The physiological and anatomical bases of behavior. Three hours of lecture and three hours of laboratory each week. Prerequisite: Psychology 101b.

302a. *Psychology of the Normal Personality:* Miss Constantinople.

Survey of the major theories. Developmental, clinical and experimental evidence relating to the 'normal' personality.
303a. Animal Learning: Mr. Bitterman.
Comparative studies of conditioning and selective learning; theories of learning; the evolution of intelligence. Three hours of lecture and three hours of laboratory each week. Prerequisite: Psychology 101b.

304b. Psychology of the Abnormal Personality: Mrs. Cox.
Concepts of normality, types of abnormality, methods of investigation and principles of treatment. Three hours of lecture each week. Visits to mental health centers and training school facilities for special lectures and observation.

306a & b. Advanced Experimental Psychology: Members of the Department.
Specialized training in a selected area of investigation. May be taken in either semester or throughout the year. Prerequisite: Permission of the Department.

Senior Conferences: Members of the Department.
Weekly conferences, and, for selected students, seminars on special topics in preparation for the Final Examination.

Final Examination: The Final Examination is in three parts:
1. General Psychology
2 & 3. Specialized examinations in two of the following fields:
   Animal Learning
   Human Learning and Thinking
   Sensation and Perception
   Personality, Normal and Abnormal
   Physiological Psychology
   Psychological Testing
   Social Psychology
With the approval of the Department an examination in an allied field may be substituted for one of the specialized examinations.

Honors Work: One unit of Honors work may be taken by students nominated by the Department. This unit may be substituted for one of the specialized examinations.
The Russian major is designed to offer the students the opportunity to learn both to read and speak Russian and to achieve an understanding of the literature, thought and culture of both pre-revolutionary and contemporary Russia. Students in all courses are encouraged to make use of the tapes available in the Language Laboratory. In Russian 1, 101, 202, the use of the Laboratory forms an integral part of the course.

Requirements in the Major Subject: Russian 1, 101, 200, 201 and one advanced course. Also Russian 203 or History 43-44 (History of Russia). If a student offers Russian for entrance, Russian 203 or History 43-44 may be substituted.

Allied Subjects: History 204b, 43-44 (strongly recommended), 301; Political Science 201a, 210; any language or literature, History of Art, Music, Philosophy.

1. Elementary Russian: Miss de Graaff, Miss Davis.
   The basic grammar is learnt and enough vocabulary to enable the student to speak and understand simple Russian and to read simple texts.

101. Intermediate Russian: Miss de Graaff, Miss Nagurski.
   Grammar review and composition. Introduction to the Russian literary language. Plays, novels, and some contemporary political material are read.


201. Readings in Russian Literature: Miss Nagurski.
Representative writers of the nineteenth and twentieth centuries. Conducted mostly in Russian.

[202.∗ General Readings in Russian.]
Primarily intended for students who want a good reading knowledge of the language, but are not majoring in Russian. The reading texts cover a wide variety of subject matter, such as history, economics, politics, science, as well as literature. Some lectures in Russian about the cultural background of Russia are included, with oral reports and discussion of specific topics in Russian. Prerequisite: two years of Russian language.

[203.∗ Russian Literature in Translation: Miss Nagurski.]
The leading Russian writers of the nineteenth century in translation. Students registering for the course should read in the preceding summer the following novels: Dostoevsky's Crime and Punishment, Tolstoi's War and Peace and two of Turgenev's novels.

An advanced course, given in Russian, is selected each year from the following:

[301. Russian Poetry of the Nineteenth Century: Miss de Graaff.]
302. Pushkin and His Time: Miss de Graaff.

[303. Russian Literature of the Twentieth Century: Miss de Graaff.]

[304. Social Trends in Nineteenth-Century Russian Literature: Miss de Graaff.]

Final Examination: The Final Examination for students majoring in Russian consists of three parts:
1. The Russian language: ability to speak and understand the spoken idiom; ability to translate from the Russian.
2. A period of Russian literature.
3. A single topic of Russian literature or an allied subject. The Department is especially interested in allied subjects in the social sciences.

Honors Work: Honors work is offered to students recommended by the Department.
Sociology

Professor: Eugene V. Schneider, Ph.D.
Chairman

Lecturer: Judith R. Porter, M.A.

Professor of Social Work and Social Research: Bernard Ross, Ph.D.

At Haverford
Professor of Sociology: Paul Hare, Ph.D.
Assistant Professor of Sociology: Andrew Effrat, M.A.

The aim of the major in Sociology is to provide the student with a general understanding of the structure and functioning of modern society, its major institutions, groups, values, and of the interrelations of these with personality. Attention is also paid to the major stresses and strains of modern society, and the resultant social problems. Free elective work is offered to those who may be interested in applying their knowledge to the field of social work.

The work of this program is closely integrated with the work in Sociology offered at Haverford College. The student will note that one course is required at Haverford, and that other courses are open for the major work.

Requirements for the Major Subject: 102a & b, 21a (Haverford), 302a, and one further unit and a half of work to be chosen from courses offered at Bryn Mawr or courses above the introductory level at Haverford. In addition, the student is required to take one of the following courses: Anthropology 101, Economics 101, or Psychology 101, or a unit of Political Science.

Allied Subjects: Anthropology, Economics, Psychology, Political Science, Philosophy, History and Mathematics.

102a. Introduction to Sociology: Members of the Department.

An analysis of the basic sociological perspectives, methods and concepts used in studying society. Attention will be paid to various forms of social organization; groups, crowds, publics, institutions, organizations. Examples will be drawn from several non-industrial societies.
102b. *American Social Structure:* Members of the Department.

Analysis of the structure and dynamics of complex, industrial societies. Examples will be drawn from several societies, but major emphasis is on the United States.

[202a.* History and Philosophy of Social Welfare: Mr. Ross.]

American social welfare programs, their heritage and future trends; social work as an institution and profession.

205b. *Social Stratification:* Mrs. Porter.

Examination of theoretical and methodological problems in the field of stratification, with special reference to the relationship of class structure to the culture and to personality systems.


An examination of theories of prejudice and attitude change. The structure of the minority community and its relationship to the majority group will be discussed, with major emphasis placed on Negro-white relations in the United States.


Analysis of the interrelationship between religion and society, drawing upon the works of major social theorists. Emphasis will be placed on the connection between religious systems and secular culture and social structure, including the role of religion in social change, secular values, and personality systems.

302a. *Social Theory:* Mr. Schneider.

Analysis of the theoretical work of several classical and modern thinkers.

**COURSES AT HAVERFORD**

21a. *Social Research:* Mr. Hare.

An analysis of classic and significant studies in the fields of social sciences with a view toward understanding the methods, tools, techniques and hypotheses of social research. Studies will demonstrate the use of statistical, case, historical and other research procedures. Individual projects.
34b. *Organizational Analysis*: Mr. Effrat.

An analysis of the operation and evolution of large-scale organizations, especially mental hospitals, schools, political parties, and business firms. The course will examine various types of authority, communications systems, goals, sanctions, competition, innovation. A field study will be undertaken.

35a. *Small Groups*: Mr. Hare.

An analysis of small groups in laboratory and field situations. Prerequisite: 21a or may be taken concurrently with 21a.


A comparison of the principal sociological and psychological theories concerning the sources, patterns, and consequences of social change focusing on controversies among the approaches represented by Marx, Durkheim, Weber, Spencer, and Smelser, and including case material.


An extension of dramaturgical theory to the analysis of interpersonal behavior and mass communication, including such topics as styles of presentation of self in everyday life, role playing and rehearsal, role development, sources and consequences of societal heroes, villains, and fools, the structure of encounters, and the significance of comedy and tragedy.

**Final Examination**: The Final Examination for students majoring in Sociology is in two parts:

1. General Sociology.

2. A special field in Sociology, such as Social Theory, Race Relations, Industrial Sociology, Social Disorganization. An allied field may be substituted for one of these.

**Honors Work**: Honors work is offered to selected students and will consist of independent reading and research, conferences and the preparation of a written report.
Spanish

The major in Spanish includes work in both literature and language. It includes a two-year survey of Spanish literature, followed by more specialized advanced courses dealing with the literature of special periods, or with various literary forms. One course is devoted to training in written and spoken Spanish. Students are encouraged to supplement their course work by spending the Junior year in Spain or a summer in a Spanish-speaking country, or by living in the Spanish House. It is strongly advised that all students make use of the tapes available in the Language Laboratory. In Spanish 1 and 3 the use of the Laboratory forms an integral part of the course.

Requirements in the Major Subject: Spanish 101, 102 and at least two advanced courses. Students who spend the Junior year in Spain may substitute an advanced literature course for Spanish 202.

Allied Subjects: Any other language or literature, Economics, History, History of Art, Music, Philosophy, Political Science, and Sociology and Anthropology.

1. Elementary Spanish: Mrs. Paucker, Miss Turnbull.
   Grammar, composition, readings on the Spanish and Spanish-American background.

3. Intermediate Spanish: Mr. González Muela.
   Intensive grammar reviews and exercises in composition and conversation.

101. *Masterpieces of Spanish Literature (from 1700 to 1936):* Mrs. Paucker, Mrs. King.

A panoramic view of the development of Spanish literature during the eighteenth, nineteenth and twentieth centuries, emphasizing representative works of each period or literary school: Neoclassicism, Romanticism, Realism, etc.

[102. *Masterpieces of Spanish Literature (from the Poema del Cid to 1700):* Mrs. King, Mrs. Paucker.]

A survey of Medieval, Renaissance and Baroque literature, emphasizing the development of the various genres. Special attention is given to the Spanish Golden Age.

202. *Spanish Readings and Composition:* Mr. González Muela, Miss Turnbull.

Designed to aid the student in interpretation of texts, appreciation of stylistic differences, translation and original composition in Spanish. Assignments are adapted to the needs and level of achievement of the individual student.


Poetry and prose from the Modernista movement to the present.

[203b. *Spanish American Literature — The political and social revolution:* Mrs. Paucker.]

The development of the national ideal in the prose writers from Sarmiento to the present.

[302a. *Medieval Spanish Literature:* Miss Turnbull.]


The development of the Spanish narrative from the Generation of 1898 to the present.

[303b. *Modern Spanish Poetry:* Mr. González Muela.]

Spanish poetry from Modernismo to the present.


The development of Cervantes' art in the drama, the short story, and the novel, with special attention to *Don Quixote.*
304b. *Drama of the Golden Age:* Mrs. King.

Representative works of Cervantes, Lope de Vega, Tirso de Molina, Calderón and other outstanding dramatists.

[305. *Prose Fiction of the Renaissance.*]

From *La Celestina* to *Don Quixote*.

**Final Examination:** The Final Examination is in three parts:

1. An oral examination in Spanish consisting of the explanation and interpretation of a Spanish text.
2. A three-hour written examination in Spanish on a period of Spanish literature.
3. A three-hour written examination on the development of a literary genre through Spanish literature.

An examination in an allied subject may be substituted for one of the two written examinations.

**Honors Work:** Honors work is offered to students recommended by the Department. This work consists of independent reading, conferences and a long paper.

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**Interdepartmental Courses**

The following courses are given by several departments in cooperation. The object is to cut across well-defined areas of knowledge and to show the relationships existing among them.

102. *Introductory Chemistry and Physics:* Mr. Michels, Mr. Varimbi, Miss Hoyt.

This course is intended to give an introduction in depth to our present knowledge of the physical world, and of its quantized, atomic and molecular structure, as well as of the processes by which this knowledge has been obtained. It will cover essentially all of the subject matter included in Chemistry 101 and Physics 101, and will serve as preparation for Chemistry 201a, Chemistry 202, and Physics 201a. One and one-half units. Five lectures and six hours of laboratory per week.


An analysis of the structure and functioning of major Soviet economic, political and social institutions. Current arrangements
are studied as products of historical development. Present performance and prospects are evaluated. Prerequisites: Economics 101 or a unit of second-year work in Political Science; or History 101. (This course is also listed as Political Science 210b.)


A study of political power, with special reference to current controversies in the United States as to the nature and sources of power and with analysis of the implications for the democratic process. (This course is also listed as Political Science 306b.)

308. *Introduction to Linguistics*: Miss Dorian.

Introduction to the study of language: the interaction of language and culture; methods of tracing the history of languages and their interrelationships; techniques in structural analysis in American descriptive linguistics.


Practical experience in the analysis of a non-Indo-European language. Class members will learn field-method techniques of obtaining from a native speaker material for a phonological and grammatical description of the language. Prerequisite: Inter-dep. 308.


A study of the works of English, French, German and Spanish poets of the late nineteenth century on a comparative basis. Lectures and oral reports. Prerequisite: a good command of two modern European foreign languages, completion of advanced literature courses in a modern language department, and permission of the co-ordinator of the course.
To adjust to the revised curriculum introduced for the Class of 1969 and later classes, the Department of Physical Education has developed a program to:

1. Recognize the student with a high degree of neuromuscular coordination and physical stamina, and encourage her to maintain this status.

2. Provide incentive for students of lower levels of neuromuscular coordination and physical stamina to improve to a higher more recognized standard.

Through a combination of tests, some already used for several years, a student's physical education profile score (P.E.P.) can be determined. On the basis of this profile score the student will be advised to what extent she has satisfied the freshman (or sophomore) requirement. She may have no required activity her freshman year or she may have to fulfill the usual first-year requirement. In either case the student will be retested at the end of semester I of her freshman year and again at the beginning of her sophomore year.

Students of high-level profile scores are free to elect any activity offered by the Department, including those specialized units in Rhythms or Dance Orientation, Sports Orientation and Relaxation. Should a student in this level profile score not participate in activity, there are factors which will be sacrificed: regular activity, opportunity for social exchange, recreation, relaxation and the possible lowering of the profile score.

Students not in the high-level group will be advised of areas in which they need assistance, will be free to elect sports activities, and the choice of two of a three-unit course in movement education will be a required part of the program.

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Areas contributing to a physical education profile to be determined by testing, using batteries of standardized tests and procedures, adapted to college women:

1. Swim test (for survival)
2. Aptitude and Achievement Battery (performance skill)
   a. Standing broad jump
   b. Sand bag throw
   c. Obstacle course
3. Fitness Battery (strength and endurance)
   a. Standing broad jump
   b. Sit-ups
   c. Push-ups
   d. Step-ups
4. Body weight control

All students must complete the freshman and sophomore requirements satisfactorily, and must pass the swimming test administered at the beginning of the year to every new student unless excused by the College Physician. Students unable to pass this test are expected to register for beginning swimming. All classes are open to election by upperclassmen. Transfer students will have their physical education requirement reviewed by the Director of the Department.

Seasonal offerings are:

**FALL:** archery, fencing, golf, hockey, modern dance, movement education, riding,* swimming, tennis, volleyball, and American Red Cross Senior Life Saving Course. **WINTER:** badminton, basketball, diving, exercise, fencing, folk dance, modern dance, movement education, skating,* swimming, volleyball, and American Red Cross Water Safety Instructor Training Course. **SPRING:** archery, golf, lacrosse, riding,* soccer, swimming, tennis and volleyball.

**Swimming Test:** Jump into deep end of pool (feet first entry), tread water one minute without use of hands, back float motionless two minutes, demonstrate two strokes while swimming lengths of pool for 10 minutes without stopping, resting, or touching bottom or sides of pool.

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* Open only to Sophomores with permission of the Department.
Financial Aid

THE scholarships listed on the following pages have been made available to able and deserving students through the generosity of alumnae and friends of the College. Many of them represent the income on endowed funds which in some cases is supplemented by an additional grant, usually taken from expendable gifts from alumnae and parents. A student may apply for aid in a specific amount, but not from a particular fund.

The awards made from some scholarship endowments are reported in specific amounts. In the case of other awards for which the specific amount is not reported, the stipend is set according to the needs of the student.

Three outstanding scholarship programs have recently been established by the National Merit Scholarship Corporation, the General Motors Corporation and the Procter and Gamble Fund. Awards for the General Motors Scholarship and the Procter and Gamble Scholarship are made by Bryn Mawr College. The Ford Company has a scholarship program for the children of its employees as do other large corporations. In addition to the generous awards made by these companies there are many others made by foundations and by industrial and professional groups. Some of these are regional in designation. Students are urged to consult their schools and community agencies for information in regard to such opportunities.

Financial aid is held each year by thirty-five per cent of the undergraduate students. The value of the scholarships ranges widely, but the average grant is approximately $1350. Requests for financial aid are reviewed by the Scholarship Committee and judged on the basis of the student's academic promise and achievement on the one hand, and, on the other, her financial situation and that of her family. Bryn Mawr College participates in the College Scholarship Service of the College Entrance Examination Board. Participants in the Service subscribe to the principle that the amount of aid granted a student should be based upon financial need. The Service assists colleges and other agencies in determining the student's need for financial assistance. All applicants must submit in support of application for financial aid the form entitled Parents' Confidential Statement which is prepared by the Service. When the total amount of aid needed has been determined, awards are made in the form of loans and scholarships. All students who are granted a scholarship in the
award to the College or the alumnae clubs will be required to borrow the first $200 of their total financial aid from one of the loan funds (see page 152). Students receiving assistance generally plan to earn money by part-time work during the college year and by summer positions. Employment opportunities are described on page 151.

Scholarships are available both to entering students and to those who have completed one or more years of study in the College. Students entering on transfer from other colleges in the United States are eligible for scholarships only after the completion of one year of study at Bryn Mawr.

APPLICATIONS FOR FINANCIAL AID AVAILABLE AT ENTRANCE

Application forms for Financial Aid for the freshman year may be obtained from the Director of Admissions, Taylor Hall, Bryn Mawr College, Bryn Mawr, Pennsylvania. Each candidate for aid must also file with the College Scholarship Service, Box 176, Princeton, New Jersey, a form entitled Parents' Confidential Statement in Support of Application for Financial Aid. These two forms must be filed with the College and with the College Scholarship Service no later than January 1 of the student's final year in high school in the case of regular applicants, and no later than October 1 in the case of applicants under the Early Decision Plan.

The fact that a student has applied for financial assistance is not taken into consideration in evaluating the candidate's application for admission to the College.

Since scholarship funds of the College are not sufficient to cover the needs of the many well-qualified applicants, students are urged to consult their school counselors about national and local scholarships which may be available.

UNDERGRADUATE SCHOLARSHIPS

The renewal like the award of scholarships depends on the student's maintaining a good record. Application for the renewal of scholarships must be made annually. The necessary forms may be obtained in the Office of the Dean. Completed applications must be returned to the Scholarship Office of the College by January 6. A new financial statement completed by the applicant's family is required each year. Letters of support are requested from members of the faculty familiar with the student's academic work.
Scholarship Funds

Alumnae Regional Scholarships are available to students in all parts of the United States and Canada. These scholarships, raised by alumnae, vary in amount but may cover full tuition for four years. The awards are made by local alumnae committees and are announced to the candidates immediately after their notification of admission to the College. Holders of these scholarships who maintain a high standard of academic work and conduct, and who continue to need financial aid after the freshman year, are assured assistance either from alumnae committees in their districts or from the College. (1922)

The Alumnae Bequest Scholarship Fund, now totaling $2,551, was established by bequests received for scholarships from alumnae of the College. (1965)

The Evangeline Walker Andrews May Day Scholarship was established by bequest of Evangeline Walker Andrews of the Class of 1893. The income from this fund of $10,000 is to be used for undergraduate scholarships in the Department of English. Mrs. Andrews originated the Bryn Mawr May Day which was first held in 1900. (1963)

The Mabel Pierce Ashley Scholarship Fund was founded by bequest of Mabel Pierce Ashley of the Class of 1910. The income from the fund of $25,000 is to be awarded as a scholarship or scholarships to undergraduate students majoring in History or English. (1963)

The Elizabeth Congdon Barron Scholarship Fund. In 1960, by Mrs. Barron's bequest of $2,500, the Elizabeth Congdon Barron Fund was established "for the general purposes of the College." Through gifts from her husband, Alexander J. Barron, the fund was increased to $25,000 and the Elizabeth Congdon Barron Scholarship Fund was established. Through further gifts from Mr. Barron, the endowment has been raised to $40,000. (1964)

The Elizabeth P. Bigelow Memorial Scholarship Fund was established by gifts now amounting to $50,209 from Mrs. Henry B. Bigelow in memory of her daughter Elizabeth P. Bigelow, who was graduated cum laude in 1930. (1960)

Note: The dates in parentheses in the listings on this and the following pages indicate the year the scholarship was established.
The Book Shop Scholarships are awarded annually from the profits of the Bryn Mawr College Book Shop and from the income from the Book Shop Fund, which now amounts to $30,855. (1947)

The Mariam Coffin Canaday Scholarship Fund was established by a gift of $18,866 from the Ward M. and Mariam C. Canaday Educational and Charitable Trust. The income from this fund is to be capitalized until the fund reaches the amount of $25,000. Scholarships are then to be awarded from the income, with preference given to students from metropolitan Toledo, Ohio. (1962)

The Antoinette Cannon Memorial Scholarship Fund was established by a gift of $30,400 by Janet Thornton of the Class of 1905 in memory of her friend Antoinette Cannon of the Class of 1907. (1963)

The Jeannette Peabody Cannon Memorial Scholarship Fund, now totalling $13,416, was established in memory of Jeannette Peabody Cannon, Class of 1919, through the efforts of the New England Alumnae Regional Scholarship Committee, of which she was a member for twenty years. The scholarship is awarded every three years on the nomination of the Alumnae Scholarship Committee to a promising member of the freshman class, residing in New England, who needs financial assistance. The scholarship may be held during the remaining three years of her college course provided a high standard is maintained. In 1962, the fund was increased from $7,405 to $13,416 by a generous gift from Mrs. Donald Wing of New Haven. (1949)

The Susan Shober Carey Award was founded in memory of Susan Shober Carey by gifts now totalling $3,300 from the Class of 1925 and is awarded annually by the President. (1931)

The Florence and Dorothy Child Memorial Scholarship of Bryn Mawr College was founded by bequest of Florence C. Child of the Class of 1905. The income from this fund of $115,494 is to be used for the residence fees of one or more students who without such assistance would be unable to live in the halls. Preference is to be given to graduates of the Agnes Irwin School and to members of the Society of Friends. If no suitable applicants are available in these two groups, the scholarship aid will then be assigned by the College to students who could not live
in residence without such assistance and who are not holding other scholarships. (1957)

The Jacob Orië and Elizabeth S. M. Clarke Memorial Scholarship was established by bequest of $5,000 from the estate of Elizabeth Clarke and is awarded annually to a student born in the United States or any of its territories. (1948)

The Class of 1903 Scholarship Fund was established by gift of $12,295 on the occasion of the fiftieth reunion of the Class. The income from this fund is to be awarded annually to a member of the freshman, sophomore or junior class for use in the sophomore, junior or senior years. (1953)

The Julia Cope Collins Scholarship was established by bequest of $10,000 from the estate of Julia Cope Collins, Class of 1889. (1959)

The Alice Perkins Coville Scholarship Fund, now totalling $76,687, was established by Agnes Frances Perkins of the Class of 1898 in honor of her sister, Alice Perkins Coville. The income from this scholarship fund is used to aid a deserving student in need of financial assistance. (1948)

The Regina Katharine Crandall Scholarship was established by a group of her students as a tribute to Regina Katharine Crandall, Margaret Kingsland Haskell Professor of English Composition from 1918 to 1933. The income from this fund, which now amounts to $10,225, is awarded on the recommendation of a committee composed of the Dean of the College, a representative of the English Department, and a representative of another department chosen by the Dean, to a sophomore, junior or senior who in her written English has shown ability and promise and who needs assistance to continue her college work. (1950)

The Annie Lawrie Fabens Crozier Scholarship Fund was established by a gift of $31,656 from Mr. and Mrs. Abbott P. Usher in memory of Mrs. Usher's daughter, Annie Lawrie Fabens Crozier of the Class of 1951. The scholarship, in varying amounts up to full tuition, is to be awarded to a junior or senior of distinction who is majoring in English. (1960)

The E. Merrick Dodd and Winifred H. Dodd Scholarship Fund of $2,000 was established by bequest of Dr. and Mrs. Dodd. (1953)
The Abby Slade Brayton Durfee Scholarship Fund, which now amounts to $11,000 was founded in honor of his wife by bequest of Randall Nelson Durfee and increased by Mrs. Durfee and by Randall N. Durfee, Jr. and Mrs. Charles B. Brown of the Class of 1930. Preference in awarding it is given to candidates of English or American descent and to descendants of the Class of 1894. (1924)

The Anne Long Flanagan Scholarship was established by a gift of $29,687 from Anne Long Flanagan of the Class of 1906 on the occasion of the 55th reunion of the class. The income on this fund is to be used to provide scholarships for Protestant students. (1961)

The Cora B. Fohs and F. Julius Fohs Perpetual Scholarship Fund was established by a gift of $75,000 from the Fohs Foundation. The income only is to be used. (1965)

The Foundation Scholarships, varying in amount up to full tuition and tenable for four years, are made available by the Trustees of Bryn Mawr College. They are awarded to members of the Society of Friends who cannot meet the full expenses of tuition and residence. (1894)

The William Franklin Scholarship Fund was established by a bequest of $35,985 from Susan B. Franklin of the Class of 1889. The income from this fund is to be used for scholarships for deserving girls, preference being given whenever possible to girls from the Rogers High School, Newport, Rhode Island. (1957)

The Edgar M. Funkhouser Memorial Scholarship Fund of $30,000 was established from his estate by Anne Funkhouser Francis of the Class of 1933. Awards may vary in amount up to full tuition and be tenable for four years. Income from this fund may be awarded annually, first preference being given to residents of southwest Virginia; thereafter to students from District III eligible for aid in any undergraduate year. (1964)

The General Motors Scholarship “makes it possible for students of ability but limited resources to complete their education and thus realize their potentialities to the fullest.” In addition, the corporation makes available to private colleges unrestricted grants-in-aid toward that part of the costs of education not covered by the student’s tuition. The award, tenable for four years, may be as high as $2,000 a year, depending upon demon-
strated need. The award is made "on the basis of secondary school records and reports, as well as extra-curricular activities and leadership characteristics." The selection is made by Bryn Mawr College. (1963)

The Anna Hallowell Memorial Scholarship was founded in memory of Anna Hallowell by her family. The income on a fund of $2,585 is awarded annually to the junior in need of aid who has the highest academic record. (1912)

The Katharine Hepburn Scholarship, value $1,000, given for the year 1966-7, is awarded in honor of Katharine Hepburn to a student interested in the study of drama and motion picture, and in the cultivation of English diction and of literary appreciation. (1952)

The Katharine Houghton Hepburn Memorial Scholarship was given in memory of Katharine Houghton Hepburn of the Class of 1900. The income on this fund, now totalling $6,055, is awarded for the junior or senior year to a student who has demonstrated both ability in her chosen field and independence of mind and spirit. (1957)

The Jeanne Crawford Hislop Memorial Scholarship Fund of $5,000 was given in memory of Jeanne Crawford Hislop of the Class of 1940 by Mr. and Mrs. John H. Hislop and Mrs. Frederic W. Crawford. The income from this fund has been supplemented by gifts from Mrs. John H. Hislop. This scholarship, awarded to a junior, may be renewed for the senior year. (1939)

The George Bates Hopkins Memorial Scholarships were founded by a gift of $10,056 from Mrs. Elizabeth Hopkins Johnson in memory of her father. Preference is given to students of Music and, in default of these, to students majoring in History, and thereafter to students in other departments. (1921)

The Maria Hopper Scholarships, two in number, were founded by bequest under the will of Maria Hopper of Philadelphia and are awarded annually. The income from this fund of $10,224 is used for aid to a sophomore. (1901)

The Leila Houghteling Memorial Scholarship Fund in the amount of $10,180 was founded in memory of Leila Houghteling of the Class of 1911 by members of her family and a group of her contemporaries. It is awarded every three years on the
nomination of the Alumnae Scholarships and Loan Fund Committee to a member of the freshman class in need of financial assistance and is held during the remaining three years of her college course. (1929)

_Huguenot Society of America Grant._ On the recommendation of the College a student of Huguenot ancestry may be nominated for a grant up to $1,000 to be used for college expenses. (1962)

_The Evelyn Hunt Scholarships_, two in number, were founded in memory of Evelyn Hunt by bequest of $10,000 under the will of Evelyn Ramsey Hunt of the Class of 1898. (1931)

_The Priscilla Hunt Scholarship_ was given in memory of Priscilla Hunt of the Class of 1950 by her mother and father, Ruth Van Natta Hunt and Leigh L. Hunt. The scholarship, awarded first in 1955-6 in the amount of $1,000 and tenable for four years, will be awarded to a candidate from certain counties in the state of Indiana. (1955)

_The Lillia Babbitt Hyde Scholarship Fund_ was established by gifts of $25,600 from the Lillia Babbitt Hyde Foundation to establish the Lillia Babbitt Hyde Scholarship for students whose major subject will lead to a medical education or a scientific education in chemistry, as far as possible. (1963)

_The Jane Lilley Ireson Scholarship_ was established by a bequest of $246,776 under the will of Jennie E. Ireson, her daughter. The income on each $5,000 of this fund is to be awarded as a scholarship to a worthy student who may require financial assistance. (1959)

_The Alice Day Jackson Scholarship Fund_ of $10,195 was given by the late Percy Jackson in memory of his wife, Alice Day Jackson. The income from this fund is awarded annually to an entering student. (1930)

_The Minnie Murdoch Kendrick Memorial Scholarship_, tenable for four years, was founded by bequest under the will of George W. Kendrick, Jr., in memory of his wife. The income on this fund of $5,362 is awarded every four years to a candidate nominated by the Alumnae Association of the Philadelphia High School for Girls. (1916)

_The Misses Kirk Scholarship Fund_, now amounting to $1,401, was founded in honor of the Misses Kirk by the Alumnae Association of the Kirk School in Bryn Mawr. (1929)
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The Elizabeth B. Kirkbride Scholarship Fund was established by a gift of $1,150 from Elizabeth B. Kirkbride of the Class of 1896. The income is to be used for undergraduate scholarships. (1964)

The Clara Bertram Little Memorial Scholarship was founded by Eleanor Little Aldrich, in memory of her mother. The income from a fund now totalling $11,000 is awarded to an entering student from New England selected by the President on the basis of merit and financial need. (1947)

The Mary Anna Longstreth Memorial Scholarship, established by a gift of $5,000 and carrying free tuition, was given in memory of Mary Anna Longstreth by alumnae and children of alumnae of the Mary Anna Longstreth School and by a few of her friends. (1913)

The Lorenz-Showers Scholarship Fund now amounting to $5,000 was established by Justina Lorenz Showers of Dayton, Ohio, of the Class of 1907, in honor of her parents, Edmund S. Lorenz and Florence K. Lorenz, and of her husband, John Balmer Showers. (1943)

The Gertrude Howard McCormick Scholarship Fund was established by gift of $25,000 by the late Gertrude Howard McCormick. The scholarship, value $1,000, is awarded to a student of excellent standing, preferably for her freshman year. If she maintains excellent work in college, she may continue to receive scholarship aid through her sophomore, junior and senior years. (1950)

The Constance Lewis and Martha Rockwell Moorhouse 1904 Memorial Scholarship Fund, now amounting to $17,930, was established by the Class of 1904 in memory of Constance Lewis and Martha Rockwell Moorhouse of the Class of 1904. (1920)

The Evelyn Flower Morris Cope and Jacqueline Pascal Morris Evans Scholarship Fund, amounting to $12,500, was established by members of their families in memory of Evelyn Flower Morris of the Class of 1903 and Jacqueline Pascal Morris of the Class of 1908. (1959)

The Jean Brunn Mungall 1944 Memorial Fund, now amounting to $8,468, was established by the Class of 1944. The income is to be used for scholarships. (1955)
The Mary McLean and Ellen A. Murter Memorial Fund, now amounting to $14,320, was founded in memory of her two aunts by bequest of Mary E. Stevens of Germantown, Philadelphia. By vote of the Board of Directors the income is used for an annual scholarship. (1933)

The Frank L. Neall and Mina W. Neall Scholarship Fund was established by a legacy of $25,000 from the Estate of Adelaide W. Neall of the Class of 1906 in memory of her parents. The income is to be used for scholarship purposes at the discretion of the Trustees of the College. (1957)

The New Hampshire Scholarship Fund of $15,000 was established in 1965 by the Spaulding-Potter Charitable Trust. A matching fund was raised by contributions from New Hampshire alumnae. Income from the two funds will be awarded each year to an undergraduate from New Hampshire on the recommendation of the New England Regional Scholarship Committee. (1965)

The Alice F. Newkirk Scholarship Fund was founded by a bequest of $2,500 by Alice F. Newkirk. The increase is to be used for scholarships. (1965)

The Mary Frances Nunns Scholarship was established by a bequest of $25,275 under the will of Mary Frances Nunns. The income only is to be used. (1960)

The Florence Morse Palmer Scholarship was founded in memory of Florence Morse Palmer by her daughter, Jean T. Palmer of the Class of 1924, by gifts now totalling $10,000. (1954)

The Margaret Tyler Paul Scholarship was established by a 40th Reunion gift of $30,000 from the Class of 1922. (1963)

The Fanny R. S. Peabody Scholarship Fund was established by bequest of $177,927 in the will of Fanny R. S. Peabody. Until the autumn of 1964, the income from this fund was used to support the Seven College Conference Scholarships. With the reorganization of the latter program, the income from the Peabody Fund will be awarded to students from the western states. (1943)

The Delia Avery Perkins Scholarship was established by bequest of $58,474 from Delia Avery Perkins of the Class of 1900. Mrs. Perkins was Chairman of the New Jersey Scholarship Committee for a number of years. The income on this fund is
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to be awarded to students entering from Northern New Jersey. (1965)

The Philadelphia Board of Public Education Scholarships, tenable for four years, are awarded to graduates of Philadelphia high schools nominated by the Board of Public Education of Philadelphia. (1898)

The Louise Hyman Pollak Scholarship was founded by the Board of Trustees from a bequest of $5,061 by Louise Hyman Pollak of the Class of 1908. The income from this fund now totalling $6,666, which has been supplemented by gifts from the late Julian A. Pollak, and his son, David Pollak, is awarded annually to an entering student from one of the central states, east of the Mississippi River. Preference is given to residents of Cincinnati. (1932)

The Anna M. Powers Memorial Scholarship was founded in memory of Anna M. Powers by a gift from her daughter, Mrs. J. Campbell Harris. The income on this fund of $5,542 is awarded annually to a senior. (1902)

The Thomas H. Powers Memorial Scholarship was founded in memory of Thomas H. Powers by bequest under the will of his daughter, Mrs. J. Campbell Harris. The income on this fund of $4,598 is awarded annually to a senior. (1902)

The Anna and Ethel Powers Memorial Scholarship was established by a gift of $1,000 in memory of Anna Powers of the Class of 1890 by her sister, Mrs. Charles Merrill Hough. The fund is now re-established at $10,808 in memory of both Anna Powers and her sister, Mrs. Hough (Ethel Powers), by Mrs. E. Baldwin Smith (Nancy Hough). (1919, 1958-63)

The Procter and Gamble Scholarship provides an amount up to full tuition and fees, and an allowance for books. The scholarship may be renewed annually throughout the four years on the basis of successful undergraduate performance and continuing financial need. This scholarship program was established by the Procter and Gamble Fund "in recognition of the responsibility assumed by private women's colleges in graduating capable, well-informed women." The award is made by Bryn Mawr College. (1955)

The James E. Rhoads Memorial Junior Scholarship was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958 and 1959, the Alumnae Association increased
the fund to $27,010, the income from which is awarded annually to a student who has attended Bryn Mawr College for at least three semesters, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. (1898)

*The James E. Rhoads Memorial Sophomore Scholarship* was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958 and 1959, the Alumnae Association increased the fund to $27,010, the income from which is awarded annually to a student who has attended Bryn Mawr College for at least one semester, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. (1898)

*The Amelia Richards Scholarship* was founded in memory of Amelia Richards of the Class of 1918 by bequest of $11,093 under the will of her mother, Mrs. Frank P. Wilson. It is awarded annually by the Trustees on the nomination of the President. (1921)

*The Maximilian and Reba E. Richter Scholarship Fund* was established by a bequest of $50,000 in the will of Max Richter, father of Helen Richter Elser of the Class of 1913. The income from this fund is to be used to provide assistance for one or more students in the obtaining of either an academic or professional degree. The fund shall be administered on a non-sectarian basis to such applicants as are deemed worthy by habits of character and scholarship. No promises of repayment shall be exacted but it is hoped that students so benefited will desire when possible to contribute to the fund in order that similar aid may be extended to others. Such students shall be selected from among the graduates of public high schools or public colleges in the City of New York. (1961)

*The Lidie C. B. Saul Scholarship*, tenable for four years, is given by the Alumnae Association of the Philadelphia High School for Girls. It is awarded every four years to the graduate of the Philadelphia High School for Girls who enters Bryn Mawr College with the highest grade of that year. (1895)

*The Serena Hand Savage Memorial Scholarship* was established in memory of Serena Hand Savage of the Class of 1922 by her friends. The income from a fund of $22,952 is awarded to a member of the junior class who shows great distinction of scholarship and character and who needs financial assistance. This scholarship may be renewed in the senior year. (1951)
The Constance Schaar Scholarship Fund, now totalling $7,284, was established in 1964 by her parents and friends in memory of Constance Schaar of the Class of 1963. The Class of 1963 added their reunion gift in 1964 to this fund. (1964)

The Frances Marion Simpson Scholarships, carrying up to full tuition and tenable for four years, were founded in memory of Frances Simpson Pfahler of the Class of 1906 by Justice Alexander Simpson, Jr., by gifts amounting to $20,682. One scholarship is awarded each year to a member of the entering freshman class who cannot meet in full the fees of the College. In awarding these scholarships first preference is given to residents of Philadelphia and Montgomery Counties who have been prepared in the public schools of these counties or at home by parents or guardians; thereafter, under the same conditions, to residents of other counties of Pennsylvania, and, in special cases, to candidates from other localities. Holders of these scholarships are expected to repay the sums advanced to them. If they become able during their college course to pay the tuition fees in whole or in part, they are required to do so. (1912)

The Mary Williams Sherman Memorial Scholarship Fund, now amounting to $4,150, was established by bequest of Bertha Williams of Princeton, New Jersey. (1942)

The Shippen Huidekoper Scholarship Fund of $5,000 was established by an anonymous gift. The income is awarded annually on the nomination of the President. (1936)

The Gertrude Slaughter Scholarship Fund was established by bequest of $19,909 by Gertrude Taylor Slaughter of the Class of 1893. The income on this fund is to be used for undergraduate scholarships, preferably to students of Greek or Latin. (1964)

The Anna Margaret Sloan and Mary Sloan Scholarships were founded by bequest of Mary Sloan of Pittsburgh. The income from this fund of $16,858 is awarded annually to students majoring in Philosophy or Psychology. (1942)

The Cordelia Clark Sowden Scholarship Fund was established by a bequest of $15,000 from the Estate of Helen C. Sowden. The income from this fund is used for scholarships to be awarded by Bryn Mawr College under the rules in effect at the time of the award. (1957)

The Amy Sussman Steinhart Scholarship, carrying full tuition, was founded in memory of Amy Sussman Steinhart of the Class of 1902 by her family and friends. The income from gifts now
totalling $33,652 is awarded annually to an entering student from one of the states on the west coast. (1932)

The Mary E. Stevens Scholarship Fund was given in memory of Mary E. Stevens by former pupils of The Stevens School in Germantown. The income on this fund of $3,188 is awarded annually to a junior. (1897)

The Summerfield Foundation Scholarship was established by a gift from the Solon E. Summerfield Foundation. The income from this fund, which now totals $9,000, is to be used to assist able students who need financial help to continue their studies. (1958)

The Mary Hamilton Swindler Scholarship was established in honor of Mary Hamilton Swindler, Professor of Classical Archaeology from 1931 to 1949, by a group of friends and former students, by gifts totalling $8,493. The income from this fund is used for a scholarship for the study of Archaeology at Bryn Mawr College. (1950)

The Elizabeth P. Taylor Scholarship Fund, now amounting to $10,660, was established by a bequest from Elizabeth P. Taylor of the Class of 1921. (1961)

The Trustees' Scholarships, varying in amount up to full tuition, and tenable for four years, are made available by the Trustees of Bryn Mawr College for students prepared in the high schools of Philadelphia and its suburbs. Two of these scholarships are awarded annually to candidates who have received all their preparation for entrance in Philadelphia high schools and are recommended by the Board of Public Education of Philadelphia; two are awarded annually to candidates who have received all their preparation for entrance in public schools in the suburbs of Philadelphia and are awarded by the College after consultation with the principals of the schools presenting candidates. The amount of the award varies according to the need of the applicant. (1895)

Two or sometimes three of these scholarships are supported by the income from The Jacob Fussell Byrnes and Mary Byrnes Fund, which was established in memory of her mother and father by a bequest of $51,513 under the will of Esther Fussell Byrnes. (1948)

The Julia Ward Scholarship Fund was established by a gift of $7,075 for a scholarship in memory of Julia Ward of the Class.
of 1923 by one of her friends and by additional gifts from others. The income on this fund which now amounts to $21,693 is to be used for undergraduate scholarships. (1962)

The Eliza Jane Watson Scholarship Fund was established by gifts of $25,000 from the John Jay and Eliza Jane Watson Foundation. The income from this fund is to be used to assist one or more students as selected by the College to meet the cost of tuition. (1964)

The Elizabeth Wilson White Memorial Scholarship was founded in memory of Elizabeth Wilson White by a gift of $7,513 by Thomas Raeburn White. It is awarded annually by the President. (1923)

The Thomas Raeburn White Scholarships, established by a gift of $25,000, made by Amos and Dorothy Peaslee on April 6, 1964 in honor of Thomas Raeburn White, Trustee of the College from 1907 until his death in 1959. Counsel to the College throughout these years and President of the Trustees from 1956 to 1959. The income from this fund is to be used for scholarships to undergraduate students studying foreign languages, with preference given to those students who will be studying abroad. (1964)

The Mary R. G. Williams Scholarship Fund was established from the Fund for Promoting College Education for Women established by bequest of Mary R. G. Williams. The income from this fund of $5,694 will be used for emergency grants for students who are paying their own way through college. (1957)

The Mary Peabody Williamson Scholarship was founded by bequest of $1,000 by Mary Peabody Williamson of the Class of 1903. (1939)

The Marion H. Curtin Winsor Memorial Scholarship was established by a bequest of $10,000 in the will of Mary Winsor, in memory of her mother. The income on this fund is to be awarded to a resident Negro student. (1960)

The Mary Winsor Scholarship in Archaeology was established by a bequest of $3,000 under the will of Mary Winsor. The income only is to be used. (1960)

The Ellen Winsor and Rebecca Winsor Evans Memorial Scholarship Fund was established by a bequest of $5,230 in the will of Rebecca Winsor Evans. The scholarship is to be awarded to a resident Negro student. (1962)
The Rebecca Winsor Evans and Ellen Winsor Memorial Scholarship Fund was established by a bequest of $5,230 in the will of Ellen Winsor. The scholarship is to be awarded to a resident Negro student. (1962)

The Lila M. Wright Memorial Scholarship was founded in memory of Lila M. Wright by gifts totalling $2,987 from the alumnae of Miss Wright’s School of Bryn Mawr. (1934)

The Georgie W. Yeatman Scholarship was founded by bequest of $1,000 under the will of Georgie W. Yeatman of Philadelphia. (1941)

SCHOLARSHIPS FOR FOREIGN STUDENTS

The Bryn Mawr Canadian Scholarship will be raised and awarded each year by Bryn Mawr alumnae living in Canada. The scholarship, varying in amount, will be awarded to a Canadian student entering either the undergraduate or graduate school. (1965)

The Chinese Scholarship comes in part from the annual income of a fund now totalling $30,027 established by a group of alumnae and friends of the College in order to meet all or part of the expenses of a Chinese student during her four undergraduate years at Bryn Mawr College. (1917)

The Marguerite N. Farley Scholarships for foreign students were established by bequest of Marguerite N. Farley. The income from a fund of $331,425 will be used for scholarships for foreign graduate and undergraduate students covering part or all of their expenses for tuition and residence. (1956)

The Special Trustees’ Scholarship is awarded every four years to a foreign student. It carries free tuition and is tenable for four years. The scholarship for students from foreign countries was first offered by the Trustees in 1940.

The Undergraduate Scholarship, raised by the Undergraduate Association and awarded by the Association in consultation with the Director of Admissions, is awarded each year to a foreign student entering Bryn Mawr. The award is variable in amount but covers as a minimum the cost of tuition. (1938)
Academic Awards

Prizes and Academic Awards

The following awards, fellowships, scholarships and prizes are in the award of the Faculty and are given solely on the basis of academic distinction and achievement.

The Bryn Mawr European Fellowship, value $1,000, has been awarded each year since the first class was graduated in 1889. It is given for merit to a member of the graduating class, to be applied toward the expenses of one year's study at some foreign university. The holder of this fellowship receives in addition an Elizabeth S. Shippen Scholarship for Foreign Study.

The Commonwealth Africa Travelling Scholarship was established by a grant of $50,000 from the Thorncroft Fund, Inc. at the request of Helen and Geoffrey de Freitas. The income from this fund will be used to send, for at least six months, a Bryn Mawr graduate to a university or college in Commonwealth Africa, or former British colony in Africa, to teach or to study, with a view to contributing to mutual understanding and the furtherance of scholarship. (1965)

The Maria L. Eastman Brooke Hall Memorial Scholarship was founded in memory of Maria L. Eastman, Principal of Brooke Hall School for Girls, Media, Pennsylvania, by gifts totalling $3,310 from the alumnae and former pupils of the school. It is awarded annually to the member of the junior class with the highest general average and is held during the senior year. Transfer students who enter Bryn Mawr as members of the junior class are not eligible for this award. (1901)

The Charles S. Hinchman Memorial Scholarship was founded in memory of the late Charles S. Hinchman of Philadelphia by a gift of $12,000 made by his family. It is awarded annually to a member of the junior class for work of special excellence in her major subject and is held during the senior year. (1917)

The Sheelah Kilroy Memorial Scholarships in English were founded in memory of their daughter Sheelah, by Dr. and Mrs. Philip Kilroy by a gift of $5,000. These scholarships are awarded annually on the recommendation of the Department of English as follows: to a student for excellence of work in second-year or advanced courses in English, and to the student in the first-year course in English Composition who writes the best essay during the year. (1919)
The Elizabeth S. Shippen Scholarships were founded by two bequests of $5,000 each under the will of Elizabeth S. Shippen of Philadelphia. Three scholarships are awarded annually, one to the member of the senior class who receives the Bryn Mawr European Fellowship, and two to members of the junior class, as follows: 1. The Shippen Scholarship in Science, to a student whose major subject is Biology, Chemistry, Geology or Physics; 2. The Shippen Scholarship in Foreign Languages, to one whose major subject is French, German, Greek, Italian, Latin, Russian or Spanish. To be eligible for either of these two scholarships a student must have completed at least one semester of the second-year course in her major subject. Neither may be held by the winner of the Charles S. Hinchman Memorial Scholarship. Work in elementary courses will not be considered in awarding the scholarship in foreign languages; 3. The Shippen Scholarship for Foreign Study (See European Fellowship, page 147). (1915)

The Gertrude Slaughter Fellowship was established by a bequest of $50,000 in the will of Gertrude Taylor Slaughter of the Class of 1893. The Fellowship is to be awarded to a member of the graduating class for excellence in scholarship to be used for a year's study in the United States or abroad. (1964)

The Elizabeth Duane Gillespie Fund for Scholarships in American History was founded by a gift from the National Society of Colonial Dames of America in the Commonwealth of Pennsylvania in memory of Elizabeth Duane Gillespie. Two prizes are awarded annually on nomination by the Department of History, one to a member of the sophomore or junior class for work of distinction in American History, a second to a student doing advanced work in American History for an essay written in connection with that work. The income from this fund of $1,970 has been supplemented since 1955 by annual gifts from the Society. (1903)

The Helen Taft Manning Essay Prize in History was established in honor of Helen Taft Manning, in the year of her retirement, by her class—1915. The income on a fund of $2,600 is to be awarded as the Department of History may determine. (1957)

The Academy of American Poets Poetry Prize of $100 has been awarded each year for five years to the student who submits to the Department of English the best poem or group of poems. The Award, given by the Academy of American Poets, was first made in 1957 and renewed for five years in 1961.
Academic Awards

The Bain-Swiggett Poetry Prize was established by a gift of $1,000 from Mr. and Mrs. Glen Levin Swiggett. This prize is to be awarded annually by a committee of the Faculty on the basis of work submitted. The income only is to be used. (1958)

The Hester Ann Corner Prize for distinction in literature was established in memory of Hester Ann Corner of the Class of 1942 by gifts totalling $2,625 from her classmates and friends. The award is made annually to a junior or senior on the recommendation of a committee composed of the chairmen of the Departments of English and of classical and modern foreign languages. (1950)

The Katherine Fullerton Gerould Memorial Prize was founded in 1946 by a gift of $1,300 from a group of alumnae, many of whom were students of Mrs. Gerould when she taught at Bryn Mawr from 1901-10. This year the fund was increased by bequest of $2,400 by one of her former students. It is awarded by a special committee to a student who shows evidence of creative ability in the fields of informal essay, short story, longer narrative or verse. (1946)

The M. Carey Thomas Essay Prize is awarded annually to a member of the senior class for distinction in writing. The award is made by the Department of English for either creative or critical writing. It was established in memory of Miss Thomas by her niece, Millicent Carey McIntosh of the Class of 1920. (1943)

The Charlotte Angas Scott Prize in Mathematics. A prize to be awarded annually to an undergraduate on the recommendation of the Department of Mathematics was established by an anonymous gift in memory of Charlotte Angas Scott, Professor of Mathematics and a member of the faculty of Bryn Mawr College from 1885-1924. The income only from this gift is to be used. (1961)

The Anna Pell Wheeler Prize in Mathematics. A prize to be awarded annually to an undergraduate on the recommendation of the Department of Mathematics was established by an anonymous gift in honor of Anna Pell Wheeler, Professor Emeritus of Mathematics and a member of the faculty of Bryn Mawr College until her death in 1966. The income only from this gift is to be used. (1961)

The Emma Osborn Thompson Prize in Geology was founded by bequest of Emma Osborn Thompson of the Class of 1904.
From the income on the bequest of $500 a prize is to be awarded from time to time to a student in Geology. (1963)

*The Jeanne Quistgaard Memorial Prize* was given by the Class of 1938 in memory of their classmate, Jeanne Quistgaard. The income on this fund of $690 may be awarded every two years to a student in Economics. Awarded in 1965. (1938)

*The Esther Walker Award* was founded by the bequest of $1,000 from William John Walker in memory of his sister, Esther Walker, of the Class of 1910. It may be given annually to a member of the senior class who in the judgment of the Faculty shall have displayed the greatest proficiency in the study of living conditions of Northern Negroes. (1940)

**Scholarships for Medical Study**

The following scholarships may be awarded to seniors intending to study medicine, after their acceptance by a medical school, or to graduates of Bryn Mawr intending or continuing to pursue medical education. Applications for the scholarships should be made to the Dean of the College before April 15 preceding the academic year in which the scholarship is to be held. Applications for renewal of scholarships must be accompanied by letters of recommendation from instructors in the medical school.

*The Linda B. Lange Fund* was founded by bequest of $30,000 under the will of Linda B. Lange of the Class of 1903. The income from this fund will provide the Anna Howard Shaw Scholarship in Medicine and Public Health, awarded on recommendation of the President and Faculty to a member of the graduating class or a graduate of the College for the pursuit, during an uninterrupted succession of years, of studies leading to the degrees of M.D. and Doctor of Public Health. The award may be continued until the degrees are obtained. (1948)

*The Hannah E. Longshore Memorial Medical Scholarship* was founded by Mrs. Rudolph Blankenburg in memory of her mother by a gift of $10,000. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school. It may be renewed for each year of medical study. (1921)
Student Employment

The Jane V. Myers Memorial Medical Scholarship Fund of $10,000 was established by Mrs. Rudolph Blankenburg in memory of her aunt. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school. It may be renewed for each year of medical study. (1921)

The Harriet Judd Sartain Memorial Scholarship Fund was founded by bequest of $21,033 under the will of Paul J. Sartain. The income from this fund is to establish a scholarship which is awarded to a member of the graduating class who in the judgment of the Faculty needs and is deserving of assistance for the study of medicine. This scholarship may be continued for the duration of her medical course. (1948)

Student Employment

Students may obtain employment such as clerical and library work, typing, reading aloud, child care and waitressing through the Bureau of Recommendations, Taylor Hall. In conducting this Bureau, the College offers an employment service for permanent, temporary and part-time positions to its alumnae and former students as well as to those in college. It also offers assistance in choosing a vocation. Students registering with the Bureau will be informed of openings in the kind of work they have requested.

The Bureau also acts as a clearing house for letters of recommendation for its registrants; these letters will be sent upon request to prospective employers and other agencies for summer work for undergraduates or for full or part-time employment for alumnae and former students.

Students of foreign citizenship wishing employment should consult the Adviser to Foreign Students whose office is in Dalton Hall.
Loan Funds

Bryn Mawr College administers two kinds of loan programs. The first consists of three funds established through the generosity of alumnae and friends of the College. Applications for loans from the three funds must be accompanied by the Parents’ Confidential Statement prepared by the College Scholarship Service of the College Entrance Examination Board.

The Students’ Loan Fund of the Alumnae Association of Bryn Mawr College was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students to obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

Loans may be used for any purpose approved by the committee, but not more than $500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed $1,500. Students who wish loans may obtain from the Dean or the Alumnae Office, on the second floor of the Deanery, the necessary blanks, which must be accompanied by a letter of recommendation from the Dean. As a rule, money is not loaned to freshmen or to students in their first semester of graduate work. Applications, except in cases of emergency, must be filed before September 10. Approximately a month is required for action on applications.

While the student is in college no interest is charged, but she may reduce the principal of the loan if she so desires. From September 1, 1964, the interest rate is three per cent, to be paid after the student leaves college. The entire principal must be repaid within five years from the time the student leaves college at the rate of twenty per cent each year.

Contributions to the Loan Fund may be sent to the Chairman of Scholarships and Loan Fund, Bryn Mawr College Alumnae Association, Bryn Mawr, Pennsylvania.

The Mary Hill Swope Loan Fund was established June 1, 1945, by a gift of the late Mrs. Gerard Swope (Mary Hill, A.B. 1896) under the following conditions:
To assist in the education of young women irrespective of color or creed attending Bryn Mawr College, the income of the fund to be loaned to students in the following manner:

a. The following order of preference shall be followed in awarding such loans—to students coming from New Jersey, to students coming from Missouri, to students coming from any other location who have had not less than one year of residence at the College.

b. The loans in the above order of preference, and in the following manner, shall be awarded by the President of Bryn Mawr College, or by a committee appointed by her from time to time.

c. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.

d. These loans shall be used primarily to enable the exceptional student to continue her studies, which otherwise would be prevented through lack of means.

e. Except under extraordinary circumstances, the maximum amount which may be borrowed annually is $500. No interest is charged while the student is in college. From September 1, 1964, the interest rate is three per cent, to be paid after the student leaves college. The principal is to be repaid within five years from the time the student graduates or leaves Bryn Mawr at the rate of twenty per cent each year.

The Gerard and Mary Hill Swope Loan Fund was established in 1962 under the following conditions:

a. The $200 loans required of scholarship students may be borrowed from this fund. Applications must be submitted simultaneously with scholarship applications.

b. Non-scholarship students and graduate students are also eligible to apply for loans from this fund.

c. The maximum amount which can be borrowed for any given academic year is $500.

d. While the student is in college or graduate school no interest is charged, but she may reduce the principal of the loan if she so desires. From September 1, 1964, the interest rate is three per cent, to be paid after the student leaves college. The entire
principal must be repaid within five years from the time the student leaves college at the rate of twenty per cent each year.

e. Loans are awarded by a committee consisting of the Dean of the College (Chairman), the Dean of the Graduate School and the Director of Admissions.

The second kind of loan program administered by the College is based on government funds made available through the National Defense Education Act (NDEA) Student Loan Program. Applications for loans must be accompanied by the Parents' Confidential Statement prepared by the College Scholarship Service of the College Entrance Examination Board. Borrowers must subscribe in writing to an oath or affirmation of allegiance to the United States of America. Under the NDEA Student Loan Program, students may borrow up to $1,000 each year, depending on need, and all loans from this source may not exceed a total of $5,000.

Students who, upon graduation, teach on a full-time basis in public or private non-profit elementary and secondary schools and in institutions of higher education are allowed cancellation of their debts at the rate of ten per cent for each year of teaching up to a maximum cancellation of fifty per cent of the total loan.
Alumnae Representatives

All Alumnae officers and representatives will be glad to give general information about the College.

Specific questions in regard to admissions or scholarships should be directed to the Office of Admissions, Bryn Mawr College, Bryn Mawr, Pennsylvania, 19010.

Officers of the Alumnae Association

President, Mrs. Thomas Thacher, Dodgewood Road, Bronx, N. Y. 10471
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Chairman, Scholarship and Loan Committee, Mrs. Robert E. Forster, 501 Oakley Road, Haverford, Pa. 19041
Editor, The Alumnae Bulletin, Mrs. Arthur M. Sherwood, 19 Cleveland Lane, Princeton, N. J. 08540
Alumnae Secretary, Mrs. Herbert W. Reisner, The Deanery, Bryn Mawr, Pa. 19010
Executive Secretary, Alumnae Fund, Miss Ellenor Morris, Braefield, Chester Springs, Pa. 19425

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### Officers of Alumnae Groups and College Representatives

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<th>City</th>
<th>Representative</th>
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<tbody>
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<td>Dothan</td>
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<td>Arizona</td>
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Directions to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By air: From the Philadelphia International Airport take the airport limousine to Philadelphia and the Paoli Local to Bryn Mawr or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.

By automobile: From the east or west take U.S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43—Interstate #76), turning right at the exit marked "Ardmore-Chester" to Pa. #23, which is 3.5 miles east of the toll gate; continue into Alternate #23 (Montgomery Avenue) which leads directly into the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues, continue for one block, then turn left again to Yarrow Street which leads directly to the campus.

By bus: All Greyhound buses arrive at the Philadelphia terminal at 17th and Market Streets, adjoining Suburban Station. Trailways buses arrive at 13th and Arch Streets, three blocks from Suburban Station. Take the Paoli Local from Suburban Station to Bryn Mawr.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.
BRYN MAWR
undergraduate courses
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