

1971

Bryn Mawr College College Catalogue and Calendar, 1971-1973

Bryn Mawr College

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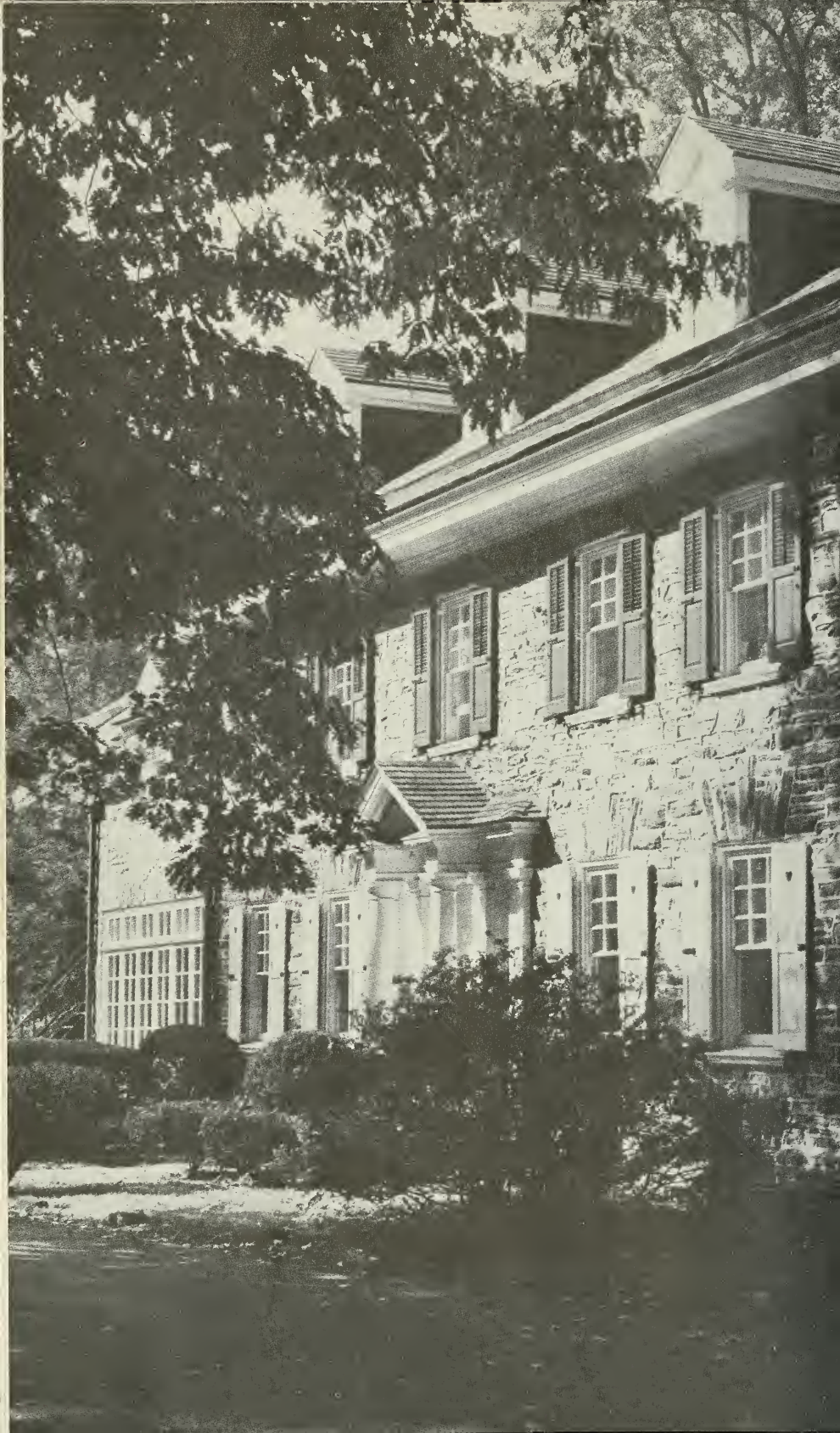
Bryn Mawr
College Calendar

The Graduate School
of Social Work &
Social Research

1971-1972







Bryn Mawr College Calendar *Archives*
The Graduate School
of Social Work and Social Research

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Issue for the Session of 1971-72

September 1971 *Volume LXIV Number 4*

The Graduate School of Social Work and Social Research of Bryn Mawr College 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 curriculum of concurrent course work and practicum 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, students who have been admitted to the doctoral program may arrange to begin on a part-time basis.

CORRESPONDENCE regarding admission to The Graduate School of Social Work and Social Research should be addressed to:

Office of Admissions
The Graduate of School of Social Work and Social Research
Bryn Mawr College
815 New Gulph Road
Bryn Mawr, Pennsylvania 19010

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Academic Calendar 1971-72

The Graduate School of Social Work and Social Research

First Semester

1971

- Sept. 7 *Graduate residences open.*
- Sept. 8 *Registration of all Social Work Students.*
- Sept. 13 *First Semester Seminars begin.*
- Sept. 22 *Closing Date for GSLFT registration for examination on Oct. 9.*
- Sept. 23 *Practicum begins.*
- Oct. 9 *Graduate School Foreign Language Test.*
- Oct. 22 *Fall vacation begins at 5 p.m. (Practicum continues on regularly scheduled days.)*
- Oct. 27 *Fall vacation ends at 9 a.m.*
- Nov. 24 *Thanksgiving Holiday begins after last seminar. (No Practicum.)*
- Nov. 29 *Thanksgiving Holiday ends at 9 a.m.*
- Dec. 14 *Last day of seminars for First Semester; Practicum continues on regularly scheduled days.*
- Dec. 14-15 *Registration for Semester II.*
- Dec. 20-22 *Examinations.*
- Dec. 22 *Winter vacation begins at 5 p.m. (No seminars or practicum.)*

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- Jan. 3 *Practicum resumes on regularly scheduled days.*
- Jan. 14 *Last day of Practicum in First Semester.*

Second Semester

- Jan. 17 *Work of the Second Semester begins at 9 a.m. (Seminars and Practicum resume on regularly scheduled days.)*
- Jan. 19 *Closing Date for GSLFT registration for examination on Feb. 5.*
- Feb. 1 *Final date for filing completed applications for Bryn Mawr fellowships, scholarships, and grants. (Citizens of the United States and Canada.)*
- Feb. 5 *Graduate School Foreign Language Test.*
- Mar. 10 *Spring vacation begins at 5 p.m. (Practicum continues on regularly scheduled days.)*
- Mar. 20 *Spring vacation ends at 9 a.m.*
- Mar. 29 *Ph.D. dissertations must be submitted to the Office of The Research School of Social Work and Social Research.*
- Mar. 29 *Closing Date for GSLFT registration for examination on Apr. 15.*
- Apr. 15 *Graduate School Foreign Language Test.*
- Apr. 28 *Last day of seminars and practicum.*
- May 1 *Master's Papers due.*
- May 8-10 *Examinations.*
- May 15 *Conferring of degrees and close of 87th academic year of the College and the 56th year of the School. Graduate residences close.*

Admission to the Graduate School of Social Work and Social Research

The Graduate School of Social Work and Social Research is open to qualified graduates from colleges or universities of recognized standing. Both men and women are admitted to the School and are accepted as candidates for the degrees of Master of Social Service and Doctor of Philosophy.

Application for admission, to be made to the Office of Admissions of the School, must be supported by official transcripts of the applicant's academic record, both graduate and undergraduate. The Miller Analogies Test is required. (Instructions concerning this test will be given after the application has been received.) A letter from the dean of each college or university attended and from two or more professors with whom the applicant did his preparation are required and will be requested by the School.

An application fee of \$15 must accompany the application. This fee is not refunded or credited toward tuition. The closing date of applications is February 15.

A personal interview is usually arranged with a member of the faculty of the School or with an appropriate person near the residence of an applicant living a considerable distance from Bryn Mawr.

Within ten days after official notice of admission to the Graduate School of Social Work and Social Research, an enrollment fee of \$100 is to be paid to the Comptroller of Bryn Mawr College. This fee is credited to the tuition for the first semester. It is not refunded if the student fails to register.

Foreign Applicants: The closing date for applications is February 15 for admission the following September. Applications must include the scores of the Test of English as a Foreign Language (TOEFL). Candidates who will be offering scores of the TOEFL must register for it in September and take the test not later than October of the year preceding the year in which they wish to enter.

For information concerning the TOEFL write to: TOEFL, Educational Testing Service, Princeton, New Jersey 08540. Tests are given on October 25, 1971; January 10, March 27, and June 5, 1972.

A very limited amount of financial support is available for foreign students.

Financial Aid

A limited amount of financial aid is available for full-time students in the Graduate School of Social Work and Social Research. Some fellowships and scholarships are provided from the general funds of the College, from the gifts of alumni and other generous donors, and from government agencies and private foundations.

Bryn Mawr College administers a number of loan funds under the supervision of a Loan Fund Committee. The Gerard and Mary Hill Swope Loan Fund was established in 1962 and is available for men and women. The maximum amount which can be borrowed for any given academic year is \$500. No interest is charged while the student is at Bryn Mawr. The interest rate is three per cent, to be paid after the student leaves Bryn Mawr. The principal is to be repaid within five years from the time the student leaves Bryn Mawr at the rate of twenty per cent each year.

Bryn Mawr also participates in the National Defense Student Loan Program, NDEA Title II. Loans are available to qualified graduate students under this title.

Other loan funds—the Bertha Goldstein Memorial, the Rachel Pflaum Memorial, the Ethel Rupert Memorial and the Carola Woerishoffer Club Fund—from which small amounts can be borrowed are also available.

The terms of the various awards and loans 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 in making certain awards. Requests for financial assistance are considered after the application process is completed and applicants have been admitted into the Graduate School of Social Work and Social Research. The School requires that students seeking financial aid file the Graduate and Professional Student's Financial Statement. This form will be sent upon request after a student is admitted.

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.

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

Transfer Credit

Transfer credit in an amount up to the equivalent of one year of the program for the M.S.S. may be allowed for work done at other accredited schools of social work. 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 Dean.

Residence Requirements

For the Ph.D. degree, candidates must be in residence two years; this may be reduced to one year for Bryn Mawr graduates. Part of the work for the Ph.D. may be done in other institutions. For the M.S.S. degree candidates must be in residence one year.

University of Pennsylvania Reciprocal Plan

Under the Reciprocal Plan, courses at the University of Pennsylvania Graduate School of Arts and Sciences are available to Bryn Mawr graduate students. All full-time students and such part-time students as intend to become candidates for the Ph.D. degree are eligible. The number of courses which may be taken at the University is limited to one per semester. 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 Arts and Sciences of the University of Pennsylvania when registering there. The University charges a small general fee for the use of the library, a library deposit, which is refundable, and fees for late registration. Ordinarily students are not advised to undertake such work during their first year at Bryn Mawr.

Degree Candidacy

Students become candidates for advanced degrees only after they have met the School's requirements and, in the case of the Ph.D. degree, made formal application which has been approved by the Doctoral Committee of The Graduate School of Social Work and Social Research.

Summer Work

Arrangements can be made for doctoral students to continue research during the summer or to enroll for tutorials and independent study. The amount of credit for the work and the tuition fee to be charged depend upon the particular circumstances. Students should register for such work at The Graduate School for Social Work and Social Research early in June.

Registration

Every student in The Graduate School of Social Work and Social Research must register for courses during the registration period listed in the School Calendar. Permission to make any change in registration must be received from the Dean of the School.

Only courses given in The Graduate School of Social Work and Social Research are described in this Calendar. Unless otherwise noted, courses are for one semester. Descriptions of other graduate courses given at Bryn Mawr may be found in the Calendar of the Graduate School of Arts and Sciences.

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 academic 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.

Exclusion

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.

Withdrawal and Readmission

A student who has withdrawn from the School is not automatically readmitted. After a year's absence he or she may request readmission and should consult the Dean and the Chairman of Admissions concerning the procedure to be followed.

Leaves of Absence

A student whose academic work is in good standing may apply to the Dean for a leave of absence. A leave is generally requested for an academic year. If the student wishes to return to the program at the end of that year, he or she should write to the Dean requesting reinstatement. Available space in the program and length of time the student has been away from the School will be factors affecting reinstatement. A student extending leave beyond the approved period will need to reapply for admission to the School.

Medical Leave of Absence

The student may, on the recommendation of a Physician, at any time request a medical leave of absence for reasons of health. Re-entrance will be granted upon evidence of the student's capacity to meet the demands of his or her program.

Programs and Degrees

Bryn Mawr College awards the degrees of Master of Social Service and Doctor of Philosophy in the Graduate School 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 Service Delivery, Social Service Management, Community Development, or Social Planning. Two academic years of full-time study are required. The degree represents the completion of a concurrent program of course work and practicum. Provision is made for field instruction in a range of public and voluntary agencies and organizations with programs in such fields and settings as: Child and Family Welfare, Community Mental Health, Community Welfare Research, Corrections, Intergroup Relations, Medical and Psychiatric Social Work, Mental Retardation, Neighborhood Organization, School Social Work, Social Planning, Social Rehabilitation, and Urban Renewal.

Prerequisites. The prerequisite for the M.S.S. degree is a Bachelor's 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.

PROGRAM OF WORK

The first-year program is similar for all students except for the selection of either Social Casework or Community Organization as the principal focus in social work practice. The first-year required courses are:

Social Casework I and II
or
Community Organization I and II
Personality Theory
Social Theory
Social Welfare Policy and Services
Concepts in Research and Statistics
Field Instruction I and II

In addition the student is expected to take two electives during the first year of study.

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The courses required in the second year are in part determined by the student's area of practice concentration. These include a choice of Social Service Delivery, Social Service Management, Community Development, or Social Planning; and for all students, a practicum.

SECOND-YEAR OPTIONS

Community Development

Community Development deals with both geographic and functional communities and is concerned with the development of a sense of community within a group, increased self-determination of a community especially in regard to institutionalized social services, and the process of organizing within a community both for internal and external social change.

Social Planning

Social Planning enables students to understand: the assumptions underlying planning in general; the elements of a general theory of planning; the inter-relationships among auspices, funding, clientele, discipline of the planner, objectives, and the planning process; and the distinctive criteria of social planning in community organization.

Social Service Delivery

Social Service Delivery is concerned with a range of activities which are designed to enhance the social functioning of individuals, families, and small groups and to improve the structure of the systems through which organized social provisions of the community are offered. Direct and indirect methods of intervention, such as casework, family therapy, group therapy, and consultation, are among the activities utilized to accomplish these purposes.

Social Service Management

Social Service Management has as its central goal the improvement of the range and quality of social services for a designated population. In practice it is concerned with the needs and aims of classes of clients rather than with individual clients.

REQUIREMENTS FOR THE MSS DEGREE

Candidates for the MSS degree must complete a minimum of eighteen semester courses, including a practicum. Each student's program of study consists of a combination of required and elective courses. Each candidate also must submit an acceptable Master's Paper in an area of social work or social welfare.

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ELECTIVES

The student, in consultation with his advisor, is expected to elect additional courses during the second year of study. Electives are offered in this School and in the Graduate School of Arts and Sciences at Bryn Mawr. With permission of the Dean of the Graduate School of Social Work and Social Research students in the School may elect courses in the Graduate School of Arts and Sciences of the University of Pennsylvania under the reciprocal plan.

The reduction of required courses and the increase in electives is one principle which has guided the development of the curriculum. Another principle provides the opportunity for each student who demonstrates competence in a required course, including the practicum, to request a waiver of this required course in favor of an additional elective.

SPECIAL PART-TIME PROGRAM

It is possible for a small number of students for the Master's degree to extend the two-year program to three years. The 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 on a full-time basis.

Bryn Mawr does not enroll students except in degree programs.

The Degree of Doctor of Philosophy

The curriculum for the Ph.D. 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 of practice 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, and a Master's degree. Some experience in social work is desirable.

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

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

The following courses are required:

Social Statistics—one year (two semesters)
Research—one semester (either first or second semester)
Social and/or Behavioral Sciences—one year (two semesters)
History and Philosophy of Social Welfare I—one semester
Theory in Social Work Practice (Social Casework or Community Organization and Social Planning)—one semester

In general, fourteen semester seminars plus two courses focusing on the dissertation, are completed in preparation for the Ph.D. degree. Beyond the required seminars doctoral students may elect courses in this School, the Graduate School of Arts and Sciences at Bryn Mawr, or the Graduate School of Arts and Sciences at the University of Pennsylvania under the reciprocal plan.

The requirements for the Ph.D. degree in The Graduate School of Social Work and Social Research are:

1. An acceptable baccalaureate degree and undergraduate preparation satisfactory to the School.

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2. In general, a Master's degree from an accredited school of social work or social welfare and preparation satisfactory to the School. Exceptions may be made for a student who has completed a Master's degree and satisfactory preparation in an allied field and presents significant experience in social work or social welfare or for a student in the MSS program whose competence and qualifications as demonstrated in performance in this program promises that he or she can meet the demands of the Ph.D. program without first completing the MSS degree.
3. Completion of a minimum of two academic years in full-time residence in The Graduate School of Social Work and Social Research. For students who have completed the MSS degree at Bryn Mawr, the residence requirement is reduced to one year.
4. Satisfactory completion of a course of study consisting of a minimum of fourteen semester courses or seminars, including both those which are required and are elective. In addition, two tutorials in supervised work on the dissertation are required. These dissertation courses may be part of the residence requirement or in addition to it.
5. A reading knowledge of a modern foreign language approved by a written examination.
6. The acceptance of the student into candidacy for the Ph.D. degree.
7. Satisfactory completion of the Preliminary Examination consisting of written examinations in four areas and an oral examination by the candidate's Supervisory Committee. The oral examination is intended to test the candidate's general knowledge in his or her areas and fields rather than familiarity with particular courses.
8. The preparation of a dissertation judged to be worthy of publication. The dissertation must represent independent investigation and writing and must contain new material, results, or interpretations.
9. A satisfactory Final Oral Examination in the special area in which the dissertation has been written.
10. The publication of the dissertation in whole or in part. Micro-filming is accepted as a method of publication.

Resources for Graduate Work at Bryn Mawr

The Mariam Coffin Canaday Library, and the eight auxiliary libraries of Bryn Mawr College, including the Art and Archaeology collection in the M. Carey Thomas Library, contain over 360,000 books and regularly receive nearly 2000 periodicals as well as many scholarly series. The Library has generous hours of opening throughout the year. Books are readily accessible on open stacks and in study rooms: individual carrels are available for advanced students.

The John D. Gordan Reference Center provides a focus for reference books and services in the new library. In its card catalog, the main entry cards of the Haverford College Library join those of the Bryn Mawr Library, thus bringing approximately 625,000 entries into one file. In addition, the Library is a member of the Union Catalogue of Pennsylvania, which locates nearly 7,000,000 volumes in the Philadelphia area and throughout the state, including the libraries of the American Philosophical Society, the Library Company of Philadelphia, the Historical Society of Pennsylvania, the Academy of Natural Sciences, the Free Library of Philadelphia, the Franklin Institute, the College of Physicians, the Rosenbach Foundation, the University of Pennsylvania and Temple University.

Bryn Mawr and Haverford Colleges own jointly a third-generation computer (IBM 360, Model 44), having 128,000 bytes of core storage, along with approximately 32,000,000 bytes of random access disk storage and two magnetic tape drives. Access to this computer is available over a high-speed data line from a variety of remote terminals located in various places on the Bryn Mawr campus. The remote terminals include teletypes, a card reader, and one 600-line per minute printer, all driven by a small satellite computer.

Graduate Program for Master of Social Service

Candidates for the MSS degree must complete a minimum of eighteen semester courses or seminars, including a practicum. Each student's program of study consists of a combination of required and elective courses.

The basic first-year program is similar for all students except that the student selects either Social Casework or Community Organization as his or her principal focus in social work practice. The first-year required courses are:

- Social Casework or Community Organization (two semesters)
- Field Instruction—Coordinated with one of the above (two semesters)
- Personality Theory
- Social Theory
- Social Welfare Policy and Services
- Concepts in Research and Statistics

In addition, the student is expected to enroll in two electives during the first year. Thus, the usual first-year program is composed of ten semester courses.

The courses required in the second year are determined by the student's area of concentration in social work practice. The second-year options are: Community Development, Social Policy, Social Service Delivery, or Social Service Management, and Field Instruction coordinated with one of these choices. In addition, the student is expected to enroll in four electives, two each semester. Each candidate also must complete a Master's Paper in an area of social work or social welfare. Thus, the usual second-year program is comprised of eight semester courses and a non-credit Master's Paper.

Required Courses

Community Organization I

The course introduces various concepts of community organization practice. Relationships between the values and various roles of the practitioner, agency goals and structures, and the community are examined, utilizing the students' field experience as a focus. Historical and current trends in professional practice are considered.

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Community Organization II

Emphasis of the seminar is on analysis and understanding of the multiple roles and skills utilized in community organization practice. Consideration is given to the organizing process, to techniques of problem solving in different groups and settings, and to the choice of appropriate action strategies. The effect of current social issues on the professional's task is explored.

Community Development (first semester)

The nature of community development is considered from an historical and theoretical perspective, including major international trends. Comparison is made between rural community development and urban community development programs. Emphasis is on examination of some specific examples of contemporary community development projects.

Community Development (second semester)

In the second semester various forms of urban community development are analyzed in depth as models for social change. The social worker's role in encouraging leadership and community self-determination is related to the cultural, political, and economic experiences of disadvantaged groups and to current social movements. Attention is focused on the applicability of specific development strategies to American urban ghetto communities.

Social Casework I

The function of social casework in social work as related to the problems of individuals and primary groups. Theory and application of the technical processes of psychosocial study, diagnosis and casework services. Understanding the person and the dynamic relationship with his social and cultural environment. Attention to the conflicts and issues in social work practice.

Social Casework II

Continuation and deepening of understanding of the basic processes applied to casework practice in varying age groups, areas of problem and agency settings. Increasing use of students' case material. Study of the relationships among purpose, skill, social resources, social systems and human needs.

Seminar in Social Service Delivery (two semesters)

This seminar undertakes to familiarize students with theoretical and methodological issues in social casework and associated

methods of direct therapeutic intervention such as group therapy and family therapy. Alternate means of intervention and structuring services are considered.

Social Service Management (two semesters)

Social Service Management is one of the specialized areas of practice available to students in the second year of the program leading to the degree of Master of Social Service.

Social Service Management has as its central goal the improvement of the range, quality and delivery of social services for a designated population. It is concerned with the needs and aims of classes of clients. The approach used is goal oriented and the methods employed include a variety of kinds and levels of intervention, such as need-fulfilling activities, problem-solving activities and educational activities. Intervention may occur directly with individual clients, with groups, with organizations or indirectly through others.

Social Service Management prepares students for a range of responsibilities, such as direct delivery of services; analysis, evaluation and planning of programs; training and supervision of para-professional personnel; examination and evaluation of policies and procedures and deployment of personnel in relation to delivery of services. The focus is on the improvement of services both on the individual and organizational level.

Social Planning (two semesters)

This two-semester seminar examines: assumptions underlying planning in general; general principles of planning; interrelationships among auspices, funding, clientele, discipline of the planner, objectives and the planning process; and, distinctive criteria of social work planning in social welfare. Through concurrent field instruction and individual projects, students are expected to develop extensive substantive knowledge in at least one specific field, such as: aging, child welfare, corrections, education, environmental quality control, housing and renewal, income maintenance, mental health, mental retardation, family planning, public health, state and municipal government or transportation.

Field Instruction I and II

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 Social Casework I and II or Community Organization I and II. Requirements: two days per week, first semester; two and one-half days per week, second semester.

Field Instruction III and IV

Taken collaterally with Social Service Delivery, Social Service Management, Community Development, and Social Planning. Requirements: two or three days per week, first and second semesters.

Concepts in Research and Statistics

An introductory seminar designed to acquaint the student with the range of decisions and techniques involved in the conduct of social research. Special attention is directed to problems of control in research design and to the problems specific to research in the field of social work.

Personality Theory

Fundamental ideas in personality theory are presented which are considered to be especially pertinent to the various practices of social workers. Presentation leans heavily upon psychoanalytic theory, but students are encouraged to study in several theories of personality of their own choosing. Emphasis is upon general principles connected with the determination of the shape and content of an individual's personal-social functioning.

Social Theory

Starting with a general consideration of theory and its relevance to practice, one section for students entering in social casework moves to concepts of culture, sub-culture, the family and the kinship group, individual socialization, small groups, formal organization and social change and the relation of the theory to casework practice. Another section for students entering in Community Organization begins with systems theory and continues with concepts of culture, group processes, bureaucracy, and social movements and social change, stressing the relation to community organization practice.

Social Welfare Policy and Services I

The organization and growth of social welfare and social work as major social institutions is examined from historical and philosophical viewpoints. The evolution of social welfare attitudes and services in Great Britain and the United States is studied with attention given to the philosophical systems within which developments have taken place. Particular attention is given to the establishment of the current social welfare system in the United States and proposals to reform or change it. The role of social work within that system is described, and its future role discussed.

Electives

Administrative Organization of Human Services

A seminar concerned with the structure, operation, and change of human welfare agencies. Subjects discussed include: varieties and uses of organizational structure; policy formulation; decision-making; organizational change; management functions; the role of the staff in administration; principles of personnel management; social workers' unions; and, origins, flows and uses of resources and information.

Black Family Structure, the Black Community, and Social Work

The black family is examined in terms of its own history, and family interaction, not as a deviance from a norm. The course examines the history of the black family, family interaction on different socio-economic levels, and finally the black community as a reflection of the black family.

Child Caring Patterns

A survey and evaluation of child caring patterns as related to the social, economic, political and religious factors which influence them.

Community Mental Health

Historical and conceptual analysis of the community mental health movement. Examination of the social and political realities of community mental health planning. Consideration of principles and techniques of community psychiatry and primary prevention approaches to mental health problems. Subjects discussed include: the nature of mental health and illness; conceptual and organizational models for service delivery; manpower development; innovative approaches to service delivery; community participation and/or control issues.

Current Issues in Corrections: Prison, Probation, Parole

Current issues and practices in the delivery of human services within adult probation, parole, institutional and ancillary agencies will be examined against society's twin aims of rehabilitation and self-protection. Visits to selected institutions and agencies in the correctional spectrum for direct exposure to such settings and discussions with their staffs may be planned.

Drugs and Drug Abuse

A general examination of the issues inherent in drugs and drug abuse, inclusive of classifications of drugs and their effects, causa-

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tion theories, treatment approaches, legislation, enforcement, public education, prevention and the role of social work in all this. Current practices in treatment will be examined; treatment agencies may be visited for observation and staff discussion.

Family Therapy

The course includes (a) purpose and characteristics of family therapy in social work; (b) dynamics, health, and maladaptation of family relationships; (c) basic principles and differential techniques of family therapy. Small group concepts are utilized.

Gerontology I

Delineation of the origins and boundaries of gerontology. Cross-cultural comparison of roles and role-expectations of the aging. Physiological and psychological changes associated with aging. Reinterpretation of human productivity in the older years. Demographic characteristics of the aged population. The elderly as a political bloc.

Findings and questions of research in each of these areas are emphasized.

Gerontology II

Significant similarities and differences of the elderly, as compared with other age groups, are examined for their significance in the planning and delivery of human services, broadly defined. Guest gerontologists in the fields of housing, law, medicine, nursing-home administration, social action, and research pose and discuss current issues and trends in their respective fields.

Group Therapy

This seminar is designed to give the student a foundation in the field of group psychotherapy. It is structured so that the student participates in group interaction similar to that occurring in therapy groups and correlates this experience with group theory. Videotapes of clinical groups are utilized as is video playback of a seminar meeting.

Human Behavior: Childhood

Childhood is examined from a socio-psychological perspective, integrating a variety of theoretical approaches with related research results.

Human Behavior: Adolescence

Adolescence is examined from a socio-psychological perspective, integrating a variety of theoretical approaches with related research results.

Law as an Instrument of Social Change

This course is devoted to understanding how legal institutions can be better used to help solve major social problems of the day. Illustrative cases to be drawn from recent efforts to make public and private organizations more responsive to such problems as alleviating poverty, racial discrimination, consumer fraud, fair treatment of both accused and the general populace in crime prevention, etc. Students are expected to draw upon their particular agency placements in choosing topics for class presentations and papers.

Mental Retardation and Related Social Disabilities

Characteristics of a chronic disability, such as mental retardation, and the implications for the person and his family and the community. The design of programs of intervention to minimize social disability.

The Ombudsman and Other Client Advocacy Systems

A review of institutional arrangements for communication, redress, and advocacy for citizens in their dealings with various levels of government. Development and application of a classification scheme for such organizations and consideration of such models as the classical ombudsman and the decentralized agency. Comparative material from various American schemes and such foreign experience as that in Scandinavia, Great Britain and New Zealand.

Organizational Process and Social Service

The seminar will explore organizational patterns and practices affecting provision of social services. Institutions and programs will be examined in relation to changing intra- and inter-organizational arrangements, modifying the relationship of the institution with its environment, and differential use of personnel.

Personality and Comparative Politics

This seminar is intended to explore selected aspects of personality theory relevant to politics in the context of comparative political cultures. Ways in which personality theory and political theory interrelate will be examined. Offered jointly to students in the Department of Political Science of the Graduate School of Arts and Sciences and students in the School of Social Work and Social Research.

Political and Governmental Processes

Based on the assumption that political science is the study of making authoritative decisions about the allocation of values for a society or social group, this course explores concepts and issues that the Community Organization student must deal with in working with groups that seek to influence decision-making. An interdisciplinary approach is provided with integration of material from Sociology, Social Psychology and Economics as well as Political Science in the readings and discussions. The students are provided the opportunity to participate in structuring the content and procedure of the seminar.

Population Dynamics and Planned Parenthood

A review of present theories concerning human sexuality and the effects of increasing population on the quality of human life. An exploration through readings and field trips of the current programs which attempt to control human fertility along with an examination of religious, ethical, cultural, medical and legal issues which limit the availability or usefulness of existing programs.

Poverty, Inequality and Social Policy

The effects of poverty on personal, familial and political processes. Problems in the design of human service delivery systems to overcome inequities.

Psychopathology

This course covers the symptomatic pictures seen in adults in the major clinical diagnoses of the psychoses, psychosomatic disorders, character disorders, addictions and the neuroses. There will be examination of the genetic, dynamic and structural aspects of these illnesses, with discussion of implications for prevention and treatment.

Race, Poverty and Human Development

Certain developmental personality theories are examined in relation to the effect of various racial and socio-economic environments on human development. The course has a dual orientation in which the theoretical material is applied to the real world. Current periodical, biographical, fictional readings and visitors are used to present reality.

Research Seminars

Each semester a seminar in social research may be offered for students who have completed the initial course, *Concepts in Re-*

search and Statistics. These seminars provide an opportunity for a small group of interested students to participate in greater detail in a study of some aspect of social work.

Selected Concepts in Personality Theory

This seminar is built upon concepts that are thought to be fundamental to clinical practice and social action at the same time. About half the semester is devoted to critical analysis of recent interpretations of such concepts developed by the instructor.

Social Welfare Policy and Services II

The nature and scope of contemporary social problems such as poverty, illness, old age, delinquency, and urban deterioration are analyzed. Various proposals and approaches to meeting these problems are considered. Programs developed in other countries receive particular attention.

Special Problems of Women in the Profession

Student-Faculty Seminar which will consider issues concerned with women in the professions, historically and cross-culturally, including the contemporary Women's Liberation Movement. Special action will be given to women in social work. Specific content and structure to be developed by the group.

Staff Supervision in Social Service

This seminar is designed for those Master's students who will be expected to assume supervisory and/or staff development responsibilities very soon after graduation. The seminar takes its direction from the function of supervision which is seen as primarily two-fold: 1) the provision of more effective delivery of service to the agency's consumers; and 2) the education and professional development of agency staff.

Master's Paper

A Master's Paper is required of all candidates for the M.S.S. degree. This may be an individual or group project and may be written independently or in connection with a particular course or tutorial in the first semester of the second year.

Practicum

Field instruction in relation to a practicum is an integral part of the curriculum for the Master of Social Service degree. A placement is arranged for each student: in the first year in Social Casework

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or Community Organization; in the second year in Social Service Delivery, Social Service Management, Community Development or Social Planning. The purpose of the practicum is to provide the opportunity for the student to apply the knowledge gained in class in order to deepen this knowledge and develop skill in its use. It is planned jointly by the agency and the School in such a way as to give content, sequence and progression in learning. Field instruction runs concurrently with the academic program in order to maximize opportunity for integration of the content of the two. Each student's field instruction is arranged in a different agency for each year of the practicum.

In a typical program, the practicum for first-year students consists of two days per week in the first semester and two and one-half days per week in the second semester; for second-year students, it consists of two or three days per week for each of the two semesters. Individual arrangements may occasionally be made on the basis of agency and student needs.

Most 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 who is a member of the faculty of Social Work and Social Research. The practicum for MSS students has been provided in field placements concerned with, among others:

- Child and Family Welfare
- Community Mental Health
- Community Welfare Research
- Corrections
- Gerontology
- Intergroup Relations
- Medical and Psychiatric Social Work
- Mental Retardation
- Neighborhood Organization
- School Social Work
- Social Planning
- Social Rehabilitation
- Urban Renewal

Field Instruction Settings

Students were placed during 1970-71 in the following agencies and organizations:

Association for Jewish Children

Board of Probation and Parole, Commonwealth of Pennsylvania

Center for Non-Violent Conflict Resolution, Haverford College

Child Care Service of Delaware County

Children's Aid Society of Pennsylvania, Philadelphia

Child Study Institute of Bryn Mawr College

Community Legal Services, Inc., Philadelphia

Compcare, Inc.

Court of Common Pleas, Philadelphia

Dauphin County Child Care Services

Defender Association, Philadelphia

Delaware County Board of Assistance

Department of Public Health, City of Philadelphia

Devereux Schools

Division of Corrections and Parole, State of New Jersey

Eastern Pennsylvania Psychiatric Institute

Family Service of Delaware County

Family Service of the Main Line Neighborhood

Family Service of Montgomery County

Family Service of Philadelphia

Hahnemann Medical College and Hospital

Health and Welfare Council Inc., Delaware County District

Health and Welfare Council Inc., Philadelphia

Horizon House

Irving Schwartz Institute for Children and Youth

(The) Lighthouse

Lankenau Hospital

Mental Health Association of Southeastern Pennsylvania

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Montgomery County Mental Health Clinic, Inc.

Montgomery County Public Schools

Norristown State Hospital, Commonwealth of Pennsylvania

Office of City Councilmen:

Wilmington—James H. Sills, Jr.

Philadelphia—David Cohen, Esq., and Thacher Longstreth

Office of Economic Opportunity, U. S. Government

Pennsylvania Hospital

(The) Philadelphia Forum of Mental Health/Mental Retardation
Centers

Philadelphia General Hospital

Saint Christopher's Hospital for Children

Sleighton Farms

Southern Home for Children

Stephen Smith Home for the Aged

Thomas Jefferson University Medical Center

United States Department of Health, Education, and Welfare, So-
cial & Rehabilitation Service, Region III

(The) Urban League of Philadelphia

Veterans Administration Hospital, U. S. Government

Wharton Center

Wynnefield Residents Association

Program for the Doctor of Philosophy

Consistent with the School's philosophy with respect to advanced study, the program is planned to broaden the student's knowledge of social welfare in general and, through intensive study and research, to deepen his knowledge in one area in particular. The curriculum includes seminars, tutorials, and independent study in the following areas:

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

Candidates who hold the M.S.S. degree from The Graduate School of Social Work and Social Research of Bryn Mawr College must complete one year of full-time doctoral study at Bryn Mawr. Candidates who do not hold the M.S.S. from The Graduate School of Social Work and Social Research at Bryn Mawr College must complete two years of full-time doctoral study at Bryn Mawr. The residence requirements may be relaxed in individual cases.

In general, fourteen semester courses, not counting the dissertation, must be completed in preparation for the degree. In addition, the candidate is expected to complete at least two semester courses devoted to dissertation research.

The following courses are required:

- Social Statistics—one year (two semesters)
- Research—one semester (either first or second semester)
- Social and/or Behavioral Sciences—one year (two semesters)
- History and Philosophy of Social Welfare I—one semester
- Theory in Social Work Practice (Social Casework or Community Organization and Social Planning) one semester

Beyond the required seminars doctoral students may elect courses in this School, the Graduate School of Arts and Sciences at Bryn Mawr, or the Graduate School of Arts and Sciences at the University of Pennsylvania under the reciprocal plan.

Social Welfare

History and Philosophy of Social Welfare I

In this course social welfare is examined as a historical institution. The development of the succession of philosophical systems within which this institution evolved is considered and the influ-

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ence upon both philosophy and welfare of social and economic changes is studied. Stress is placed upon historical and contemporary literature which is examined for the light it casts upon our field of study.

History and Philosophy of Social Welfare II

From study through the research of others this course proceeds to the use of primary and secondary materials as the student learns some of the tools of historical research and their value in assessing developments in social welfare and in social work.

Introduction to Social Policy

This course will examine different conceptions of social policy but will give special attention to issues of distribution and redistribution. These issues will be examined in a number of different fields, such as: income transfers, medical care, social services, manpower training, education and housing. After reviewing each of these sectors, an attempt at an overall assessment of the relationship between social policy and income distribution will be made based on empirical studies in the United States and selected advanced industrial societies in Western Europe. In addition to a review of issues of distribution, attention will be given to problems of citizen participation, coordination, evaluation and social change. The course will conclude with an interpretation of the limits and the future of social policy.

Personality Issues in Social Policies and Programs

A seminar concerned with the cluster of issues which surround the relationship between personality and policy: the assumptions about personality functioning in social policies; the impact of public social policy on personality; the impact of personality factors on policies; personalities in policy-making positions; personality theories as origins for the development of social policy; social equality and personality.

Social Service Delivery Systems

Drawing on literature from a number of European countries and the United States a systematic reappraisal of the personal social services is undertaken. The basic content of the course is devoted to a review of the following questions: What are social services? What are their multiple aims and are these aims in conflict? How should these services, with vague boundaries and uncertain aims, be administered? How should they be financed? How effective are they? What priority should they enjoy within the broader system

of social welfare services? What place does social work play within these services? What images for the future of the social services can be projected? This seminar concludes with an appraisal of future trends.

Social and Behavioral Sciences

Advanced Psychoanalytic Theory

Examination is made of psychoanalysis as a personality theory. Special attention is paid to metapsychology in psychoanalytic theory and to psychoanalysis as social theory. Intensive analysis of basic writings by Freud and his collaborators forms the focus of the seminar.

Formal Organizations

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.

Personality Theory

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.

Social Change

This seminar engages in an active search for an adequate abstract model of social change which would provide a guide for action in social policy formation. Special attention is directed to modern systems theory. Major social theories are examined for relevant contributions to an understanding of social change; contemporary patterns of change in society are documented; and limitations in attempts to guide change at different levels of social organization are noted.

Social Demography

Demographic characteristics of the United States and appropriate techniques of 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.

Theory in Social Work Practice

Advanced Casework (one or two semesters)

This course is designed to examine the scientific base of Social Casework. Assumptions are viewed against current knowledge in person, biological and social theories; gaps in knowledge; and building of theory. There also is discussion of implications for practice of theoretical advances, the influence of values in planning for social welfare.

Advanced Planning

This seminar examines the origins, trends and issues of social planning with particular emphasis on social planning by social workers. Current literature is critically reviewed. Efforts are made to develop a general theory of planning as a basis for research and practice.

Social Administration

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. (Not offered in 1971-72.)

Theory in Community Organization

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; inter-agency program planning, coordination and financing; and more comprehensive social planning in concert with physical and economic planning. (Not offered in 1971-72.)

Social Research

Social Statistics I and II

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

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.

Current Research in Social Work and Social Welfare

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

Tutorial in Research

Students may arrange with members of the faculty to undertake research in an area of their interest under faculty supervision.

Other Courses

Courses in the Bryn Mawr Graduate School of Arts and Sciences may be elected as part of the student's program with the permission of the Dean of the Graduate School of Social Work and Social Research and the Instructor of the course to be taken.

Graduate courses in the Graduate School of Arts and Sciences of the University of Pennsylvania are also available for doctoral students of Bryn Mawr College. For information regarding the reciprocal arrangement with the University, see the section under Admissions.

Non-Credit Seminar

Supervision in Social Work

This course will relate basic learning theory to learning in social work. Emphasis will be placed on identifying learning patterns of the student or staff supervisor and the appropriate use of the supervisory method and selection of education experience related to varying patterns.

This seminar is given on an audit basis for those with limited field instruction or supervisory experience.

Fees

Application: \$15 (non-refundable)

Tuition*

Full-time students: \$2100 a year. (1971-72 only)

Part-time students: \$350 a semester for each course or seminar.

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

Students enrolled in the practicum are charged a fee of \$20 a semester. In addition, students are required to meet travelling and other expenses incurred in relation to the practicum.

Continuing enrollment for Ph.D. candidates: Candidates who have completed the required academic courses including two tutorials in dissertation research and who are continuing independent work on their dissertations either in the vicinity of Bryn Mawr or in other places must retain their enrollment and degree candidacy by registering for one or more courses each semester or by paying a continuing enrollment fee of \$50 each semester. Such students may apply to the Dean of The Graduate School of Social Work and Social Research for a leave of absence for one or more semesters. No fee is required while on leave of absence.

Payment of Fees

No reduction or refund of the tuition fee will be made on account of absence, illness or withdrawal after classes have begun, dismissal or for any other reason, except involuntary service in the armed forces of the United States.

Students whose fees are not paid before October 1 in the first semester and before February 15 in the second semester will not be permitted to continue in residence or to attend classes. Degrees will not be awarded to any student owing money to the College, Book Shop, or other college facility.

* Tuition for full-time and part-time programs may be expected to increase in 1972-73.

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Summary of Expenses for the Academic Year

Regular

Tuition Fee	\$2100
Residence in graduate student housing	1350

Contingent

Application Fee	\$ 15
Continuing Enrollment Fee	100
Dispensary Fee	25
Health Insurance (United States citizens)	30
Health Insurance (foreign students)	45
Graduation Fee for all Graduate Degrees	25
Charge for Microfilming Ph.D. Dissertation	30
Late Registration Fee	10
Materials Fee	10
Practicum Fee	40

History

The Graduate School of Social Work and Social Research was opened at Bryn Mawr College in the fall of 1915 as the Carola Woerishoffer Graduate Department of Social Economy and Social Research. It was established as a tribute to Carola Woerishoffer, a Bryn Mawr graduate of the class of 1907, and was the first graduate program of social work education to be offered by a college or university. Subsequently the name was modified from Social Economy and Social Research to Social Work and Social Research. In August 1970, it became one of the three Schools which comprise Bryn Mawr College.

The School 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 "field work" in a social service institution or 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. Its plan of "field work" and its inclusion of work in labor and industrial relations and in community organization made it somewhat different from the other early schools of social work. Under its first director, Dr. Susan M. Kingsbury, four fields of study were offered: Community Organization, Social Casework, Industrial Relations, and Social and Industrial Investigation. Included among the organizations offering field work for students in these early days were: The Family Society of Philadelphia, The Children's Aid Society, 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 Social Settlements.

In 1919, Bryn Mawr 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 responded to these changes in a variety of ways. At Bryn Mawr, preparation for social casework was expanded and additional courses in public welfare and social legislation were offered. However, the emphasis on research and social investigation which was central to the early curriculum of the School continued.

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Bryn Mawr had the first doctoral program in social work education and awarded the first Ph.D. in 1920. The doctoral program at the School of Social Service Administration at the University of Chicago followed later in the 1920's. Today twenty-five schools in the United States and Canada offer doctoral programs.

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

The Graduate School of Social Work and Social Research currently has approximately one hundred thirty full-time students. A number of factors have contributed to this expansion: the acquisition in 1958 of a separate building for the exclusive use of the School; increased Federal support for education for social work, especially scholarship aid in the form of traineeships; and the continuing support of social welfare agencies and organizations for a practicum.

There are more than seventy-five schools of social work accredited by the Council on Social Work Education in the United States and Canada, 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 School at its founding has been proven by experience to have been remarkably correct.

The School now has approximately seven hundred living graduates; more than 650 M.S.S. degrees have been awarded and over 40 Ph.D.'s. At the time of its founding, the School admitted only women; since the late 1930's both men and women have been admitted and during the last ten years men have constituted an increasing percentage of the graduates.

Graduates of the School are located in all regions of the United States and many foreign countries. Their present positions range within a wide spectrum of governmental and voluntary organizations and agencies. They are widely represented in family service programs, psychiatric services, child welfare, housing and urban planning, community health, mental health and mental retardation programs, public welfare administration, and social policy development and research. Approximately half are executives, supervisors or administrators, or consultants. Recipients of the doctoral degree are chiefly in teaching and research positions. Over the course of its more than fifty years, the School's graduates have contributed substantially to leadership in both public and voluntary social welfare.

Graduate Student Housing

Housing on campus is provided for about sixty graduate students in the Graduate Residence Center and Batten House. There is a separate bedroom for each student with the exception of a few rooms in Batten House which can accommodate married couples. No other housing on campus is available for married students.

Rooms are furnished except for rugs and curtains. Blankets are provided but students should bring towels and bed linen. (Local rental services will supply sheets and pillowcases for a modest fee. Arrangements can be made on arrival.) Because of college fire regulations, smoking is not permitted in the bedrooms. There are smokers on certain floors. The dining room, available to all resident students, is located in the Center.

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 to the Office of the Graduate School of Arts and Sciences with a deposit of ten dollars. The deposit will be deducted from the residence fee; it will be refunded only if the student cannot be accommodated or has been called into service in the armed forces of the United States.

A student who has reserved a room will be held responsible for the residence charge unless notice of withdrawal is sent in writing to the Dean of the Graduate School of Arts and Sciences before August 15, or unless he is drafted for military service.

The regular charge for residence (room, board and health service) for graduate students is \$1350 a year*, payable one half early in the first semester and the other half early in the second. Residence on campus is provided from the opening of College in the fall until Commencement Day; but meals are not served, and health service is not available during Christmas and spring vacations. Baggage will be accepted at the College after August 30. It should be sent prepaid, addressed to the proper residence hall, and marked with the owner's name.

* This may increase in 1972-73.

Health

Medical Services

The College maintains an 18-bed infirmary with a staff of physicians and nurses. The Infirmary is open when College is in session. The college physicians may be consulted without charge by students residing in campus housing and by students living off campus 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 residence charge paid by graduate students living in campus housing entitles them 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 the 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 \$15.00 for each day in the Infirmary. In case of contagious disease, if special nursing is necessary, the student must meet the expense.

Graduate students who do not live in campus housing may pay a \$25.00 fee which entitles them to dispensary care and consultation with the college physicians. The fee is not billed automatically and is not covered by scholarship or other grants. The dispensary fee is to be paid in the Comptroller's Office where a dispensary card is issued. Non-resident students are not given bed care in the Infirmary except under exceptional conditions at a charge of \$15.00 per day.

The College maintains a counseling and diagnostic service staffed by a social worker, psychologist and three psychiatrists. They are at the Infirmary on a part-time basis. All students eligible for dispensary care may use this service. The counseling service offers confidential consultation and discussion of personal and emotional problems. Definitive and long range psychotherapy is not available. A charge is made for visits in excess of five.

Medical Requirements

All graduate students, after admission, must file a medical history and health evaluation form with the Infirmary. There are no exceptions to this rule.

In addition to a statement of health, signed by a physician, the following are required: small pox vaccination within 3 years of admission; current tetanus and polio immunizations; proof of freedom from active tuberculosis based on either a negative skin test to tuberculosis, or in the presence of a positive test, a normal chest x-ray within 6 months of admission.

Insurance

All graduate students of Bryn Mawr College are entitled to subscribe to the Student's Health Care Plan, which provides for a substantial proportion of hospital care and medical fees. The premium for this insurance is \$30.00 for a full year starting in September. Students should apply to the Comptroller of the College.

Foreign Students. The College also makes available a policy which provides fuller coverage of medical, surgical, and hospital costs. This insurance is required of all 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 \$45.00 for a twelve-month period, starting in September.

Student and Alumni Associations

Student Association of the Graduate School of Social Work and Social Research

All students in The Graduate School of Social Work and Social Research are eligible for membership in the Student Association. The Student Association and Faculty work together to promote the objectives of the School.

Alumni Association of the Graduate School of Social Work and Social Research

The Alumni Association of the School was organized to further the interests of the School and its alumni. This Association is part of the larger Alumnae Association of Bryn Mawr College. The Steering Committee of the Alumni Association is comprised of the following:

Mary Q. Frantz	J. Douglas MacBride
William Krum	Lee B. Roach
John Loeb	Alexander Scott
Ruth W. Mayden	Malin Van Antwerp

Recruitment of Minority Group Students

A Student-Faculty-Alumni Committee is active in recruitment of interested and qualified minority group students.

The Graduate School of Social Work and Social Research is especially interested in having minority group students explore graduate social work education at Bryn Mawr. Inquiries may be directed to the Office of Admissions, 815 New Gulph Road, Bryn Mawr 19010.

College Facilities

Student-Faculty Lounge

There is a Student-Faculty Lounge at the Graduate School of Social Work and Social Research for the use of Social Work faculty and students.

Parking

Parking for Social Work students is available in the Erdman-College Inn parking lot with entrance on Morris Avenue. No parking by students is permitted at other places on the campus. All parking spaces at 815 New Gulph Road (the Graduate School of Social Work and Social Research) are assigned from 8 a.m. to 5 p.m.

Mailboxes

There are student mailboxes at the Graduate School of Social Work and Social Research. Mail addressed to students in the School should include 815 New Gulph Road, Bryn Mawr, Pennsylvania 19010.

Wyndham

Wyndham is the College Alumnae House with the headquarters of the Bryn Mawr College Alumnae Association. Graduate students are invited to use the dining and other facilities.

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Mr Price
Mr Stokes
Mr Terrell
Mr Wofford
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- Elizabeth Read Foster PH D (Yale University) *Dean of the Graduate School of Arts and Sciences*
- Mary Patterson McPherson PH D (Bryn Mawr College) *Dean of the Undergraduate College*
- Mabel L. Lang PH D (Bryn Mawr College) *Secretary of the General Faculty*
- Jane Collier Kronick PH D (Yale University) *Secretary of the Faculty of The Graduate School of Social Work and Social Research*
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- Julie E. Painter A B (Bryn Mawr College) *Administrator of Records*
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BRYN MAWR COLLEGE

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Social Work and Social Research

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- Merle Broberg PH D (The American University) *Assistant Dean*
- Jane C. Kronick PH D (Yale University) *Secretary of the Faculty*
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Standing Committees of the Faculty
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Mr Vosburgh 1971-74

Committee on Policy

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Mrs Stallfort 1970-72
Mr Lichtenberg 1970-73
Mrs Norton 1971-74

*Committee on Admissions and
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*Committee on Evaluation of
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Master's Students*

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Miss Beckett 1971-72
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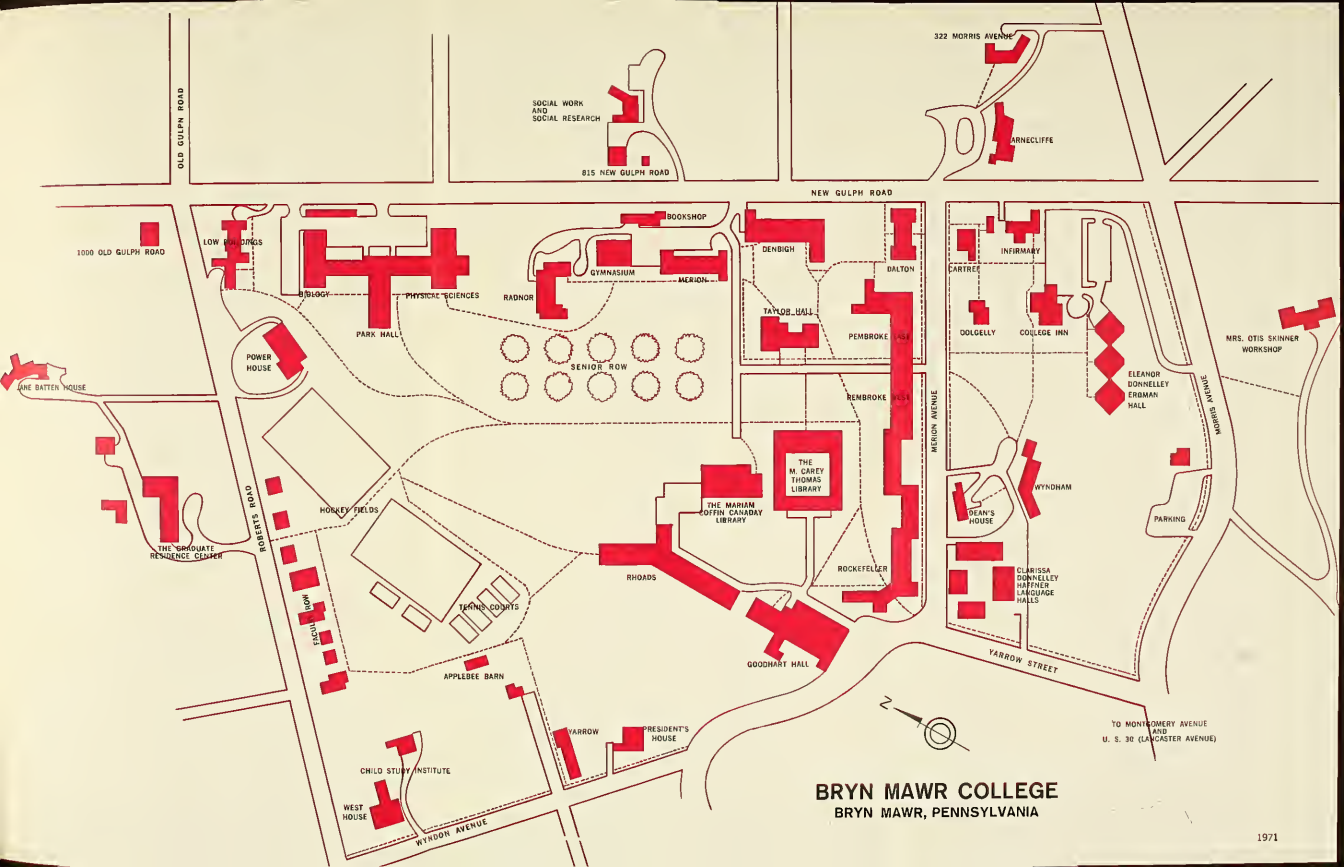
*Committee on Field Instruc-
tion and Placement*

Mrs Hollingsworth
Chairman
Mr Broberg *Vice Chairman*
Dean Ross *ex officio*
Mrs Stallfort 1970-72
Miss Lewis 1971-73

Doctoral Committee

Mr Lichtenberg *Chairman*
Dean Ross *ex officio*
Mr Broberg
Miss Haring
Mrs Kronick
Mrs Mueller
Mrs Norton
Mr Speizman
Mr Vosburgh
Mrs Woods
Mr Zweig
Miss Zybon

*All students enrolled in the
Doctoral Program*



BRYN MAWR COLLEGE
BRYN MAWR, PENNSYLVANIA

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 30th Street Station in Philadelphia and from there the Paoli Local to Bryn Mawr, or take a taxi or the Bennett Limousine Service 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 exit number 36, Pa. #320, Gulph Mills, which is 3.5 miles east of the toll gate; continue into 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 Penn Central 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

The Graduate School
of Arts & Sciences

1971-72

Bryn Mawr College Calendar
The Graduate School
of Arts and Sciences

Issue for the Session of 1971-72

July 1971 *Volume LXIV Number 2*

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Graduate Work at Bryn Mawr

Graduate education at Bryn Mawr is built upon a close working relationship between students and mature scholars. Each student begins training on the level appropriate for his individual experience, and pursues a flexible program designed for his special requirements. Small seminars provide an opportunity to share research projects and to work under the direct supervision of the faculty.

Founded in 1885, the Bryn Mawr Graduate School was the first graduate school for women in the United States. Since 1931 both men and women have been admitted; but only after 1965 were adequate funds obtained to offer support for men comparable to that offered to women. Always small in relation to other graduate schools, Bryn Mawr has expanded gradually in response to the need for men and women well prepared for teaching and research. In 1970, the Graduate School of Arts and Sciences and the Graduate School of Social Work and Social Research were organized as two distinct schools. Today, the student enrollment in the Graduate School of Arts and Sciences is about four hundred and fifty.

Graduate work leading to the degrees of Master of Arts and Doctor of Philosophy is available in:

<i>Anthropology</i>	<i>History of Art</i>
<i>Biochemistry</i>	<i>Latin</i>
<i>Biology</i>	<i>Mathematics</i>
<i>Chemistry</i>	<i>Mediaeval Studies</i>
<i>Classical and Near Eastern Archaeology</i>	<i>Music</i>
<i>Economics</i>	<i>Philosophy</i>
<i>Education and Child Development</i>	<i>Physics</i>
<i>English</i>	<i>Political Science</i>
<i>French</i>	<i>Psychology</i>
<i>Geology</i>	<i>Russian</i>
<i>German</i>	<i>Sociology</i>
<i>Greek</i>	<i>Spanish</i>
<i>History</i>	
<i>History and Philosophy of Science</i>	

Work leading to the degrees of Master of Social Service and Doctor of Philosophy is available in the Graduate School of Social Work and Social Research.

College Calendar 1971-72

The Graduate School of Arts and Sciences

First Semester

1971

- Aug. 31 *Final date for filing completed applications for admission.*
- Sept. 1 *Applications for loans due.*
- Sept. 2, 3, 7, 8, 9, 10 *Registration Period for Semester I.*
- Sept. 7 *Graduate residences open.*
- Sept. 9 *Work of the 87th academic year begins at 9 a.m.*
- Oct. 16 *Italian, Spanish, Russian, Latin, Statistics examinations for M.A. and Ph.D. candidates.*
- Oct. 22 *Fall vacation begins after last seminar.*
- Oct. 27 *Fall vacation ends at 9 a.m.*
- Oct. 30 *French examinations for M.A. and Ph.D. candidates.*
- Nov. 6 *German examinations for M.A. and Ph.D. candidates.*
- Nov. 24 *Thanksgiving holiday begins after last seminar.*
- Nov. 29 *Thanksgiving holiday ends at 9 a.m.*
- Dec. 14-22 *Registration Period for Semester II.*
- Dec. 20 *Final date for filing completed applications for admission for Semester II.*
- Dec. 22 *Winter vacation begins.*

Second Semester

1972

- Jan. 17 *Work of the Second Semester begins at 9 a.m.*
- Jan. 24 *Applications for M.A. candidacy due in the Office of the Graduate School of Arts and Sciences.*
- Jan. 25 *Final date for filing completed applications for scholarships (foreign students).*
- Feb. 1 *Final date for filing completed applications for fellowships, scholarships, and grants (citizens of the United States and Canada).*
- Feb. 19 *Italian, Spanish, Russian, Latin, Statistics examinations for M.A. and Ph.D. candidates.*
- Feb. 26 *French examinations for M.A. and Ph.D. candidates.*
- Mar. 4 *German examinations for M.A. and Ph.D. candidates.*
- Mar. 10 *Spring vacation begins after last seminar.*
- Mar. 20 *Spring vacation ends at 9 a.m.*
- Mar. 29 *Ph.D. dissertations in all fields except natural sciences and mathematics must be submitted to the Office of the Graduate School of Arts and Sciences.*
- Apr. 1 *Applications for loans due.*
- Apr. 15 *M.A. papers due for candidates away from Bryn Mawr.*
- Apr. 19 *Ph.D. dissertations in the natural sciences and mathematics must be submitted to the Office of the Graduate School of Arts and Sciences.*
- Apr. 28 *Last day of seminars.*
- May 15 *Conferring of degrees and close of 87th academic year. Graduate residences close.*

Admission to the Graduate School of Arts and Sciences

Requirements

Students must be graduates of colleges or universities of acknowledged standing. For special requirements set by individual departments, see the departmental listings beginning on page 16.

Procedure

The applicant should write to the Dean of the Graduate School of Arts and Sciences, Bryn Mawr College, Bryn Mawr, Pennsylvania 19010, for application forms and indicate the field of special interest. The application must be supported by official transcripts of the student's complete academic record and by letters from the dean and two or more professors with whom he has done his major work. No application can be considered until all the necessary documents have been received. Students are accepted for either full-time or part-time work. For citizens of the United States and Canada and foreign students living in the United States, there is an application fee of \$15.00, which is not refundable.

Graduate Record Examinations and Graduate School Foreign Language Tests

Applicants are advised to take the Graduate Record Examination Aptitude Test as well as the Advanced Test in their fields of special interest. In certain departments these examinations are required, as indicated in the departmental listings. Inquiries concerning the Graduate Record Examination should be addressed to Graduate Record Examination, Educational Testing Service, Box 955, Princeton, New Jersey 08540 or to the Graduate Record Examination, Educational Testing Service, 1947 Center Street, Berkeley, California 94704.

Satisfactory scores in the Graduate School Foreign Language Test are accepted by some departments in fulfillment of the language requirement for higher degrees. Entering students should consult the departmental listings and make their own arrangements to take these tests by writing to the Educational Testing Service. Tests are given on July 24 and October 9, 1971; February 5, April 15, and July 22, 1972.

Dates

1. *Citizens of the United States and Canada:*

Applications for admission must be complete by August 31. Graduate Record Examination tests: October 23, December 11, 1971; January 15, February 26, April 22, and June 17, 1972.

2. *Foreign Applicants:*

The closing date for admission is August 31. Applications must include the scores of the Test of English as a Foreign Language (TOEFL), the Examination of the English Language Institute of the University of Michigan, or another approved language test. Since applications from students who desire financial aid must be complete by January 25, applicants must arrange to take language tests well before that date. Candidates offering scores of the TOEFL must register for it in September and take the test not later than October of the year preceding the year in which they wish to enter.

For information concerning the TOEFL write to: TOEFL, Educational Testing Service, Princeton, New Jersey 08540. Tests are given on October 25, 1971; January 10, March 27, and June 5, 1972.

Students in departments requiring the Graduate Record Examination should also arrange to take these tests not later than October.

3. *Applicants for financial aid:*

Students wishing to apply for fellowships, scholarships, assistantships, tuition grants or other forms of financial aid must present complete applications by the following dates:

For United States and Canadian citizens:

Applicants for fellowships, scholarships, assistantships, full-time and part-time tuition grants February 1

Applicants for loans April 1 and September 1

For Foreign Citizens:

Applicants for scholarships January 25

Applicants for loans April 1 and September 1

Admission to Graduate Seminars and Courses

Admission to graduate seminars and courses is under the jurisdiction of the various departments. Students whose preparation is inadequate may be required to complete appropriate undergraduate courses before being enrolled in a full graduate program.

Registration

All graduate students, after consultation with the chairmen of their departments, must register at the Office of the Graduate School of Arts and Sciences each semester during the registration period listed in the College Calendar. Changes in registration require the approval of the department chairman and the Dean.

Personal registration is an important obligation of the graduate student. Those who fail to register within one week of the stated period will be charged a late registration fee of \$10.00.

Students wishing certification to outside agencies must complete a form to be signed also by the department chairman and deposited in the Office of the Graduate School of Arts and Sciences.

Degree Candidacy

Students become candidates for advanced degrees only after they have met departmental requirements and made formal application which has been approved by the Council of the Graduate School of Arts and Sciences.

Resources for Graduate Work at Bryn Mawr

The newly-opened Mariam Coffin Canaday Library, and the nine auxiliary libraries of Bryn Mawr College, including the Art and Archaeology collection in the M. Carey Thomas Library, contain over 360,000 books and regularly receive nearly 2000 periodicals as well as many scholarly series. The Library has generous hours of opening throughout the year. Books are readily accessible on open stacks and in study rooms: individual carrels are available for advanced students.

The John D. Gordan Reference Center provides a focus for reference books and services in the new library. In its card catalog, the main entry cards of the Haverford College Library join those of the Bryn Mawr Library, thus bringing approximately 625,000 entries into one file. In addition, the Library is a member of the Union Catalogue of Pennsylvania, which locates nearly 7,000,000 volumes in the Philadelphia area and throughout the state, including the libraries of the American Philosophical Society, the Library Company of Philadelphia, the Historical Society of Pennsylvania, the Academy of Natural Sciences, the Free Library of Philadelphia, the Franklin Institute, the College of Physicians, the Rosenbach Foundation, the University of Pennsylvania and Temple University.

The Rare Book Room houses the Marjorie Walter Goodhart Mediaeval Library of incunabula and mediaeval manuscripts. Important and extensive collections of early material on Latin America, Africa and Asia are to be found in the Dillingham, McBride and Plass collections. The recently acquired Castle collection expands the opportunities for the study of the graphic book arts. In addition to these special collections are numerous other rare books and manuscripts.

Bryn Mawr has a study collection of archaeological and ethnological materials which are used for research by graduate and undergraduate students. The Ella Riegel Museum of Classical Archaeology contains examples of the Greek and Roman arts, especially vases, and a small group of pre-classical antiquities. It includes the classical Greek coins assembled by Elisabeth Washburn King and the Aline Abaecherli Boyce Collection of Roman Republican silver coins as well as the Densmore Curtis Collection presented by Clarissa Dryden. Professor Hetty Goldman has donated an extensive series of pottery samples from the excavations at Tar-

sus in Cilicia. Old World Paleolithic, Neolithic, Paleo-Indian, Eastern Woodland, Southwestern, Middle Mississippian and Mexican antiquities are also represented at Bryn Mawr in addition to the Ward Canaday Collection of outstanding examples of most of the ceramic and textile traditions known for Peru.

The Geology Department has valuable materials for research including the mineral collection of George Vaux, Jr. and 25,000 maps on deposit from the United States Army Map Service.

Students also use the resources of the Philadelphia area: the Philadelphia Museum of Art, the Pennsylvania Academy of Fine Arts, the Barnes Foundation, and the University Museum of the University of Pennsylvania. They take advantage of the musical life of the city by attending the Philadelphia Orchestra and by playing or singing with local groups.

Laboratories, classrooms and libraries for Biochemistry, Biology, Chemistry, Geology, Mathematics and Physics are located in the three buildings of the Science Center. At the Center are rooms designed for work with radioactive materials, for microphotography and for glassblowing; there is a machine shop with expert machinists in charge and a workshop available to graduate students. Laboratories and classrooms for Anthropology and Psychology are in Dalton Hall. In addition to the usual equipment, apparatus and instruments for particular research projects by faculty and graduate students have been acquired, in part, through the Plan for the Coordination of the Sciences, through research grants from industry and other private sources, and from government agencies.

Bryn Mawr and Haverford Colleges own jointly a third-generation computer (IBM 360, Model 44), having 128,000 bytes of core storage, along with approximately 32,000,000 bytes of random access disk storage and two magnetic tape drives. Access to this computer is available over a high-speed data line from a variety of remote terminals located in various places on the Bryn Mawr campus. The remote terminals include teletypes, a card reader, and one 600-line per minute printer, all driven by a small satellite computer.

Program of Study

The program of study consists of selected seminars, courses or individual work under the close direction of members of the faculty. For the sake of convenience, this program is divided into academic units which are to be completed at Bryn Mawr College. Three academic units constitute a full year's program. An academic unit may be a seminar, an undergraduate course for graduate credit, independent study in preparation for the Preliminary Examination, or a supervised unit of work.

A minimum of three academic units at Bryn Mawr is required for the degree of Master of Arts. Candidates for the degree of Doctor of Philosophy must complete three full years of graduate work which shall, with certain exceptions, include a minimum of six academic units at Bryn Mawr. Of these units at least one must be a unit of supervised work on the dissertation. The dissertation units may be part of the residence requirement or in addition to it.

The number of units required for the Doctor of Philosophy may be reduced to no less than four for those who have held academic appointments at Bryn Mawr College for two or more years. Students holding the A.B. degree from Bryn Mawr College shall offer a minimum of three units. The Council of the Graduate School of Arts and Sciences may, on recommendation of the departments, reduce the requirements for other students.

For the list of advanced undergraduate courses which with additional work may be accepted as graduate units subject to the approval of department chairmen and the Dean of the Graduate School of Arts and Sciences, see the departmental offerings beginning on page 16.

In many departments, members of the faculty and graduate students meet from time to time in Journal Clubs or Colloquia to discuss current research or review recent publications in their field of study.

Under the Reciprocal Plan, courses at the University of Pennsylvania Graduate School of Arts and Sciences are available to Bryn Mawr graduate students. 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. 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 Arts and Sciences of the University of Pennsylvania when registering there. The University charges a small general fee for the use of the

BRYN MAWR COLLEGE

library, a library deposit, which is refundable, and fees for late registration. Since the University of Pennsylvania opens early in September, Bryn Mawr students must make appropriate arrangements the previous spring. Ordinarily students are not advised to undertake such work during their first year at Bryn Mawr.

Students enrolled in the program in the History and Philosophy of Science attend seminars at the American Philosophical Society and at the University of Pennsylvania and register for these at Bryn Mawr.

Summer Work

Bryn Mawr has no regular summer session on campus. Occasionally, at the invitation of members of the faculty, arrangements can be made for graduate students to continue research during the summer. The amount of credit for the work and the tuition fee to be charged depend upon the particular circumstances. Students should register for such work at the Office of the Dean of the Graduate School of Arts and Sciences 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'Etudes françaises d'Avignon*. Certain 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.

Degree Requirements

The Graduate School of Arts and Sciences offers programs leading to the degrees of Doctor of Philosophy and Master of Arts.

The Degree of Doctor of Philosophy

The course of study is designed to prepare students for professional careers as scholars and teachers. Candidates should have ability of high order, intellectual curiosity, 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 general requirements, to which should be added those of the various departments, are as follows:

1. Undergraduate preparation in major and allied fields which is satisfactory to the departments concerned and to the Council of the Graduate School of Arts and Sciences.

2. A minimum of three full years of work beyond the A.B. degree in major and allied fields. Graduates of other colleges must complete at least six academic units at the Graduate School of Arts and Sciences of Bryn Mawr College. Of these units, at least one must be a unit of supervised work on the dissertation. The dissertation units may be part of the residence requirement or in addition to it. The residence requirement may be reduced by the Council of the Graduate School of Arts and Sciences for candidates who have held academic appointments for two or more years at Bryn Mawr College and occasionally for others. Students who hold the A.B. degree from Bryn Mawr College must complete a minimum of three academic units at Bryn Mawr.

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 Council of the Graduate School of Arts and Sciences. Application for candidacy, on a form to be obtained at the Office of the Dean of the Graduate School of Arts and Sciences, may be made as early as the spring of the student's first year provided that the student will have completed two units of graduate work at Bryn Mawr by the end of the semester.

4. Knowledge of the foreign languages, computer languages (such as FORTRAN, ALGOL, etc.), and special techniques (such as Statistics) required by the individual departments. Students whose

native language is not English must present evidence of proficiency in English. These requirements must be fulfilled before the student takes the Preliminary Examination.

5. A satisfactory Preliminary Examination in the fields established for the candidate. 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 major and allied fields rather than familiarity with particular courses.

6. The preparation of a dissertation worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject and 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. Micro-filming is accepted as a method of publication.

A special pamphlet describing regulations for the Ph.D. degree will be issued to students applying for candidacy.

The Degree of Master of Arts

The general requirements for the M.A. degree are as follows:

1. Undergraduate preparation in major and allied fields which is satisfactory to the departments concerned.

2. A knowledge of one modern foreign language and such additional foreign languages or special techniques as the individual departments may require. Students whose native language is not English, except for those majoring in the language and literature of their native tongue, must present evidence of proficiency in English and are not required to present an additional language.

3. The completion of a satisfactory program of work endorsed by the Department and accepted by the Council of the Graduate School of Arts and Sciences. Application for such endorsement must be submitted on appropriate forms to the Dean of the Graduate School of Arts and Sciences not later than one week after the beginning of the second semester of the academic year in which the candidate wishes to take the degree. The program of study 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. Only one

MASTER OF ARTS DEGREE

such course may be offered for the M.A. degree. 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 of Arts and Sciences. Candidates whose major Department conducts a Journal Club or Colloquium are expected to include it in their program.

4. The preparation of a paper in a special field normally related to one of the seminars or units of graduate work in the candidate's program. Candidates currently at Bryn Mawr College shall submit this paper by the date set by the Department. Candidates not currently on campus must submit the paper 30 days before Commencement of the academic year of the degree.

5. Each candidate, after all other requirements have been completed, must pass a final examination.

6. 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 (60 months).

Graduate Program in Arts and Sciences 1971-72

Graduate Seminars and Courses

Graduate seminars and courses vary from year to year. Brackets designate courses or seminars not given in the current year. Undergraduate courses which may be offered for graduate credit are listed by number. 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.

Special graduate requirements are listed under each Department. For the general degree requirements for the M.A. and the Ph.D., see pages 13-15.

Anthropology

Professor: Frederica de Laguna PH D *Chairman*

Associate Professor: Jane C. Goodale PH D

Assistant Professor: Philip L. Kilbride PH D

Lecturer: Charles C. Kolb MA

Assistant Professor of German: Nancy C. Dorian PH D (Linguistics)¹

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 Religion, History of Art, Linguistics, Philosophy, Political Science, Psychology and Sociology.

Language Requirements. Candidates for the M.A. or Ph.D. must offer two modern languages. Language skills may be tested by

¹ On leave, semester II.

either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. The program consists of a minimum of three units of work in seminars or advanced undergraduate courses arranged for graduate credit. One of these may be in an allied subject. The Final Examination consists of one four-hour written paper.

Program and Examinations for the Ph.D. 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 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 Examination 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.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

General:

Basic Principles of Anthropology: Mr Kilbride (semester I).

Anthropological History and Theory: Miss de Laguna (semester II).

Ethnology:

North America I: Miss de Laguna (semester II).

Africa: Mr Kilbride (semester I).

Australia: Miss Goodale (semester II).

[*Meso-America.*]

[*Oceania.*]

[*Central Asia.*]

[*Peasants.*]

Special Topics:

Ethnographic Methods: Miss Goodale (semester I).

Psychological Anthropology: Mr Kilbride (semester II).

[*Cultural Dynamics.*]

[*Primitive Religion and World View.*]

[*Social Organization.*]

[*Economic Anthropology.*]

[*Political Anthropology.*]

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Prehistory and Physical Anthropology:

Archaeology of North, Middle and South America: Mr Kolb.
[*Human Evolution and Cultural Beginnings.*]
[*Rise of Old World Civilizations.*]
[*Prehistory of Central Asia.*]

In addition, courses at the University of Pennsylvania are available under the terms of the Reciprocal Plan (see page 11).

SELECTED UNDERGRADUATE COURSES

320a. *History and Theory:* Miss de Laguna.
[321b. *Culture and Personality.*]
322b. *Physical Anthropology:* Mr Kolb.
[Interdepartmental 308. *Introduction to Linguistics.*]
[Interdepartmental 310. *Linguistic Techniques.*]
[Interdepartmental 312b. *Field Methods in Linguistics.*]

Biology

Professors: Robert L. Conner PH D *Chairman*
Jane M. Oppenheimer PH D

Assistant Professors: Anthony R. Kaney PH D
David J. Prescott PH D
Allen C. Rogerson PH D

Lecturers: Mary Jo Koroly PH D
Joseph Orkwiszewski PH D
Patricia O. Pruett PH D *Associate Dean of the Undergraduate College*

Visiting Lecturers: Cicily Chapman-Andresen DPHIL *National Science Foundation Senior Foreign Scientist*
Harmon C. Dunathan PH D

Assistant Professor of Chemistry: J. Maitland Young PH D¹

Prerequisites. An undergraduate major in Biology, Zoology or Botany, including courses in General and Organic Chemistry. Some college level 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 should submit scores from the Graduate Record Examination Aptitude Test and the Advanced Test in Biology.

¹ On leave, 1971-72.

Major and Allied Subjects. Candidates for the M.A. and Ph.D. degrees may specialize in Biochemistry, Cell Biology, Cellular Physiology, Developmental Biology, Genetics, Molecular Biology, Microbiology or Plant Physiology, but must take work also from areas not chosen for specialization. Allied subjects may be selected from fields in Chemistry, Physics and Psychology, and in special cases from other related fields, with the approval of the Council of the Graduate School of Arts and Sciences.

Language Requirements. Candidates for the M.A. degree should offer French, German or Statistics. Candidates for the Ph.D. degree must offer two foreign languages: French and German (or some other language by special permission of the Department and the Council of the Graduate School of Arts and Sciences), or one foreign language and Statistics. The Statistics requirements will be tested by the Department or may be satisfied by passing a graduate course in Statistics at Bryn Mawr. Language skills will be tested by the examinations administered by Bryn Mawr College.

Program and Examination for the M.A. One full year, or its equivalent, of course work in seminars and 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. The Final Examination consists of a four-hour written examination covering the areas of study, and a one-hour oral examination concentrating particularly on the interpretation and significance of the experimental problem and its relation to biology more generally.

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.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

All seminars and advanced undergraduate courses arranged for seminar credit are offered for one semester each year. The topics considered in any semester are selected in accordance with the needs and desires of the students enrolled.

GRADUATE COURSES

Advanced Biochemistry: Mr Prescott, Mr Dunathan (semesters I & II).

A course emphasizing the biophysical and biorganic aspects of biochemistry. A detailed treatment of protein chemistry and catalysis will be included. Two hours lecture. No laboratory. Prerequisites: Biology 353, Chemistry 203.

Statistics: (See offerings in the School of Social Work and Social Research and the Department of Psychology.)

SEMINARS

Developmental Biology: Miss Oppenheimer (semester I).

A single topic, chosen by the students enrolled, will be discussed in depth during the semester. The majority of the meetings will be devoted to student discussions rather than formal presentations. Topics discussed during recent years have included: constancy and change during post-embryonic development; enzymes in development; nucleocytoplasmic interactions during cell differentiation; morphogenetic substances.

Genetics: Mr Kaney (semester II).

A study of current literature dealing with genetic theory and problems. The seminar will include presentation and discussion of topics concerning areas of mutual interest.

Molecular Biology: Mr Rogerson (semester II).

This seminar will deal with a limited number of topics chosen by the students. Possible topics include the regulation of RNA and protein synthesis, regulation of enzyme and of biosynthetic pathway activity, the mechanism and control of protein and nucleic acid synthesis.

Plant Physiology: Mr Orkwiszewski (semester I).

The seminar will deal with the regulation of growth and development in plants. Topics such as hormone-nucleic acid interactions and photomorphogenesis will be discussed.

Biochemistry: Mr Conner, Mrs Chapman-Andresen (semester I).

Membrane structure and function. After an analysis of the present state of knowledge about the chemical composition of membranes, known biological transport systems will be defined in terms of the current membrane models.

Neurochemistry: Mr Prescott (semester II).

Structure and basic function of neural tissue will be examined. Metabolism of neural tissue will be discussed in the context of the uniqueness of this tissue. Membrane structure, energy metabolism, amine metabolism, and the role of cations in impulse conduction will be some of the topics covered.

ADVANCED UNDERGRADUATE COURSES

The following advanced undergraduate courses with supplemental work may be taken for graduate credit:

- 351a. *Problems in Genetics*: Mr Kaney.
 352a. *Problems in Molecular Biology*: Mr Rogerson.
 353. *Biochemistry*: Mr Conner, Mr Prescott, Miss Koroly.
 354b. *Bacteriology and Immunology*: Mr Orkwiszewski.
 355b. *Analysis of Development*: Miss Oppenheimer.
 [356. *Biophysics*: Miss Hoyt.]
 Int. 357b. *Computer Use in the Life Sciences*: Mrs Pruet.

Journal Club. All members of the Department and the graduate students meet each week for a presentation of current research in Biology. Graduate students, faculty and outside speakers will participate.

Chemistry

Professors: Ernst Berliner PH D *Chairman*
 Frank B. Mallory PH D
 George L. Zimmerman PH D

Associate Professors: Jay Martin Anderson PH D¹
 Joseph Varimbi PH D¹

Assistant Professor: J. Maitland Young PH D¹

Lecturer: Frances Bondhus Berliner PH D

Visiting Lecturer: Harmon C. Dunathan PH D

Appointments to be announced

Assistant Professor of Biology: David J. Prescott PH D

¹ On leave, 1971-72.

Fields of Study and Research. The primary aim of the instruction of graduate students in the Department of Chemistry is to provide a sound background in modern chemistry and to prepare men and women for a professional career in productive scholarship, research, and teaching in chemistry. Courses and seminars are offered to enable the students to acquire a command of their chosen fields, in addition to a sufficiently broad general background so that they will be prepared for the variety of assignments in chemistry teaching or research which they may later encounter. Thesis research is the major part of the training. Research training is centered around a variety of investigations carried out by the members of the faculty. Currently there are active research programs involving both faculty and students in the following areas of organic, inorganic, physical, and theoretical chemistry: kinetics of electrophilic substitution and addition, relative reactivities of polynuclear aromatic systems, isotope effects, the photochemical conversion of stilbenes to phenanthrenes, the chemistry of benzofurazan oxide, the use of nuclear magnetic resonance spectroscopy for structural organic problems, reactions in liquid ammonia and other non-aqueous solvents, photochemical cis-trans isomerizations, ultraviolet and vacuum ultraviolet absorption studies of hydrated transition metal ions, nuclear magnetic resonance as applied to nuclear relaxation and chemical exchange studies.

Under the Plan for the Coordination of the Sciences there are special opportunities for research and training in such interrelated areas as geochemistry, biochemistry, chemical physics.

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 Biochemistry, Organic, Inorganic or Physical Chemistry. The allied subject for the Ph.D. may be chosen from the fields of 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 Council of the Graduate School of Arts and Sciences and on the recommendation of the Department. The typical work for the allied subject would be a year's course or seminar on an approved level.

Language Requirements. Candidates for the M.A. must offer German, French or Russian. Candidates for the Ph.D. may offer German and either French, Russian or demonstrated skill in digital computation, numerical analysis and the theory of error. This skill may be demonstrated *either* by a satisfactory grade in the Mathematics 220c course or its equivalent, *or* by an examination consisting of two parts, a practical part requiring the successful execution of a FORTRAN (or other equivalent language) program, and a written examination on numerical analysis and error theory.

Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. Students who are candidates for the M.A. 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. Ph.D. students will normally be expected to devote a large proportion of their time to experimental or theoretical research, carried out under the direction 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, and a third, oral examination, which constitutes a defense of a number of research proposals previously submitted by the student. Four such proposals are required, two of which may be related to the student's thesis. The two written examinations will be from the candidate's major field. One will be a broad examination in the general aspects of the major field. The second will be in the special field of the candidate's research, with questions to include those testing familiarity with, and ability to interpret, material from the recent chemical literature of the candidate's special field. The proposition examination must be taken within one year after the first written examination. 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.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

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 each one is usually given at least once within a three-year period. The topics listed below are given in one-semester seminars, counting one-half unit of credit each. Ordinarily four seminars are offered each year. Individual programs are flexible, and the contents

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of the seminars are likely to vary with the research interests of the students and the current research activities of the faculty.

The seminars listed below are illustrative of those that have been offered in recent years.

- Inorganic Chemistry*: Mr Varimbi.
Recent Methods in Organic Synthesis: Mr Mallory.
Structure and Physical Properties of Organic Compounds: Mr Berliner.
Spectral Applications in Current Organic Chemistry: Mr Mallory.
Physical Organic Chemistry: Mr Berliner.
Natural Products: Mrs Berliner.
Physical Organic Aspects of Aromatic Chemistry: Mr Berliner.
Organic Photochemistry: Mr Mallory.
Chemistry of Heterocyclic Compounds: Mrs Berliner.
Introduction to Chemical Physics: Mr Zimmerman.
Introduction to Molecular Spectroscopy: Mr Anderson.
Intermediate Quantum Mechanics: Mr Anderson.
Photochemistry: Mr Zimmerman.
Theory of Electrolytic Solutions: Mr Varimbi.
Applications of Group Theory in Quantum Mechanics: Mr Zimmerman.
Nuclear Magnetic Resonance: Mr Anderson.
Statistical Thermodynamics: Mr Varimbi.
Chemistry of Biological Systems: Mr Dunathan.
Physical Chemistry of Proteins and Nucleic Acids: Mr Young.
Chemistry of Coenzymes: Mr Young.
Mechanism of Enzymatic Reactions: Mr Young.

For additional seminars in Biochemistry, see Department of Biology.

Colloquium. All members of the Department and the graduate students meet every week for a presentation of current research in Chemistry, usually by outside speakers.

SELECTED UNDERGRADUATE COURSES

The following advanced undergraduate courses may be taken for graduate credit:

- 301b. *Advanced Inorganic Chemistry*: Mr Varimbi.
302. *Advanced Organic Chemistry*: Mr Mallory, Mr Berliner.
303. *Advanced Physical Chemistry*: Mr Zimmerman.
353. *Biochemistry*: Mr Conner, Mr Prescott, Miss Koroly.

Classical and Near Eastern Archaeology

Professors: Machteld J. Mellink PHD *Chairman*
Brunilde S. Ridgway PHD

Katharine E. McBride Visiting Professor: Lillian H. Jeffery PHD

Associate Professors: Carl Nylander PHD
Kyle M. Phillips, Jr. PHD

Prerequisites. An undergraduate major in Archaeology or at least two courses in Archaeology combined with a major in Greek, Latin, Ancient History, or History of Art. It is expected that students of Classical and Near Eastern Archaeology will have a basic knowledge of Greek and Latin. Students with incomplete preparation in Archaeology will be advised to take selected undergraduate courses during their first year in graduate school.

Allied Subjects. Greek, Linear B, Latin, Akkadian, Hebrew, Hittite, Egyptian; History of Art, Ancient History, Anthropology, a science related to the archaeological program of the candidate.

Language Requirements. For the M.A. and Ph.D., a good reading knowledge of German and French. For the Ph.D., a reading knowledge of Greek or a Near Eastern ancient language. Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College.

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 (three hours) and oral (one hour).

Program and Examinations for the Ph.D. The students spend the first two years in residence, participating in seminars and preparing for the Preliminary Examination. The third year is usually spent at the American School of Classical Studies in Athens or at another archaeological research center abroad. Museums in Europe and the Near East are visited during this year, and participation in excavations is arranged when possible (see below).

The Preliminary Examination, normally taken at the end of three years of graduate work, consists of four four-hour papers in selected fields such as Greek and Roman sculpture, architecture, monumental

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painting, Greek vase-painting, numismatics, Aegean prehistory, prehistory of Western Asia, Mesopotamian art and archaeology, the archaeology of Anatolia or Syria. One of the papers may be written in an allied field. The Final Examination covers the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

Excavations. The Department currently sponsors two excavation projects:

- I. An investigation of the Bronze Age habitation of ancient Lycia, in progress since 1963 at the third millennium B.C. site of Karataş near Elmali.* Advanced graduate students participate in this excavation which is organized as a field seminar during the fall term with full graduate credit. The program provides instruction in excavation and field techniques and gives an opportunity to visit other sites, excavations and museums in Turkey, with discussion of the problems of the Bronze Age in the Aegean and Anatolia. The final publication will be prepared on the basis of the joint field reports by the participants.
- II. The Etruscan project, started in 1966, is the excavation of the archaic site of Murlo near Siena, organized in cooperation with the Archaeological Museum in Florence. The work takes place during the summer and offers qualified graduate and undergraduate students training in excavation techniques while participating in the study of a townsite and necropolis of the sixth century B.C.†

Cooperation with the University of Pennsylvania. Attention is drawn to the courses offered by the Departments of Classical Archaeology, Anthropology, History of Art, Oriental Studies, and Biblical Archaeology at the University of Pennsylvania. 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 following seminars are offered in 1971-72:

Miss Mellink:

Field Seminar in Lycia (semester I).

Anatolian Architecture of the Bronze Age (semester II).

* cf. *American Journal of Archaeology* 68 (1964) 269-278; 69 (1965) 241-251; 70 (1966) 245-257; 71 (1967) 243-263; 72 (1968) 243-263; 73 (1969) 319-331; 74 (1970) 245-259.

† cf. *American Journal of Archaeology* 71 (1967) 133-139; 72 (1968) 121-124; 73 (1969) 333-339; 74 (1970) 241-244.

Mrs Ridgway:

- Problems of Peloponnesian Sculpture* (semester I).
The Problem of the Greek Architect (semester II).

Miss Jeffery:

- Archaic Greek Epigraphy* (semester I).

Mr Phillips:

- The Western Greeks* (semester I).
Greek Vase Painting (semester II).

Mr Nylander:

- The End of the Mycenaean Age* (semester I).
Urartu (semester II).

ADVANCED UNDERGRADUATE COURSES

- 201b. *Egypt and Mesopotamia pre-1600 B.C.*: Miss Mellink.
 202b. *Ancient Cities of the Near East and Greece*: Mr Nylander,
 Mrs Ridgway.
 203a. *Greek Sculpture*: Mrs Ridgway.
 203b. *Roman Sculpture*: Mr Phillips.
 204b. *Egypt and Mesopotamia from 1600 to 546 B.C.*:
 Miss Mellink.
 205b. *Aegean Archaeology*: Mr Nylander.
 301a. *Greek Vase Painting*: Mr Phillips. (This or a similar course
 is a prerequisite for the 1971-72 semester II seminar in
Greek Vase Painting.)
 301b. *Greek Architecture*: Mrs Ridgway.
 302b. *Roman Architecture*: Mr Phillips.
 304a. *Monumental Painting*: Mr Phillips.
 History 205a. *The Ancient Near East*: Mr Nylander.

Economics

Professor: Joshua C. Hubbard PHD *Chairman*

Associate Professors: Richard B. Du Boff PHD¹
Noel J. J. Farley PHD

Lecturer: Helen Manning Hunter PHD

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. Students whose undergraduate training in Economics is incomplete may be required to take such undergraduate courses as the Department thinks necessary.

Allied Subjects. Most subjects in the other social sciences, and in History and Philosophy, are acceptable. Mathematics and Statistics are necessary to advanced work in Economics.

Language Requirements. Candidates for the M.A. and Ph.D. must show reading proficiency in one modern language and competence in Statistics and Econometrics. The statistics-econometrics requirement will be tested by the Department or may be satisfied by passing a graduate course at a satisfactory level.

Language skills will be tested by the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program of Study for the M.A. 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 Statistics and Econometrics, and one in the student's special field of interest. 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.

Admission to the Ph.D. Program. Students holding a Master's degree in Economics from other institutions may be required to pass a qualifying examination before admission. Those who have been admitted to the Ph.D. program are eligible to apply for candidacy

¹ On leave, semester I.

for the Ph.D. when they have completed or are about to complete six full units of graduate work at Bryn Mawr, which are to include the completion of the Bryn Mawr M.A. program. Some candidates may be expected to take the equivalent of at least one year of graduate work at another institution approved by the Department.

Program of Study for the Ph.D. 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.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

Mr Du Boff:

Political Economy.

Economic Development: the United States and Western Europe.

Mr Farley:

[*History of Economic Thought.*]

Introduction to Mathematical Economics.

International Trade and Development.

Mr Hubbard:

Macroeconomic Theory.

Fiscal-Monetary Theory and Policy.

Public Finance and Fiscal Policy.

SELECTED UNDERGRADUATE COURSES

201a. *Economic History and Development.*

207a. *Money and Banking.*

208b. *Public Finance and Fiscal Policy.*

212b. *Political Economy.*

[216b. *Western European Economic Development.*]

220b. *Mathematics for Economists.*

301a. *Statistical Methods in Economics.*

302b. *Introduction to Econometrics.*

303a. *Macroeconomic Analysis.*

304b. *Macroeconomic Analysis.*

311a. *Seminar in International Economics.*

Education and Child Development

Professor: Ethel W. Maw PHD *Chairman*

Professor and Director, Child Study Institute: Janet L. Hoopes PHD

Associate Professor and

Director, Thorne School: Susan E. Maxfield MS

Assistant Professors: Emmy A. Pepitone PHD

Faye P. Soffen PHD

James J. Tracy PHD

Instructor: Beth Riser MA

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.

Bryn Mawr has program approval from the Pennsylvania Department of Education for several curriculum sequences which prepare candidates for public school professions. These courses of study include teacher education in twelve liberal arts fields, school psychology and school counseling, both elementary and secondary. Students who satisfactorily complete an approved program will, on the recommendation of this department, receive the state certificate in the appropriate field.

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. Undergraduate grades of at least B level are necessary.

Major and Allied Subjects. Candidates for advanced degrees are expected to become competent in several different areas: Child Development, Clinical Evaluation, Counseling and Guidance, Early Childhood Education, History and Philosophy of Education, Learning, the School as a Social Institution, Secondary Education. For the M.A., two fields are required. For the Ph.D., five fields must be presented. One field may be an allied field and is individually arranged.

Requirements in Languages and Statistics. For the M.A., students are

required to pass an examination in one modern foreign language and demonstrate a working knowledge of descriptive and inferential statistics. For the Ph.D., students are required to pass an examination demonstrating reading knowledge of one modern foreign language and competence in statistics through multiple correlation and factor analysis. The statistics requirement for both degrees may be satisfied by passing an examination or by passing an appropriate course at a satisfactory level. Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

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. A written examination is not required for the fifth field. The Final Examination is in the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

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 spend substantial blocks of time in the Thorne School.

The Department also operates at the College the Child Study Institute, a mental health center where problems of learning and behavior are studied and remedial measures planned and carried out with parents and children. The service is given by a staff of qualified specialists in child psychiatry, psychology, school counseling and remedial teaching. Advanced students participate at various levels of responsibility. Referrals from the schools, 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, individual and group therapy and student observation.

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SEMINARS

The seminars offered are selected from the following (in most cases, laboratory practice is required):

Miss Hoopes:

Critical Issues in Child Development.
Adolescent Development.

Miss Maxfield:

Developmental Psychology.
Early Childhood Education.

Mrs Maw:

Educational Psychology.
Curriculum of the Elementary School.
Research and Measurement in Education and Child Development.

Mrs Pepitone:

History and Philosophy of Education.
The Social Psychology of the School.
Analysis of Social Structure and Interaction in the Classroom.

Mrs Soffen:

Principles and Organization of the Guidance Program.
The Counseling Process: Theory and Practice.
The Group Process in Counseling and Guidance.
The Psychology of Occupations.
Advanced Practicum in Elementary and Secondary School Counseling.

Mrs Riser:

The Psychology of Exceptional Children.
The Diagnosis and Remediation of Learning Disabilities.
The Treatment of Reading Disorders.

Mr Tracy:

Advanced Clinical Evaluation
(including the Projective Techniques).
The Individual.

SELECTED UNDERGRADUATE COURSES

201a. *Educational Psychology:* Mrs Maw.

206a. *Child Psychology:* Mr Tracy.

301a. *Principals of Teaching in the Secondary School:* Mrs Maw.

302a. *Principles of Teaching in the Elementary School:* Mrs Maw.

308b. *Adolescent Development:* Mr Tracy.

Course numbers 301a and 302a satisfy the student-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.

English

Professors: Robert B. Burlin PHD *Chairman*
K. Laurence Stapleton AB

Associate Professors: Thomas H. Jackson PHD¹
Joseph E. Kramer PHD

Assistant Professors: Roger W. Cummins PHD¹
June Q. Koch PHD
Sandra I. Kohler PHD
Clifford Earl Ramsey PHD

Lecturers: Robert Lee MA
Anthony J. Litwinko MA
Adrienne Lockhart MA
Irma S. Lustig PHD

Instructor: Katherine Janowitz MA

Prerequisites. An undergraduate major in English or its equivalent. Students should 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 should submit scores in the Aptitude Test of the Graduate Record Examination.

Allied Subjects. Any classical or modern European language and literature; Philosophy; medieval or modern History; and History of Art.

Language Requirements. For the M.A. degree, a knowledge of either French or German, adequate to the reading of basic scholarly and literary texts. To proceed to the Ph.D., the student must either pass examinations in both French and German, or demonstrate superior competence in one by satisfactorily completing one unit of graduate work in that language or its literature at Bryn Mawr. In special cases, with the approval of the appropriate language department and of the Department of English, equivalent work at another university may be accepted. When it can be justified in connection with the proposed field of specialization, the student may substitute graduate work in another foreign language, ancient or modern, for one of the examinations. Students working toward the doctorate are also required to show evidence of an adequate knowledge of Latin or Greek. It is expected that the student will satisfy these requirements early in his second year of graduate study; they must be completely satisfied before the doctoral candidate may present himself for the Preliminary Examination.

¹ On leave, 1971-72.

Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examinations for the M.A. Three units of work in English or two in English and one in an allied field. The M.A. paper is due on April 21. The Final Examination is written, four hours in length, and on the general field of the M.A. paper.

Program and Examinations for the Ph.D. Work of the Department is carried through small seminars and supervised units of independent study. Six units of graduate work are required, one of which may be in an allied field. Candidates will be expected to spend at least one year in full-time graduate work. The program must include some training in Old English or in the History of the English Language, unless a special exception is granted.

After acceptance for doctoral candidacy, the student will take a Preliminary Examination in five parts: four written (four hours each) and an oral (one or two hours). One written examination may be in an allied field. The choice of the four fields will be determined by the student in consultation with the graduate advisor and the departmental examiners who will form the Supervising Committee. The candidate is expected to demonstrate a balanced knowledge of different periods.

Before proceeding with the dissertation, it is recommended that the doctoral candidate submit a prospectus to be discussed with the departmental members of the Supervising Committee. The Final Examination is in the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS

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

Mr Burlin:

[*Chaucer.*]
Old English Literature.
Middle English Literature.

Mr. Kramer:

[*Shakespeare in His Age.*]
English Drama to 1642.

Miss Stapleton:

Milton.
[*Studies in Poetry.*]

Mr Ramsey:

The Age of Pope (semester I).

The Major Fiction of William Faulkner (semester II).

[*Studies in Restoration and Eighteenth Century Literature.*]

[*English Prose Fiction from Bunyan to Jane Austen.*]

Mrs Koch:

Studies in Romantic Poetry.

Mr Cummins:

[*Studies in American Literature.*]

[*Nineteenth Century English and American Novel.*]

Mr Jackson:

[*Studies in Twentieth Century Literature.*]

Mr Lee:

Nineteenth Century American Literature.

SELECTED UNDERGRADUATE COURSES

201a,b. *Chaucer and His Contemporaries*: Mr Burlin, Mrs Lockhart.

210a,b. *Sixteenth Century Literature*: Mrs Kohler.

225a,b. *Shakespeare*: Mr Kramer.

254a. *Victorian Literature*: Mr Litwinko.

258b. *Studies in the Nineteenth Century Novel*: Mrs Janowitz.

323a. *Renaissance English Tragedy*: Mr Kramer.

352a. *Theory and Structure in the Poetry of the Nineteenth Century*: Mrs Koch.

355b. *Studies in Victorian Poetry*: Mr Litwinko.

384a. *Theory and Practice of Fiction*: Mrs Lockhart.

French

Professors: Michel Guggenheim PHD *Chairman*¹

Mario Maurin PHD²

Visiting Professor: William J. Roach PHD

Associate Professors: Gérard Defaux, Agrégé

M. Pauline Jones PHD *Acting Chairman*

Assistant Professor: Catherine Lafarge PHD

Lecturer: Charles Altman MA

¹ On leave, semester I.

² On leave, semester II.

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 is advisable.

Major and Allied Subjects. Students specialize in French Literature from the Middle Ages to the present. Successful completion of a course in Old French Philology and Literature is required of Ph.D. candidates. 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. For the M.A. degree, one Romance language, or German, or evidence of extensive training in Mediaeval Latin or advanced Latin. For the Ph.D. degree, a reading knowledge of two languages (including one Romance language other than French), or at least one unit of graduate work in a Romance literature other than French, or in German literature. Students may satisfy the latter requirement by completing satisfactorily one unit of graduate work at Bryn Mawr. In special cases, with the approval of the appropriate language department, and of the Department of French, equivalent work at another university may be accepted.

Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. Candidates will offer two units of graduate work in French and a third unit, 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 Examinations for the Ph.D. The Preliminary Examination consists of four papers written in French, and an oral examination. The Final Examination is oral and covers the field in which the dissertation has been written.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

An 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 French Literature are given each year, so arranged that the same one will not be given in successive years. The seminars, conducted in French, are selected from the following:

Mr Altman: *Le Développement du héros romanesque de l'Astrée aux Liaisons dangereuses* (1971-72).

Mr Defaux: *Villon, Charles d'Orléans, Marot.*

Les conteurs au XVI^e siècle.

Rabelais, Montaigne (1971-72).

Mr Guggenheim: *Précieux, mondains et moralistes du XVII^e siècle.*

Voltaire.

Rousseau et le Prémantisme.

Stendhal.

Miss Jones: *Baudelaire.*

Verlaine, Rimbaud (1971-72).

Scève, Mallarmé.

Miss Lafarge: *Le Thème de Paris dans la littérature française.*

Diderot (1971-72).

Le Thème de la prison au XIX^e siècle.

Marivaux, Giraudoux.

Mr Maurin: *Romancières des XIX^e et XX^e siècles* (1971-72).

Réalisme et Naturalisme.

Valéry, Claudel, Proust, Gide.

Travaux Pratiques sur la littérature actuelle.

Mr Roach: *Introduction à la littérature du moyen âge, présentation systématique des éléments de grammaire historique* (1971-72).

SELECTED UNDERGRADUATE COURSES

[301. French Lyric Poetry.]

[302. French Drama.]

[303. French Novel: XVIIIth and XXth centuries.]

304a. *Gide, Camus*: Mr Maurin.

304b. *Le Roman du XIX^e siècle*: Miss Lafarge.

305a. *Baudelaire*: Miss Jones.

305b. *Ecrivains engagés de Montaigne à Sartre*: Mr Guggenheim.

Courses offered at the Avignon Institute

Molière or Racine.

Les Fleurs du Mal or Rimbaud.

Le Surréalisme.

Travaux de traduction et de stylistique.

Geology

Associate Professor: Lucian B. Platt PHD *Chairman*

Assistant Professors: Maria Luisa B. Crawford PHD

William A. Crawford PHD

W. Bruce Saunders PHD

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. degree, one of the following: Russian, German, or French. Candidates for the Ph.D. degree may offer two foreign languages from the following: Russian, German, or French; or one foreign language from this list and proficiency in digital computation, numerical analysis and the theory of error. This proficiency may be demonstrated either by a satisfactory grade in Interdepartmental Course 220c or its equivalent or by an examination to be administered by the Department.

Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

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 course 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.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

Three or four seminars are offered each year, to be selected from the following:

Mr Crawford: *Petrology*.

Selected subjects in the structure, physical chemistry and origin of rocks.

Mr Platt: *Structural Geology*.

Modern techniques and concepts in structural analysis.

Mrs Crawford: *Mineralogy*.

The optical, chemical and X-ray study of selected mineral groups.

Mr Saunders: *Sedimentary Petrology*.

A study of the constitution and the origin of sedimentary rocks; their source, transportation and deposition.

Mrs Crawford: *Metamorphism* (semester I).

The physical and chemical processes of metamorphism, accompanied by regional studies. Instruction on the universal stage and a study of petrofabrics may be included.

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.

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.

Mr Saunders: *Paleontology*.

A study of selected animal groups in geologic time according to the interests and needs of the students.

SELECTED UNDERGRADUATE COURSES

201a. *Crystallography*: Mrs Crawford.

201b. *Mineralogy*: Mrs Crawford.

202a. *Paleontology*: Mr Saunders.

[203. *Physiography*: Mr Crawford.]

204a. *Structural Geology*: Mr Platt.

302a. *Stratigraphy*: Mr Platt.

302b. *Advanced Paleontology*: Mr Saunders.

303a. *Thermodynamics and Crystal Chemistry*: Mr Crawford.

304. *Petrology*: Mr Crawford, Mrs Crawford, Mr Saunders.

305b. *X-ray Crystallography*: Mrs Crawford.

German

Professor: Hans Bänziger PH D *Chairman*

Associate Professor: Marie G. Flaherty PH D

Assistant Professors: Nancy C. Dorian PH D¹
James W. Scott PH D

Prerequisites. An undergraduate major or minor in German or an equivalent preparation. Applicants should submit scores in the Aptitude Test and Advanced Tests of the Graduate Record Examinations.

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. Graduate students are encouraged to acquaint themselves with the theory and practice of teaching German.

Language Requirements. Normally French for the M.A.; French and another language for the Ph.D., preferably Latin. With the approval of the Department, the satisfactory completion of a graduate seminar at Bryn Mawr in a foreign literature other than German can be offered for one language requirement. In special cases, with the approval of the appropriate language department, and of the Department of German, equivalent work at another university may be accepted.

Language skills are tested whenever possible by the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service, otherwise by the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. The program consists of three units in German literature or in German literature and 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 Examinations for the Ph.D. Every candidate must fulfill certain requirements in German literature and Germanic philol-

¹ On leave, semester II.

ogy. Those majoring in Germanic philology will select the following courses: History of the German language, Gothic, Old High German, Middle High German, structural linguistics, and one of the following: Old English or Old Norse. Those majoring in German literature will take a minimum of one unit in Germanic philology and will normally take one unit each in the mediaeval, 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. The Final Examination covers the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS

Mr Bänziger:

Brecht and Durrenmatt (semester II).

[*Gottfried Keller.*]

[*Hofmannthal and Rilke.*]

Miss Dorian:

Old High German (semester I).

[*History of the German Language.*]

[*The Structure of German.*]

Miss Flaherty:

Goethe and Schiller (semester I).

Romanticism (semester II).

[*German Baroque Literature.*]

Mr Scott:

The Legend (semester I).

Minnesang (semester II).

[*Reformation and Humanism.*]

SELECTED UNDERGRADUATE COURSES

300a. *A Survey of German Literature*: Mr Bänziger.

[301b. *Introduction to Germanic Philology*: Miss Dorian.]

302a. *Vernacular Literature in Medieval Germany*: Mr Scott.

304b. *The German "Novelle"*: Mr Scott.

[305a. *The German Drama*: Mr Bänziger.]

307a. *Introduction to Celtic Civilization*: Miss Dorian.

Preparatory course for degree candidates in other Departments:

Reading German. This course, which does not carry academic credit, is designed to assist students in meeting the language requirements for advanced degrees. An extra charge will be made.

Greek

Professor: Mabel L. Lang PHD *Chairman*

Katharine E. McBride Visiting Professor: Lillian H. Jeffery PHD

Assistant Professors: Gregory W. Dickerson MA

Richard Hamilton PHD

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 for both the M.A. and the Ph.D. Language skills will be tested by the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

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 (with emphasis on Homer), Lyric Poetry (with emphasis on Pindar), Tragedy, Comedy, the Orators, the Historians, the Pre-Socratics, Plato and various periods of Greek history. The Final Examination covers the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

Miss Lang: *The Peloponnesian War* (semesters I and II).

Miss Jeffery: *Archaic Greek Epigraphy* (semester I).

Mr Hamilton: *Hellenistic Poetry* (semester I).

Mr Dickerson: *Sophocles* (semester II).

SELECTED UNDERGRADUATE COURSES

101. *Herodotus and Tragedy*: Miss Lang, Mr Dickerson.

102a. *Homer*: Mr Dickerson.

201. *Plato and Thucydides; Hesiod and Tragedy*: Mr Dickerson, Mr Hamilton.

301. *Lyric Poetry; Aeschylus and Aristophanes*: Mr Hamilton, Mr Dickerson.

History

Professors: Arthur P. Dudden PHD *Chairman*

Elizabeth Read Foster PHD *Dean*

J. H. M. Salmon MLIT LITD

James Tanis THD *Director of Libraries*

Associate Professors: Charles M. Brand PHD

Mary Maples Dunn PHD

Barbara M. Lane PHD

Alain Silvera PHD

Assistant Professor: Charles A. Culotta PHD

Lecturer: Mark Adams MA¹

Professor of History of Religion: Howard C. Kee PHD

Assistant Professor of Greek and Latin: Gregory W. Dickerson MA

Assistant Professor of Latin: Russell T. Scott PHD

¹ On leave, semester I.

Prerequisites. A good undergraduate preparation in History, the humanities and the social sciences. Students who wish to work in the ancient or mediaeval fields must be able to read the essential ancient languages. Those planning work in Modern European History or American History must have a reading knowledge of one modern language, preferably French or German, upon entrance. Those planning doctoral programs should have two languages upon entrance or acquire the second language at once.

Language Requirements. Students must offer at least one modern foreign language, to be determined by the Department, for the Master's degree. Students who wish to continue work toward the Ph.D. must have completed the examinations in two modern foreign languages, to be determined by the Department, by the end of their second academic year of graduate work. Students entering with the M.A. must complete these requirements during their first year at Bryn Mawr. The time limit for part-time students is determined by the academic year, not by the number of units completed. Candidates for the Ph.D. in ancient or mediaeval history must also demonstrate ability to read one classical language. Directors of research may also require demonstration of ability in special techniques.

Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr. We urge new students to pass the GSFLT examinations before taking up their graduate studies.

Program and Examination for the M.A. The program consists of three units of work in History or in History and an allied field, together with a paper and a final examination. 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, and also in the field of the projected dissertation to satisfy the Department of the student's competence to undertake research. For example, allied work in Mediaeval Literature, Art or Philosophy is usually recommended to students of Mediaeval 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 Modern European History. Students specializing in English History must offer at least two fields of Mediaeval or Modern European History for examination. The Final Examination covers the field of the dissertation.

Fields of Specialization Available. Master's and doctoral programs should be developed from seminars and courses available. Research for theses and dissertations should grow out of seminars and units offered by the History Department and those departments allied with it.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

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. The designation of the academic year indicates current offerings.

Ancient History

Students should consult pages 42 and 51 where the offerings of the Departments of Greek and Latin are listed.

Mediaeval and Renaissance History

Mr Brand: *Medieval Institutions* (1971-72).

The Fifth and Sixth Centuries.

The Carolingians.

The Twelfth Century.

Early Modern European History

Mr Salmon: *French Political Ideas from the Wars of Religion to the Enlightenment.*

Mr Tanis: *The Reformed Reformation in Northern Europe* (semester II, 1971-72).

British History

Mrs Foster: *Parliament in the Early Stuart Period* (1971-72).

Social and Economic History of the Early Stuart Period.

American History

Mr Dudden: *The Progressive Era.*

The New Deal.

The United States in the Second World War (1971-72).

Mrs Dunn: *Seventeenth Century America.*

Eighteenth Century America.

Modern European History

Mrs Lane: *Modern Germany: National Socialism, Bauhaus.*

Topics in the History of Twentieth Century Europe.

Mr Silveira: *The French Third Republic.*

BRYN MAWR COLLEGE

Methodology and Historiography

Mr Krausz: *Philosophy of History* (1971-72).

(offered in the Department of Philosophy)

Mr Salmon: *Readings in Eighteenth Century Historiography*

(semester I, 1971-72).

SELECTED UNDERGRADUATE COURSES

300 level courses may, with additional work, be offered for graduate credit.

- 205a. *The Ancient Near East*: Mr Nylander.
- 205b. *Ancient Greece*: Miss Lang.
- 206a. *Roman History*: Mr Damski.
- 206b. *Roman History*: Mr Scott.
- 207. *Latin America—Colonies and Revolutions*: Mrs Dunn.
- 208. *Byzantine History*: Mr Brand.
- 212. *Renaissance and Reformation*: Mr Salmon.
- 230. *A History of the Afro-American People*: Mr Aptheker.
- 270b. *Mediaeval Cities*: Mr Brand.
- 290. *The Civilization of France*: Mr Silvera.
- 301b. *Europe in the Twentieth Century*: Mrs Lane.
- 312b. *Colonial America*: Mrs Dunn.
- 314. *History of Science*: Mr Culotta.
- 315a. *Topics in Modern British History*: Mrs Lachs.
- 325b. *The Life and Works of W. E. B. DuBois*: Mr Aptheker.

History and Philosophy of Science

Director: José María Ferrater Mora Lic FL¹

Advisory Committee: Jane M. Oppenheimer PHD

Ernst Berliner PHD

Mary Maples Dunn PHD

Assistant Professor: Charles A. Culotta PHD

Lecturer: Mark Adams MA²

Visiting Lecturers: Maurice Pierre Crosland PHD

Russell K. McCormmach PHD

Arnold W. Thackray PHD³

¹ On leave, semester II.

² On leave, semester I.

³ On leave, 1971-72

This program within the Department of History has been developed in collaboration with the American Philosophical Society and the Department of the History and Sociology of Science at the University of Pennsylvania. Courses taken at any of the participating institutions may be credited toward an advanced degree.

Prerequisites. Undergraduate preparation in science, philosophy, and history.

Major and Allied Subjects. The student's major subject will be History of Science, to be supported by intensive work in the field of history related to his special area of interest. Allied subjects may be philosophy and other areas in science and history.

Language Requirements. Students must offer at least one modern foreign language, to be determined by the Department, for the Master's degree. Students who wish to continue work toward the Ph.D. must have completed the examinations in two modern foreign languages to be determined by the Department before taking the Preliminary Examination.

Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. The program consists of at least two units of work in the History of Science and one unit of work in a related field of History or Philosophy. The Final Examination is written, and is usually four hours in length.

Program and Examinations for the Ph.D. The Preliminary Examination tests the student's competence in four general fields, three in the History of Science and one in a related field of History or Philosophy. The Final Examination covers the field of the dissertation which must be in History of Science.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

Mr Crosland: *Chemistry and Society since 1700* (semester I at the University of Pennsylvania).

Mr Culotta: *Scientific Correspondence in the Seventeenth Century* (semester I at Bryn Mawr College).

Science during the French Enlightenment (semester II at the University of Pennsylvania).

Mr Adams: *Biology and Medicine in the Last Century* (semester II at the University of Pennsylvania).

Mr McCormach: *History of Physics* (semester II at Bryn Mawr College).

Seminar in History of Medicine: Members and staff of the American Philosophical Society and guest speakers; *Health and Society: Historical Perspectives* (at the School of Medicine, University of Pennsylvania).

UNDERGRADUATE COURSES

313a. *Antiquity to the Renaissance*: Mr Culotta.

314. *History of Science*: Mr Culotta.

History of Art

Professors: Charles Mitchell B LITT LITTD *Chairman*
James E. Snyder MFA PHD

Associate Professor: Charles G. Dempsey MFA PHD

Assistant Professor: Arthur S. Marks PHD¹

Lecturer: Robert W. Gaston DPHIL

Field of Study. The history of Western art from Early Christian to modern times.

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

Language Requirements. 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. Both M.A. and Ph.D. candidates are required to prove by examination their knowledge of two modern foreign languages.

Language skills will be tested by the examinations administered by Bryn Mawr College. Entering students may offer scores of the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Allied Subjects. History, Archaeology, Classics, Modern Languages; others, exceptionally, by arrangement.

¹ On leave, 1971-72.

Program for the M.A. (a) Three units of graduate work, one of which may be in an allied field, (b) an extended paper on an approved topic, (c) a written (or written and oral) examination to test the candidate's ability to place this topic in its art-historical context.

Program for the Ph.D. Prime emphasis is placed on a program of study and research leading to the dissertation, and students normally begin to work under a personal supervisor soon after entry. The Preliminary Examination consists of four written papers and an oral examination on four areas of art-history (or on three and one allied subject). After two or three years at Bryn Mawr, students normally go abroad for a period of research on their dissertations.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

Kress Program. The Department participates in the Samuel H. Kress Foundation Fellowship Program.

SEMINARS AND GRADUATE COURSES

Four one-term seminars, on widely spaced topics that change from year to year, are annually given, in addition to individual units of supervised work. Graduate students are sometimes advised to take selected intermediate or advanced undergraduate courses. Topics for 1971-72:

Mr Mitchell: *Topics in Renaissance Art* (semester I).

Mr Snyder: *Topics in Mediaeval Art* (semester I).

Mr Dempsey: *Problems in Renaissance and Baroque Iconography* (semester II).

Mr Gaston: *Problems in Coptic Art* (semester II).

ADVANCED UNDERGRADUATE COURSES

320a. *Classical Survival in Mediaeval Art*: Mr Gaston.

321b. *Late Gothic Painting in Northern Europe*: Mr Snyder.

322b. *Picasso*: Mr Mitchell.

323a. *Baroque Allegory*: Mr Dempsey.

History of Religion

Professor: Howard C. Kee PHD *Chairman*

Associate Professor: Samuel Tobias Lachs PHD

Professor of Philosophy: Jean A. Potter PHD

Director of Libraries and Professor of History:

James R. Tanis THD

Visiting Lecturers: Patrick Henry PHD

Donald K. Swearer PHD

A degree program at the graduate level is not offered in History of Religion. For work in this area, students should consult the offerings of the Department of History. The courses listed below are open to graduate students, and may be taken for graduate credit with permission of the major department.

GRADUATE COURSES

- 210b. *Mediaeval Philosophy:* Miss Potter.
- 300. *Mediaeval Jewish Thought:* Mr Lachs.
- [301a. *Gnosticism:* Mr Kee.]
- [302a. *Readings in the Greek New Testament:* Mr Kee.]
- 302b. *Jewish Antecedents of Early Christianity:* Mr Kee.
- 303a. *Religion in the Hellenistic World:* Mr Henry.
- 303b. *Myth and History:* Mr Kee.
- 306. *Buddhist Texts in Translation:* Mr Swearer.

Italian

Lecturers: Nicholas Patruno MA

Elizabeth Welles PHD

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

- 201b. *Novel and Poetry of Modern Italy:* Mr Patruno.
- [301. *Dante.*]
- 303a. *Petrarch, Boccaccio and Early Humanists:* Mr Patruno.
- 303b. *Literature of Italian Renaissance:* Mrs Welles.
- 305a. *History of the Italian Theatre:* Mrs Welles.

Latin

Professors: Agnes Kirsopp Michels PHD *Chairman*
Myra L. Uhlfelder PHD¹

Assistant Professors: Russell T. Scott PHD
Richard Hamilton PHD

Instructor: Jon-Henri Damski MA

Prerequisites. An undergraduate major or minor, consisting of at least three years of Latin in college. All graduate students in Latin are expected to have begun the study of Greek.

Allied Subjects. The Department recommends as allied subjects: Greek, Classical Archaeology, Ancient History, Linguistics, or, for students whose special interest is in the Mediaeval period, Mediaeval History or a vernacular literature.

Language Requirements. French and German are required for both the M.A. and the Ph.D. Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College.

Program and Examination for the M.A. Candidates will normally offer two units of work in Latin and one unit, graduate or undergraduate, in an allied field. Students will normally complete the work for the degree in one year, but, in cases in which it seems advisable to supplement the student's undergraduate preparation, a second year may be necessary. Candidates must pass a test in Latin sight translation before being admitted to the Final Examination, which consists of a three-hour written and a one-hour oral examination.

Program and Examinations for the Ph.D. Candidates will normally complete a two-year program of four units of work in Latin and two in an allied field. Three of these units may be those offered for the M.A. degree, which usually forms part of the doctoral program. Candidates should then undertake a program of independent reading planned to enable them to pass the Preliminary Examination as soon as possible, after which they will concentrate on the dissertation. In some cases it may be advisable to carry one or two more units of work in the third year. The Preliminary Examination consists of: two four-hour written papers on Latin Literature; one four-hour written paper on a special field such as a particular period of Roman history, the works of a special author, Mediaeval Latin Literature, Epigraphy, Palaeography, the History of Classical Scholarship; one four-hour written paper in the field of the allied subject; a general

¹ On leave, semester II.

oral examination. Students whose major interest is in the Mediaeval period will take the two examinations in Latin Literature, one in Mediaeval Latin Literature, and a fourth in a field related to the Middle Ages or to the transmission of the Classics. Before admission to the Preliminary Examination, all students must pass tests in sight translation of Latin and Greek. The Final (oral) Examination will be on the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

Seminars will be offered in a sequence planned so that candidates for the doctorate will distribute their work over the following four groups. Seminars run for one semester unless noted.

Group I—*Republican and through the Augustan Age:*

Roman Comedy.

Elegy.

Lucretius.

Catullus.

Cicero's Letters and Orations.

Cicero's Philosophical Works.

Historiography from the Later Republic through the Augustan Age (two semesters).

Augustan Poetry (two semesters).

Group II—*Silver Age through the Antonine Period:*

Silver Age Poetry (two semesters).

Tacitus.

Roman Satire.

Petronius and Apuleius.

Group III—*Late Empire and Middle Ages:*

History of the Late Empire.

Literature of the Late Empire.

The Platonic Tradition in the West (Late Empire and Middle Ages).

Latin Literature of the Early Mediaeval Period (two semesters).

Latin Literature of the Twelfth Century (two semesters).

Group IV—

Proseminar: Background Reading.

The Classical Tradition: Scholarship and the Transmission of Texts (two semesters).

Roman Rhetoric (two semesters).

Roman Topography and Monuments.

SELECTED UNDERGRADUATE COURSES

[301a. *Vergil's Aeneid:* Mrs Michels.]

[301b. *Livy and Tacitus:* Mr Damski.]

302a. *Lucretius:* Mr Damski.

302b. *Cicero and Caesar:* Mr Scott.

Mathematics

Professors: John C. Oxtoby MA *Chairman*

Frederic Cunningham, Jr. PHD

Associate Professor: Ethan D. Bolker PHD¹

Assistant Professor: Martin Avery Snyder PHD

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 the subject as a whole. Certain courses in Physics, Chemistry or Philosophy (logic) are accepted as allied work.

Language Requirements. Candidates for the M.A. must have a reading knowledge of French, German or Russian. Candidates for the Ph.D. must pass examinations in two of the three: French, German, Russian.

Language skills will be tested either by the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service, or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twenty-four months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. The program consists of three units of work in Mathematics, or in Mathematics and an allied field, and an M.A. paper. 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 usually includes also an oral examination. The Final Examination is oral and is devoted to the candidate's special field and the subject of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

¹ On leave, 1971-72.

SEMINARS AND GRADUATE COURSES

At least three graduate courses or seminars are offered each year. Additional courses or 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.

Mr Bolker:

Geometry and Convexity.
Hilbert Space.
Topological Groups.
Banach Algebras.

Mr Cunningham:

Functional Analysis.
General Topology.
Linear Spaces.
Theory of Functions.

Mr Oxtoby:

Ergodic Theory.
Measure Theory.
Point Set Topology.
Theory of Functions.

Mr Snyder:

Applied Mathematics.
Numerical Analysis.
Partial Differential Equations.
Magneto-Hydrodynamics.

Journal Club. A Mathematical Colloquium at the University of Pennsylvania meets approximately every two weeks. Lectures by visiting mathematicians are frequently presented also at Haverford and Swarthmore Colleges.

SELECTED UNDERGRADUATE COURSES

- 210b. *Introduction to Numerical Analysis:* Mr Snyder and Mr Zimmerman.
301. *Advanced Calculus:* Mr Oxtoby.
- 303a. *Introduction to Abstract Algebra:* Mr Cunningham.
- [303b. *Topics in Algebra:* Mr Bolker.]
- [307. *Numerical Analysis:* Mr Snyder.]
- [308. *Introduction to Applied Mathematics:* Mr Snyder.]
- 310a. *Theory of Functions of a Complex Variable:* Mr Snyder.
- 312b. *Topology:* Mr Cunningham.
- [320. *Real Analysis:* Mr Oxtoby.]

Mediaeval Studies

Professor of Philosophy: Jean A. Potter PHD *Chairman*

Professor of English: Robert B. Burlin PHD

Professor of Spanish: Joaquín González Muela *D en F L*¹

Professor of History of Art: Charles Mitchell BLITT LITTD

Professor of History of Art: James E. Snyder PHD

Professor of Latin: Myra L. Uhlfelder PHD²

Associate Professor of History: Charles M. Brand PHD

Associate Professor of Music: Isabelle Cazeaux PHD³

Assistant Professor of German: James W. Scott PHD

Graduate work for the M.A. in the mediaeval field may be done either under a particular department or under the Mediaeval Studies Committee. Doctoral studies in the mediaeval 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 Mediaeval Studies.

Mediaeval work in a particular department will fall under the regulations of that department. For work under the Mediaeval 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 mediaeval field and have a reading knowledge of Latin and two modern languages.

Major and Allied Subjects. Any literature, ancient, mediaeval 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. Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

¹ On leave, semester I.

² On leave, semester II.

³ On leave, 1971-72.

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 mediaeval 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 mediaeval fields and one allied field, written and oral, will be required. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

See under the various Departments.

Music

Professor and Director of the Chorus:

Robert L. Goodale BMUS AAGO *Chairman*

Professor and Director of Ensemble Groups: Agi Jambor MA

Associate Professor: Isabelle Cazeaux PHD¹

Lecturer: Charlotte Roederer MPHIL

Instructor: Wilbert D. Jerome MMUS

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.

Allied Subjects. Any modern language or literature, History, History of Art, History of Religion, Philosophy.

¹ On leave, 1971-72.

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. Language skills will be tested by the examinations administered by Bryn Mawr College.

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.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

Mr Goodale:

Music of the Twentieth Century.
Theory of Music.

Mme Jambor:

The Interpretation of Music.

Mr Jerome:

The Symphony from Haydn to Brahms.

Miss Roederer:

The Musical History of Vienna.

SELECTED UNDERGRADUATE COURSES

201. *Romantic Music:* Mr Jerome.
 202. *Advanced Theory and Analysis:* Mr Goodale.
 203a. *Bach:* Mme Jambor.
 203b. *The Classical Period:* Mme Jambor.
 [205a. *Musical Criticism:* Miss Cazeaux.]
 301. *Music of the Twentieth Century:* Mr Goodale.
 302a. *Mediaeval and Early Renaissance Music:* Miss Roederer.
 302b. *Late Renaissance and Early Baroque Music:* Miss Roederer.
 303b. *Orchestration:* Mr Goodale.
 304b. *Interpretation of Music:* Mme Jambor.
 305. *Free Composition:* Mr Goodale.
 [306b. *Opera and Music Drama:* Miss Cazeaux.]

Philosophy

Professors: Milton C. Nahm BLITT PHD *Chairman*
José Maria Ferrater Mora Lic F L¹
George L. Kline PHD
Jean A. Potter PHD
Isabel S. Stearns PHD

Associate Professor: Mary Patterson McPherson PHD
Dean of the Undergraduate College

Assistant Professors: Michael Krausz PHD
George E. Weaver, Jr. PHD

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. For the M.A., one modern language. French and German for the Ph.D. In special cases, with the recommendation of the Department, a substitution may be made of one other modern language.

Language skills will be tested by the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

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.

Examination for the Ph.D. The Preliminary Examination consists of four written papers in the major and allied fields and an oral examination. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

¹ On leave, semester II.

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.*]

[*Ethics.*]

Kant.

A detailed study of the main themes of the *Critique of Judgment*.

Miss Stearns: *Metaphysics.*

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

[*Epistemology.*]

Mr Ferrater Mora: [*Philosophy of Language.*]

[*History of Philosophic Concepts.*]

Kant.

A detailed study of the main themes of the *Critique of Pure Reason*.

Mr Kline: [*Whitehead.*]

Hegel.

An intensive study of the *Phenomenology of Mind* and the *Philosophy of Right*.

[*Ethics.*]

Miss Potter: *Mediaeval Philosophy.*

Continental Rationalism.

A detailed study of Descartes and Spinoza.

[*Philosophy of Religion.*]

Mr Weaver: [*Logic.*]

[*Introduction to Set Theory and Logic.*]

Completeness and Decidability.

Comprehensive study of the problems of completeness and decidability for theories, their historical origins and significances, with emphasis on the work of Veblen, Tarski, Vaught, Craig, Robinson, Church and Gödel.

Mr Krausz: *Philosophy of History.*

A study of concepts of historical understanding, objectivity and value judgments in history, causal judgments in history, and the methodological individualism/holism controversy. Among the

speculative philosophers, the writings of Hegel, Marx, Spengler, Toynbee, and Niebuhr are examined.

[*Philosophy of Mind.*]

[*Theory of Inquiry.*]

Journal Club. Graduate students have the privilege of becoming auxiliary members of the Fullerton Club. The club meets once a month. Papers are read by members of the faculty of Bryn Mawr and by visiting lecturers, as well as by members of the faculties of nearby colleges and universities.

SELECTED UNDERGRADUATE COURSES

- 202a. *Plato*: Miss Stearns.
- 210b. *Mediaeval Philosophy*: Miss Potter.
- 212a. *Philosophy of Science*: Mr Krausz.
- 215a. *Kant*: Mr Ferrater Mora.
- 250a. *Logic*: Mr Weaver.
- 304a. *Russian Political Philosophy*: Mr Kline.
- 306a. *Existential Philosophy*: Mr Ferrater Mora.
- 307a. *Aesthetics*: Mr Nahm.
- 350d. *Concepts of Time*: Mr Kline.
- 352d. *Plato's Republic*: Mr Nahm.

Physics

Professors: Rosalie C. Hoyt PHD¹ *Chairman*

Walter C. Michels PHD

John R. Pruett PHD *Acting Chairman*

Assistant Professors: Alfonso Albano PHD

John R. Olson PHD

Prerequisites. An undergraduate major in Physics or in a field of study closely allied to Physics (e.g., Mathematics, Chemistry, Engi-

¹ On leave, 1971-72.

neering). 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 Aptitude Test and Advanced Test of the Graduate Record Examinations.

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 is accepted as adequate for the doctorate in Physics, then 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 Requirements. For the M.A. and the Ph.D. degrees, two languages are required; one, French, German or Russian; the second, "computer language," including FORTRAN. Language skills will be tested by the examinations administered by Bryn Mawr College.

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 Examinations 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. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

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 Michels: *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 Albano, Mr Pruett: *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:

Mr Olson, Miss Hoyt: *Chemical Physics and Biophysics*.

Interatomic and intermolecular forces, vibrational and rotational states of molecules, energy transfer through collisions. Dynamical properties of biological membranes, the biophysics of photosynthesis and photosensitive receptors. 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.

Mr Albano: *Statistical Mechanics*.

Classical kinetic theory and transport phenomena. Ensembles in classical and quantum statistical mechanics. Selected applications. Prerequisite: Quantum Mechanics.

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

SELECTED UNDERGRADUATE COURSES

301a. *Classical Mechanics*: Mr Olson.

303b. *Thermal Properties of Matter*: Mr Olson.

304. *Introduction to Theoretical Physics*: Mr Michels.

Political Science

The Caroline McCormick Slade Department of Political Science

Professors: Melville T. Kennedy, Jr. PHD *Chairman*

Gertrude C. K. Leighton AB JD¹

President of the College: Harris L. Wofford, Jr. A B LL B

Associate Professor: Charles E. Frye PHD²

Assistant Professors: Marc H. Ross PHD

Stephen Salkever PHD

Prerequisites. A good undergraduate training in political science and related subjects.

Major and Allied Fields. The major fields offered in political science are political philosophy and theory, western comparative politics,

¹ On partial leave, semester I.

² On leave, semester II.

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. One modern foreign language for the M.A. Two foreign languages (only one need be modern), or one modern language and statistics for the Ph.D. Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. The statistics requirement may be satisfied by passing an approved course in Statistics.

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 written. These fields are tested by preliminary written and oral examination. The dissertation is defended in the oral examination.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS

Mr Frye:

European Comparative Politics.

Mr Kennedy:

International Politics.

Topics in Politics of China, Japan, India.

Miss Leighton:

International Law.

Law, Psychodynamic Theories of Personality and Psychiatry.

Mr Ross:

American Politics.

Urban Politics.

Mr Salkever:

[*Constitutional Law.*]

Topics in Normative and Empirical Theory.

SELECTED UNDERGRADUATE COURSES

218a. *Community Politics:* Mr Ross.

230b. *Political Behavior:* Mr Ross.

301a. *Law and Society:* Miss Leighton.

- 302b *Law, Policy and Personality*: Miss Leighton.
 303a. *Problems in International Politics*: Mr Kennedy.
 304b. *West European Integration*: Instructor to be announced.
 [307b. *Modern Germany*: Mr Frye.]
 310a. *Problems in Comparative Politics*: Mr Frye.
 311b. *Theory and Practice in Political Philosophy*: Mr Salkever.
 312b. *China, Japan and India: Problems in Modernization*: Mr Kennedy.
 [313b. *Problems in Constitutional Law*.]
 316b. *Ethnic Group Politics: Concepts and Process*: Mr Ross.

Psychology

Professors: Richard C. Gonzalez PHD *Chairman*¹
 Howard S. Hoffman PHD

Adjunct Professor: Larry Stein PHD

Associate Professor: Matthew Yarczower PHD

Assistant Professors: Clark McCauley PHD
 Earl Thomas PHD

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 Aptitude Test and Advanced Tests of the Graduate Record Examinations.

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, Chemistry, Mathematics, Philosophy and Physics.

Language Requirements. Candidates for the M.A. must pass an examination in one of the following languages: French, German, Russian. Candidates for the Ph.D. must offer two foreign languages: French and German (or some other foreign language with permission of the Department), or one foreign language and statistics. The

¹ On leave, semester I.

statistics requirement will be tested by the Department. Language skills will be tested by the examinations administered by 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. 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. Ph.D. candidates are expected to devote a large portion of their time to supervised research. In the first year, the research is done under the close supervision of the candidate's faculty advisor; a written report of the year's research activities (the form and content of which are determined by the candidate and his advisor) is submitted to the Department; and an oral examination dealing with the paper and related topics is conducted by the candidate's advisor and at least three other members of the Department. In addition to research, candidates, in their first two years of residence, take the five one-semester graduate courses listed below (or, if they elect to do so, a written examination in the subject matter instead of any one or all of the courses). The Preliminary Examination, which should be taken before the beginning of the third year, consists of three written examinations of four hours each and an oral examination of one to two hours. The written examinations are in the following areas: Learning and Motivation, Physiological Psychology, and Social Psychology. The oral examination involves a defense by the candidate of a research proposal he has prepared and submitted in advance of the examination. Work beyond the Preliminary Examination consists of seminars in selected topics and of dissertation research. The Final Oral Examination deals with the dissertation and the field in which it was written.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

GRADUATE COURSES

Mr Gonzalez:

Learning Theory.

Mr Hoffman:

Statistics.

Instrumentation in Psychology.

Mr McCauley:

Experimental-Social Psychology.

Mr Stein and Mr Thomas:

Physiological Psychology.

SEMINARS

Seminars are offered on specialized topics in the areas of experimental, physiological and social psychology.

SELECTED UNDERGRADUATE COURSES

- 201a. *Comparative Psychology*: Mr Yarczower.
 201b. *Animal Learning*: Mr Gonzalez.
 202a. *Motivation*: Mr Hoffman.
 202b. *Human Conceptual Behavior*: Mr Yarczower.
 301a. *Physiological Psychology*: Mr Thomas.

Russian

Professor: Frances de Graaff PHD *Chairman*

Associate Professor: Ruth L. Pearce PHD

Assistant Professor: Irene Nagurski PHD

Professor of Philosophy: George L. Kline PHD

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. For the M.A., French or German. For the Ph.D., French, German and one Slavic language other than Russian. Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

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,

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and an oral examination. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS

Seminars offered are selected from the following:

Miss de Graaff:

Serbo-Croatian Language and Literature.
Pushkin and Lermontov.
Chekhov and Gorki.

Miss Nagurski:

Polish Language and Literature.
Tolstoy and Turgenev.

Mrs Pearce:

History of the Russian Language.
Old Church Slavonic.

Mr Kline:

Russian Philosophy.

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:* Miss de Graaff.
305. *Advanced Russian Grammar:* Mrs Pearce.

Sociology

Professor: Eugene V. Schneider PHD *Chairman*

Assistant Professors: William R. F. Phillips PHD
Judith R. Porter PHD

Lecturer: Robert E. Washington MA

Prerequisites. An 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.

Major and Allied Subjects. Students may wish to take some work in related fields: Anthropology, Economics, Psychology, Political Science, 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.

Language and Statistics Requirement. Candidates for the M.A. must offer one modern language and Statistics. Candidates for the Ph.D. degree must offer two modern foreign languages (usually French and German) or one modern foreign language and Statistics. The statistics requirement will be tested by the Department, or may be met by passing a graduate course in Statistics.

Language skills will be tested by the examinations administered by Bryn Mawr College. Entering students may offer scores of the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service taken within twelve months of the date on which they begin graduate work at Bryn Mawr College.

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 Examination for the Ph.D. 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 General Sociology, Sociological Theory, and two special fields, one of which may be an allied field. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS

Seminars will be given in special branches of Sociology, such as:

<i>Sociological Theory</i>	<i>Industrial Sociology</i>
<i>Social Stratification</i>	<i>Race Relations</i>
<i>Sociology of Religion</i>	<i>Sociology of Poverty</i>
<i>Personality and</i>	<i>Political Sociology</i>
<i>Social Structure</i>	<i>Sociology of Developing</i>
<i>Sociology of Knowledge</i>	<i>Countries</i>

SELECTED UNDERGRADUATE COURSES

- 207a. *Race Relations*: Mrs Porter.
- 208b. *Personality and Social Structure*: Mr Schneider.
- 218a. *Sociology of Developing Countries*: Mr Washington.
- 220a. *Political Sociology*: Mr Phillips.
- 240a. *Urban Sociology*: Mr Phillips.

Spanish

Professors: Willard F. King PHD *Chairman*
Joaquín González Muela D en FL¹

Associate Professor: Phyllis Turnbull D en FL

Assistant Professor: Eleanor K. Paucker PHD

Visiting Lecturer: Raymond S. Willis PHD

Professor of Philosophy: José Maria Ferrater Mora Lic FL²

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 Aptitude Test and Advanced Test of the Graduate Record Examinations.

Allied Subjects. Any literature, ancient or modern, including Mediaeval Latin Literature; European or Spanish-American History; Classical or Romance Philology; Spanish-American Literature.

Language Requirements. For the M.A. either German or one Romance language other than Spanish. 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 must be included in the graduate program.

Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. The program consists of three units of graduate work in Spanish or two units of graduate work in Spanish and one other 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

¹ On leave, semester I.

² On leave, semester II.

to work on the dissertation. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS

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:

The Mediaeval Castilian Epic and Lyric.

Topic for 1971-72: *El libro de buen amor* (semester I).

The History of the Spanish Language (semester II).

[*Ideological Currents in Renaissance Spain.*]

[*Cervantes: Drama, Poetry and Novel* (with the exception of *Don Quijote*).]

[*Prose Fiction of the Golden Age.*]

[*Poetry of the Golden Age.*]

Studies in the Golden Age Theater.

Topic for 1971-72: Lope de Vega (semester I).

[*The Eighteenth Century.*]

[*Studies in Modern Spanish Literature.*]

Studies in Spanish American Literature.

Topic for 1971-72: The Mexican Novel (semester I).

The Argentine Novel (semester II).

Critical Approaches to Literature (semester II).

SELECTED UNDERGRADUATE COURSES

302a. *Mediaeval Spanish Literature*: Miss Turnbull.

303a. *The Modern Novel in Spain and Spanish America*: Mrs King.

303b. *Modern Poetry in Spain and Spanish America*:

Mr González Muela.

[304a. *Poetry and Drama of the Golden Age*: Mrs King.]

[304b. *Cervantes*: Mrs King.]

Fees

Application (payable by citizens of the United States and Canada and foreign students living in the United States) \$15.

Tuition

Full-time students: \$2100 a year.

Part-time students: \$700 a year (or \$350 a semester) for each academic unit.

Course in Reading German: \$25 a semester.

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

Continuing enrollment for Ph.D. candidates: Candidates who have completed the required academic units, including a dissertation unit, and who are continuing independent work on their dissertations either in the vicinity of Bryn Mawr College or in other places must retain their enrollment and degree candidacy by registering for one or more units each semester or by paying a continuing enrollment fee of \$50 each semester. Such students may, with the approval of their department, apply to the Council of the Graduate School of Arts and Sciences for a leave of absence for one or more semesters. No fee is required while on leave of absence.

Payment of Fees

No reduction or refund of the tuition fee will be made on account of absence, illness or withdrawal after classes have begun, dismissal or for any other reason, except involuntary service in the armed forces of the United States.

Students whose fees are not paid before October 1 in the first semester and before February 15 in the second semester will not be permitted to continue in residence or to attend classes. Degrees will not be awarded to any student owing money to the College, Book Shop, or other college facility.

The Education Plan of monthly payment in cooperation with the Bryn Mawr Trust Company is available for those who prefer to pay fees in monthly installments. Direct correspondence to the Comptroller of the College.

Summary of Expenses for the Academic Year

Regular

Tuition Fee	\$2100
Residence in graduate student housing	1350

Contingent

Application fee	\$ 15
Continuing Enrollment Fee	100
Course in Reading German	50
Dispensary Fee	25
Health Insurance (United States citizens)	30
Health Insurance (foreign students)	45
Graduation Fee for all Graduate Degrees	25
Charge for Microfilming Ph.D. Dissertation	30
Late Registration Fee	10

Exclusion

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 Graduate Scholarships

Fellowships and graduate scholarships are provided from the general funds of the College, from the gifts of alumnae and other generous donors, and from government agencies and private foundations. The majority of these awards are made on the basis of an annual competition. Many of these awards are available to both men and women. Some may be granted only to women. Fellowships carry a stipend of \$2000 in addition to tuition and are available only to students who are citizens of the United States or Canada and who have completed one full year of graduate work. Graduate scholarships have a value of \$1500 in addition to tuition and may be held by citizens and non-citizens and by students at all levels of graduate work. Other awards vary in value.

Application

Application from citizens of the United States and Canada should be made to the Dean of the Graduate School of Arts and Sciences and must be filed complete not later than February 1. In writing for forms applicants should state their fields of concentration. Applications from foreign students must be received not later than January 25. Scores of the Test of English as a Foreign Language or the examination of the English Language Institute of the University of Michigan must be included. Therefore the TOEFL must be taken by the previous October (see page 7).

All awards will be announced in March.

Fellowships in the Award or Nomination of the College

Bryn Mawr College Fellowships of \$2000 in addition to tuition are offered annually in Anthropology, Biology, Chemistry, Classical and Near Eastern Archaeology, Economics, Education and Child Development, English, French, Geology, German, Greek, History, History and Philosophy of Science, History of Art, Latin, Mathematics, Mediaeval Studies, Music, Philosophy, Physics, Political Science, Psychology, Russian, Sociology, and Spanish.

Marion Louise Ament Fellowship. Graduate fellowships in Spanish are occasionally awarded from the fund established in 1966 in honor of Marion Neustadt, Class of 1944.

The Theodore N. Ely Fund. A fellowship or scholarship in Art or Archaeology is awarded to a woman graduate student from the inter-

est on this fund, which was established in 1959 by bequest of Katrina Ely Tiffany, Class of 1897.

The Margaret Gilman Fund. A 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 Howard Lehman Goodhart Fellowship is awarded to an advanced student, man or woman, in Mediaeval Studies.

The Helen Schaeffer Huff Memorial Research 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.

The S. Maude Kaemmerling Scholarship was established in 1959 by 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 for men and women.

The Samuel H. Kress Foundation Fellowships in varying amounts are awarded to advanced men and women graduate students in History of Art.

The Katharine Elizabeth McBride Fellowship. In the 75th Anniversary Year a fund for a graduate fellowship in honor of Katharine McBride was established by certain 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 woman candidate for the Ph.D. degree who is about to complete two years or more of graduate work.

National Defense Graduate Fellowships under Title IV of the National Defense Education Act are available to citizens and nationals of the United States and those who have obtained a permanent visa, who plan to work for the Ph.D. degree and to enter a career of college teaching. These fellowships, designed primarily for first- or second-year students, men and women, may be held in the Departments of Biology, Chemistry, Classical and Near Eastern Archaeology, Eng-

lish, French, Greek, History, History of Art, Latin, Mathematics, Philosophy, Psychology and Spanish.

National Science Foundation Biochemistry Development Fellowships and a *Bryn Mawr College Fellowship* are awarded to men and women within the Departments of Biology and Chemistry who are following a program in Biochemistry.

National Science Foundation Graduate Traineeships. Traineeships are available to United States citizens and nationals, first-year and advanced graduate students, men and women, in mathematics, the natural sciences and certain fields in the social sciences.

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.

The Ida H. Ogilvie Fellowships in Geology are awarded to men and women 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 public 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 woman graduate student working toward the doctorate. This award may be made to a beginning graduate student.

Scholarships and Fellowships under the Plan for the Coordination of the Sciences. The departments of the natural sciences and mathematics administer a fund for the Coordination of the Sciences, given to the College in 1935 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.

From this fund, the Committee for the Coordination of the Sciences awards fellowships, scholarships, assistantships, post-doctoral research fellowships or other grants as seem appropriate.

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.

Travelling Fellowships

The Fanny Bullock Workman Travelling Fellowship for a year of study or research abroad was established in 1927 by request of Fanny Bullock Workman and by gift of her husband, Dr. W. Hunter Workman. It is awarded to a woman who is a candidate for the degree of Doctor of Philosophy at Bryn Mawr College and 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 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 to a woman who has completed at least one year of graduate study at Bryn Mawr College, and who shows ability to conduct independent investigations in the fields of Teutonic Philology or German Literature. 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 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.

Graduate Scholarships

Bryn Mawr College Graduate Scholarships of \$1500 each in addition to tuition are offered annually to men and women for work in any department of the Graduate School of Arts and Sciences.

Alumnae Association Scholarships. Alumnae Association Scholarships are provided from the contributions of former graduate students to the Alumnae Fund and from District III of the Alumnae Association.

Scholarships for Foreign Students. These scholarships are designated for foreign students who have excelled in their university studies. Applicants must have had three or four years of university training. Each scholarship carries a stipend which covers full tuition and residence in graduate student housing during the academic year. (Meals during vacations are not included and students will need to provide their own funds for these and other expenses.) Scholarship holders are expected to carry a full program of graduate work and to attend regularly the courses for which they are registered. Work is given in

seminars or 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.

The Marguerite N. Farley Scholarships for Foreign Students, of the value of \$1500 each in addition to tuition, are offered to students from any country outside the United States and Canada. Occasionally a fellowship is awarded from this fund to a foreign student who has completed at least one year at Bryn Mawr.

A special British Scholarship, of the value of \$1500 in addition to tuition, is awarded to students from the United Kingdom sponsored by The English-Speaking Union.

Special Foreign Scholarships for French, German, Italian and Spanish, of \$1600 each in addition to tuition, have been established for students whose languages form a 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 made in memory of Miguel Catalan, distinguished Spanish physicist and friend of Bryn Mawr.

Duties of Fellows and Scholars

Fellows and Graduate Scholars are required to carry a full academic program at Bryn Mawr College. They are expected to attend official functions and to perform a limited amount of service for the College. Fellows are not permitted to accept other appointments. Scholars, with the permission of the Dean of the Graduate School of Arts and Sciences, may undertake a limited amount of paid work. Each Travelling Fellow is asked to present a written report of the work done during the fellowship year. This report should be sent about the first of March to the Dean of the Graduate School of Arts and Sciences for transmittal to the student's department.

Graduate Assistantships

Teaching Assistantships are available in many Departments. These positions carry salaries of \$2500-\$2700 for half-time work, \$1700-\$1800 for one-third time work, and include tuition without fee. The duties differ with departments. In departments of science, assistantships provide teaching and laboratory experience.

Research Assistantships are available in the Departments of Biology, Chemistry, Physics and Psychology.

Internships and Field Work Placements. The Department of Education and Child Development offers each year one internship, with stipend, in school psychology. The intern is placed in the Child Study Institute and receives individual supervision there. Supervised practicum experience at the Institute is also available, usually without stipend.

Supervised field work placements, with stipend, are available in school counseling. These are open to advanced, highly qualified candidates in the school counseling program sequence. Supervised practicum experience in counseling is also available, usually without stipend.

Tuition Grants

Tuition grants are available for full-time and part-time students. Gifts from District II of the Alumnae Association and the Bryn Mawr Club of Baltimore have increased the number of these grants to women.

A grant from the Samuel S. Fels Fund, for three years beginning in 1971, has augmented the funds available for men and women who are unable to undertake full-time work.

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.

Loan Funds

National Defense Student Loan Program—NDEA Title II. Loans up to \$2500 a year are available to qualified graduate students under this Title. They are open to students registered for at least two units of graduate work. Partial loan cancellation is offered to prospective teachers. Applications are due April 1 for consideration in the spring and September 1 for loans to be made in the early fall.

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was established 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 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 Office of Admissions and Awards of the Graduate School of Arts and Sciences.

The Mary Hill Swope Loan Fund was established June 1, 1945 by a gift of Mrs. Gerard Swope (Mary Hill, A.B. 1896) to assist in the education of young women attending Bryn Mawr College. Except under extraordinary circumstances, the maximum amount which may be borrowed annually is \$500. No interest is charged while the student is at Bryn Mawr. The interest rate is three per cent, to be paid after the student leaves Bryn Mawr. The principal is to be repaid within five years from the time the student leaves Bryn Mawr at the rate of twenty per cent each year.

The Gerard and Mary Hill Swope Loan Fund was established in 1962 and is available for men and women. The maximum amount which can be borrowed for any given academic year is \$500. Arrangement for repayment is similar to that for the Mary Hill Swope Loan Fund, listed above.

Office of Career Planning and Placement

The Office of Career Planning and Placement is concerned with student and alumni career, summer, and self-help job interests.

Graduate students may consult on careers to match their interests and experience, for information on specific employers and current job openings, and on techniques of job-hunting. Career Planning and Placement also collects, maintains, and makes available to employers, credentials including biographical data and faculty and employer references for those who register with the office.

Students may also obtain part-time employment during the year both on- and off-campus through this office. Some of the jobs available are clerical, library work, typing, waitressing, childcare, and sales. Information on summer jobs is collected and a newsletter on summer opportunities sent out to students periodically. The staff of the office is available for consultation on any of these programs.

Government regulations severely limit the employment of students of foreign citizenship in the United States.

Graduate Student Council

The Graduate Student Council, composed of one elected representative from each department offering a graduate program, serves as a vehicle through which graduate students may voice their concerns and needs to the faculty and administration. When appropriate, the council also carries out specific programs to meet these needs.

Graduate students work primarily in one department, so that the council provides a means of communicating with students in all departments. Council meetings are held at least once a month in the Graduate Lounge located in the M. Carey Thomas Library. Graduate student opinion is sometimes solicited through questionnaires, so that the council may best represent various opinions.

The council works through committees such as those concerned with the Library and with graduate student housing. In addition, representatives of the council sit on various college committees.

Graduate Student Housing

Housing on campus is provided for about sixty graduate students in the Graduate Residence Center and Batten House. There is a separate bedroom for each student with the exception of a few double rooms in Batten House which can accommodate married couples. Rooms are furnished except for rugs and curtains. Blankets are provided but students should bring towels and bed linen. (Local rental services will supply sheets and pillowcases for a modest fee. Arrangements can be made on arrival.) Because of college fire regulations, smoking is not permitted in the bedrooms. There are smokers on certain floors. The dining room, available to all resident students, is located in the Center.

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 to the Office of the Graduate School of Arts and Sciences with a deposit of ten dollars. The deposit will be deducted from the residence fee; it will be refunded only if the student cannot be accommodated or has been called into service in the armed forces of the United States.

A student who has reserved a room will be held responsible for the residence charge unless notice of withdrawal is sent in writing to the Dean of the Graduate School of Arts and Sciences before August 15, or unless he is drafted for military service.

The regular charge for residence (room, board and health service) for graduate students is \$1350 a year, payable one half early in the first semester and the other half early in the second. Residence on campus is provided from the opening of College in the fall until Commencement Day; but meals are not served, and health service is not available during Christmas and spring vacations. Baggage will be accepted at the College after August 30. It should be sent prepaid, addressed to the proper residence hall, and marked with the owner's name.

Health

Medical Services

The College maintains an 18-bed infirmary with a staff of physicians and nurses. The Infirmary is open when College is in session. The college physicians may be consulted without charge by students residing in campus housing and by students living off campus 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 residence charge paid by graduate students living in campus housing entitles them 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 the 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 \$15.00 for each day in the Infirmary. In case of contagious disease, if special nursing is necessary, the student must meet the expense.

Graduate students who do not live in campus housing may pay a \$25.00 fee which entitles them to dispensary care and consultation with the college physicians. The fee is not billed automatically and is not covered by scholarship or other grants. The dispensary fee is to be paid in the Comptroller's Office where a dispensary card is issued. Non-resident students are not given bed care in the Infirmary except under exceptional conditions at a charge of \$15.00 per day.

The College maintains a counseling and diagnostic service staffed by a social worker, psychologist and three psychiatrists. They are at the Infirmary on a part-time basis. All students eligible for dispensary care may use this service. The counseling service offers confidential consultation and discussion of personal and emotional problems. Definitive and long range psychotherapy is not available. A charge is made for visits in excess of five.

Medical Requirements

All graduate students, after admission, must file a medical history and health evaluation form with the Infirmary. There are no exceptions to this rule.

In addition to a statement of health, signed by a physician, the following are required: small pox vaccination within 3 years of ad-

mission; current tetanus and polio immunizations; proof of freedom from active tuberculosis based on either a negative skin test to tuberculosis, or in the presence of a positive test, a normal chest x-ray within 6 months of admission.

Insurance

All graduate students of Bryn Mawr College are entitled to subscribe to the Student's Health Care Plan, which provides for a substantial proportion of hospital care and medical fees. The premium for this insurance is \$30.00 for a full year starting in September. Students should apply to the Comptroller of the College.

Foreign Students. The College also makes available a policy which provides fuller coverage of medical, surgical, and hospital costs. This insurance is required of all 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 \$45.00 for a twelve-month period, starting in September.

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¹⁶ Mrs John E. Lippmann
¹⁷ Mrs Daniel V. McNamee, Jr.
¹⁸ Mrs Talbot Aldrich

Faculty and Staff of the Graduate School of Arts and Sciences

for the Academic Year 1971-72

Harris Llewellyn Wofford, Jr., AB (University of Chicago) LL B
(Howard University and Yale University) *President of the College*

Katharine Elizabeth McBride PH D (Bryn Mawr College) LL D LH D
LITT D SC D *President Emeritus of the College*

Elizabeth Read Foster PH D (Yale University) *Dean of the Graduate School of Arts and Sciences*

Mary Patterson McPherson PH D (Bryn Mawr College) *Dean of the Undergraduate College*

Bernard Ross PH D (University of Michigan) *Dean of the Graduate School of Social Work and Social Research*

Phyllis S. Lachs PH D (Bryn Mawr College) *Assistant Dean of the Graduate School of Arts and Sciences*

Mabel L. Lang PH D (Bryn Mawr College) *Secretary of the General Faculty*

Mary Maples Dunn PH D (Bryn Mawr College) *Secretary of the Faculty of Arts and Sciences*

Mark B. Adams MA (Harvard University) *Lecturer in the History of Science*, on joint appointment with the University of Pennsylvania¹

Alfonso M. Albano PH D (State University of New York at Stony Brook) *Assistant Professor of Physics*

Charles Altman MA (Duke University) *Lecturer in French*

Horace Alwyne F R M C M (Royal Manchester College of Music) *Professor Emeritus of Music*

Jay Martin Anderson PH D (Harvard University) *Associate Professor of Chemistry*¹

Hans Bänzinger PH D (University of Zurich) *Professor of German*

Ernst Berliner PH D (Harvard University) *W. Alton Jones Professor of Chemistry*

Frances Bondhus Berliner PH D (Bryn Mawr College) *Lecturer in Chemistry*

Eleanor A. Bliss SC D (Johns Hopkins University) *Dean Emeritus*

Ethan D. Bolker PH D (Harvard University) *Associate Professor of Mathematics*²

Charles M. Brand PH D (Harvard University) *Associate Professor of History*

¹ On leave, semester I, 1971-72.

² On leave, 1971-72.

BRYN MAWR COLLEGE

- Robert B. Burlin PH D (Yale University) *Professor of English*
- Robert H. Butman MA (University of North Carolina) *Professor of English in the Performing Arts on the Theresa Helburn Fund and Director of the Theatre*, on joint appointment with Haverford
- Rhys Carpenter PH D (Columbia University) LITT D *Professor Emeritus of Classical Archaeology*
- Isabelle Cazeaux PH D (Columbia University) *Associate Professor of Music*¹
- Cicily Chapman-Andresen D PHIL (University of Copenhagen) *National Science Foundation Senior Foreign Scientist and Visiting Lecturer in Biology*
- Robert L. Conner PH D (Indiana University) *Professor of Biology*
- Rachel D. Cox PH D (University of Pennsylvania) *Professor Emeritus of Education and 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*
- Maurice Pierre Crosland PH D (University of London) *Visiting Lecturer in the History of Science*
- Charles A. Culotta PH D (University of Wisconsin) *Assistant Professor of the History of Science*, on joint appointment with the University of Pennsylvania
- Roger W. Cummins PH D (University of Minnesota) *Assistant Professor of English*¹
- Frederic Cunningham, Jr. PH D (Harvard University) *Professor of Mathematics*
- Jon-Henri Damski MA (University of Washington) *Lecturer in Latin*
- Gérard Defaux Agrégé (Sorbonne) *Associate Professor of French*
- Frances de Graaff PH D (University of Leyden) *Professor of Russian*
- Frederica de Laguna PH D (Columbia University) *Professor of Anthropology*
- Grace Mead Andrus de Laguna PH D (Cornell University) *Professor Emeritus of Philosophy*
- Charles G. Dempsey PH D (Princeton University) *Associate Professor of History of Art*
- Gregory W. Dickerson MA (Princeton University) *Assistant Professor of Latin and Greek*
- Max Diez PH D (University of Texas) *Professor Emeritus of German Literature*

¹ On leave, 1971-72.

- Nancy C. Dorian PHD (University of Michigan) *Assistant Professor of German*²
- Lincoln Dryden PHD (Johns Hopkins University) *Professor Emeritus of Geology*
- Richard B. Du Boff PHD (University of Pennsylvania) *Associate Professor of Economics*¹
- Arthur P. Dudden PHD (University of Michigan) *Professor of History*
- Harmon C. Dunathan PHD (Yale University) *Visiting Lecturer in Biology and Chemistry*
- Mary Maples Dunn PHD (Bryn Mawr College) *Associate Professor of History and Secretary of the Faculty of Arts and Sciences*
- Noel J. J. Farley PHD (Yale University) *Associate Professor of Economics*
- Charles Ghèquière Fenwick PHD (Johns Hopkins University) LL D *Professor Emeritus of Political Science*
- José Maria Ferrater Mora *Licenciado en Filosofía* (University of Barcelona) *Professor of Philosophy*²
- Marie G. Flaherty PHD (Johns Hopkins University) *Associate Professor of German*
- Elizabeth Read Foster PHD (Yale University) *Dean of the Graduate School of Arts and Sciences and Professor of History*
- Grace Frank AB (University of Chicago) *Professor Emeritus of Old French*
- Charles E. Frye PHD (Princeton University) *Associate Professor of Political Science*²
- Mary Summerfield Gardiner PHD (Bryn Mawr College) *Professor Emeritus of Biology*
- Robert Gaston DPHIL (University of London) *Lecturer in History of Art*
- Richard C. Gonzalez PHD (University of Maryland) *Professor of Psychology*¹
- Joaquin González Muela *D en FL* (University of Madrid) *Professor of Spanish*¹
- Jane C. Goodale PHD (University of Pennsylvania) *Associate Professor of Anthropology*
- Robert L. Goodale AB BMUS (Yale University) AAGO *Alice Carter Dickerman Professor of Music*
- Michel Guggenheim PHD (Yale University) *Professor of French*¹
- Richard Hamilton PHD (University of Michigan) *Assistant Professor of Greek and Latin*

¹ On leave, semester I, 1971-72.

² On leave, semester II, 1971-72.

FACULTY AND STAFF

- Patrick Henry PHD (Yale University) *Visiting Lecturer in History of Religion*
- Howard S. Hoffman PHD (University of Connecticut) *Professor of Psychology*
- Janet L. Hoopes PHD (Bryn Mawr College) *Professor of Education and Child Development and Director of the Child Study Institute*
- Rosalie C. Hoyt PHD (Bryn Mawr College) *Professor of Physics¹*
- Joshua C. Hubbard PHD (Harvard University) *Professor of Economics*
- Helen Manning Hunter PHD (Radcliffe College) *Lecturer in Economics*
- Thomas Jackson PHD (Yale University) *Associate Professor of English¹*
- Agi Jambor MA (Royal Academy of Budapest) *Professor of Music and Director of Ensemble Groups*
- Katherine Janowitz MA (Columbia University) *Instructor in English*
- Lillian Jeffery PHD (Oxford University) *Katharine E. McBride Visiting Professor of Classical Archaeology and Greek*
- Wilbert D. Jerome MMUS (Temple University) *Instructor in Music*
- Myra Richards Jessen PHD (Bryn Mawr College) *Professor Emeritus of German*
- M. Pauline Jones PHD (Bryn Mawr College) *Associate Professor of French*
- Anthony R. Kaney PHD (University of Illinois) *Assistant Professor of Biology*
- Howard C. Kee PHD (Yale University) *Rufus Jones Professor of History of Religion*
- Melville T. Kennedy, Jr. PHD (Harvard University) *Professor of Political Science*
- Philip A. Kilbride MA (Pennsylvania State University) *Assistant Professor of Anthropology*
- Willard F. King PHD (Brown University) *Professor of Spanish*
- George L. Kline PHD (Columbia University) *Professor of Philosophy*
- June Q. Koch PHD (Columbia University) *Assistant Professor of English*
- Sandra I. Kohler PHD (Bryn Mawr College) *Assistant Professor of English and Dean of the Class of 1974*
- Charles C. Kolb MA (Pennsylvania State University) *Lecturer in Anthropology*
- Mary Jo Koroly PHD (Bryn Mawr College) *Lecturer in Biology*

¹ On leave, 1971-72.

BRYN MAWR COLLEGE

- Joseph Kramer PHD (Princeton University) *Associate Professor of English*
- Michael Krausz PHD (University of Toronto) *Assistant Professor of Philosophy*
- Phyllis S. Lachs PHD (Bryn Mawr College) *Assistant Dean of the Graduate School of Arts and Sciences and Lecturer in History*
- Samuel Tobias Lachs PHD (Dropsie College) *Associate Professor of History of Religion*
- Catherine Lafarge PHD (Yale University) *Assistant Professor of French*
- Barbara M. Lane PHD (Harvard University) *Associate Professor of History*
- Mabel L. Lang PHD (Bryn Mawr College) *Paul Shorey Professor of Greek and Secretary of the General Faculty*
- Richmond Lattimore PHD (University of Illinois) *LITTD Professor Emeritus of Greek*
- Robert Lee MA (University of London) *Lecturer in English*
- Marguerite Lehr PHD (Bryn Mawr College) *Professor Emeritus of Mathematics*
- Gertrude C. K. Leighton AB (Bryn Mawr College) JD (Yale University) *Professor of Political Science*¹
- Anthony J. Litwinko MA (University of Pennsylvania) *Lecturer in English*
- Adrienne R. Lockhart MA (University of Sydney) *Lecturer in English*
- Angeline H. Lograsso PHD (Radcliffe College) *Professor Emeritus of Italian*
- Irma S. Lustig PHD (University of Pennsylvania) *Lecturer in English*
- Frank B. Mallory PHD (California Institute of Technology) *Professor of Chemistry*
- Helen Taft Manning PHD (Yale University) *Professor Emeritus of History*
- Arthur S. Marks PHD (University of London) *Assistant Professor of History of Art*²
- Mario Maurin PHD (Yale University) *Professor of French*³
- Ethel W. Maw PHD (University of Pennsylvania) *Professor of Education and Child Development*
- Susan E. Maxfield MS (Syracuse University) *Associate Professor of Education and Child Development and Director of the Thorne School*

¹ On partial leave, semester I, 1971-72.

² On leave, 1971-72.

³ On leave, semester II, 1971-72.

BRYN MAWR COLLEGE

- Katharine Elizabeth McBride PHD (Bryn Mawr College) LLDLHD
LITTDSCD *President Emeritus of the College*
- Clark McCauley, Jr. PHD (University of Pennsylvania) *Assistant
Professor of Psychology*
- Russell K. McCormmach PHD (Case Western Reserve University)
Visiting Lecturer in the History of Science
- Mary Patterson McPherson PHD (Bryn Mawr College) *Dean of the
Undergraduate College and Associate Professor of Philosophy*
- Cornelia Lynde Meigs AB (Bryn Mawr College) *Professor Emeritus
of English Composition*
- Machteld Mellink PHD (University of Utrecht) *Professor of Classi-
cal and Near Eastern Archaeology*
- Fritz Mezger PHD (University of Berlin) *Professor Emeritus of
Germanic Philology*
- Agnes Kirsopp Michels PHD (Bryn Mawr College) *Professor of
Latin, Andrew W. Mellon Foundation Professor of Humanities*
- Walter C. Michels PHD (California Institute of Technology) *Marion
Reilly Professor of Physics*
- Charles Mitchell MABLITT (Oxford University) LITTD *Professor of
History of Art*
- Irene Nagurski PHD (Columbia University) *Assistant Professor of
Russian*
- Milton Charles Nahm BLITT (Oxford University) PHD (University
of Pennsylvania) *Leslie Clark Professor of Philosophy*
- Carl Nylander PHD (Uppsala University) *Associate Professor of
Classical and Near Eastern Archaeology*
- John R. Olson PHD (Iowa State University) *Assistant Professor of
Physics*
- Jane M. Oppenheimer PHD (Yale University) *Class of 1897 Pro-
fessor of Biology*
- Joseph Orkwiszewski PHD (Bryn Mawr College) *Lecturer in Biology*
- John C. Oxtoby MA (University of California) *Professor of Mathe-
matics*
- Nicholas Patruno MA (Rutgers University) *Lecturer in Italian*
- Eleanor K. Paucker PHD (University of Pennsylvania) *Assistant
Professor of Spanish*
- Ruth L. Pearce PHD (University of Pennsylvania) *Associate Pro-
fessor of Russian*
- Emmy A. Pepitone PHD (University of Michigan) *Assistant Profes-
sor of Education and Child Development*
- Kyle Phillips, Jr. PHD (Princeton University) *Associate Professor of
Classical and Near Eastern Archaeology*
- William R. F. Phillips PHD (University of Wisconsin) *Assistant Pro-
fessor of Sociology*

FACULTY AND STAFF

- Lucian B. Platt PHD (Yale University) *Associate Professor of Geology*
- Judith R. Porter PHD (Harvard University) *Assistant Professor of Sociology*
- Jean A. Potter PHD (Yale University) *Professor of Philosophy*
- David J. Prescott PHD (University of Pennsylvania) *Assistant Professor of Biology*
- John R. Pruett PHD (Indiana University) *Professor of Physics*
- Patricia Onderdonk Pruett PHD (Bryn Mawr College) *Associate Dean of the Undergraduate College and Dean of the Class of 1973 and Lecturer in Biology*
- C. Earl Ramsey PHD (University of Florida) *Assistant Professor of English*
- William H. Reese PHD (University of Berlin) *Director of Orchestra*
- Brunilde Sismondo Ridgway PHD (Bryn Mawr College) *Professor of Classical and Near Eastern Archaeology*
- Beth M. Riser MA (Bryn Mawr College) *Instructor in Education and Child Development*
- William J. Roach PHD (University of Chicago) *Visiting Professor of Old French*
- Caroline Robbins PHD (University of London) LITD LLB *Professor Emeritus of History*
- Charlotte Roederer M PHIL (Yale University) *Lecturer in Music*
- Allen C. Rogerson PHD (Dartmouth University) *Assistant Professor of Biology*
- Marc Howard Ross PHD (Northwestern University) *Assistant Professor of Political Science*
- Stephen Salkever PHD (University of Chicago) *Assistant Professor of Political Science*
- J. H. M. Salmon M LITT (Cambridge University) LITT D (Victoria University) *Marjorie Walter Goodhart Professor of History*
- William Bruce Saunders PHD (University of Iowa) *Assistant Professor of Geology*
- Eugene V. Schneider PHD (Harvard University) *Professor of Sociology*
- James W. Scott PHD (Princeton University) *Assistant Professor of German*
- Russell T. Scott PHD (Yale University) *Assistant Professor of Latin*
- Alain Silvera PHD (Harvard University) *Associate Professor of History*
- James E. Snyder PHD (Princeton University) *Professor of History of Art*
- Martin Avery Snyder PHD (New York University) *Assistant Professor of Mathematics*

BRYN MAWR COLLEGE

- Faye P. Soffen PHD (University of Pennsylvania) *Assistant Professor of Education and Child Development*
- Arthur Colby Sprague PHD (Harvard University) *Professor Emeritus of English Literature*
- K. Laurence Stapleton AB (Smith College) *Mary E. Garrett Alumnae Professor of English Literature*
- Isabel Scribner Stearns PHD (Bryn Mawr College) *Professor of Philosophy*
- Larry Stein PHD (University of Iowa) *Adjunct Professor of Psychology*
- Donald K. Swearer PHD (Princeton University) *Visiting Lecturer in History of Religion*
- James Tanis THD (University of Utrecht) *Director of Libraries and Professor of History*
- Arnold W. Thackray PHD (Cambridge University) *Visiting Lecturer in the History of Science*
- Earl Thomas PHD (Yale University) *Assistant Professor of Psychology*
- James J. Tracy PHD (University of Connecticut) *Assistant Professor of Education and Child Development*
- Phyllis Turnbull D en FL (University of Madrid) *Associate Professor of Spanish and Advisor to Foreign Students*
- Myra L. Uhlfelder PHD (Bryn Mawr College) *Associate Professor of Latin¹*
- Joseph Varimbi PHD (University of Pennsylvania) *Associate Professor of Chemistry²*
- Robert E. Washington MA (University of Chicago) *Lecturer in Sociology*
- Edward H. Watson PHD (Johns Hopkins University) *Professor Emeritus of Geology*
- George E. Weaver, Jr. PHD (University of Pennsylvania) *Assistant Professor of Philosophy*
- Elizabeth Welles PHD (Yale University) *Lecturer in Italian*
- Roger Hewes Wells PHD (Harvard University) *Professor Emeritus of Political Science*
- Raymond S. Willis PHD (Princeton University) *Visiting Lecturer in Spanish*
- Harris Llewellyn Wofford, Jr. AB (University of Chicago) LLB (Howard University and Yale University) *President of the College*
- Mary Katharine Woodworth PHD (Bryn Mawr College) *Professor Emeritus of English*

¹ On leave, semester II, 1971-72.

² On leave, 1971-72.

BRYN MAWR COLLEGE

Dorothy Wyckoff PHD (Bryn Mawr College) *Professor Emeritus of Geology*

Matthew Yarczower PHD (University of Maryland) *Associate Professor of Psychology*

J. Maitland Young PHD (Yale University) *Assistant Professor of Chemistry*¹

George L. Zimmerman PHD (University of Chicago) *Professor of Chemistry*

Officers of Administration

Carol Biba AB (University of Wisconsin) *Director of Publications*
John A. Briscoe MA (Harvard University) *Assistant to the President*

Paul W. Klug CPA BS (Temple University) *Comptroller and Business Manager of the College*

Edith H. McGrath *Executive Assistant to the President*

Julie E. Painter AB (Bryn Mawr College) *Administrator of Records*

Martha Stokes Price AB (Bryn Mawr College) *Director of the Resources Committee*

Thomas N. Trucks BS (Villanova University) *Superintendent of Buildings and Grounds*

Phyllis Turnbull D en FL (University of Madrid) *Advisor to Foreign Students and Associate Professor of Spanish*

Sarah E. Wright *Director of Halls*

Health

Frieda W. Woodruff MD (University of Pennsylvania) *College Physician*

Anne Lee Delano MA (Columbia University) *Director of Physical Education*

John F. Howkins MD (Columbia University, College of Physicians and Surgeons) *Consulting Psychiatrist*

Howard B. Smith MD (Jefferson Medical College) *Consulting Psychiatrist*

Library

James Tanis THD (University of Utrecht) *Director of Libraries*

Thomas Song MALS (University of Michigan) *Associate Director of Libraries*

John Dooley MLS (McGill University) *Assistant Director for Technical Services*

¹ On leave, 1971-72.

BRYN MAWR COLLEGE

Mary S. Leahy MA (Bryn Mawr College) *Rare Book Librarian*

Charles McFadden MSLS (Drexel Institute) *Acquisitions Department*

Catherine E. Pabst MSLS (Drexel Institute) *Head, Acquisitions Department*

Elizabeth T. Pope MSLS (Drexel Institute) *Head, Cataloging Department*

Gertrude Reed MSLS (Rutgers University) *Reference Librarian*

Pamela G. Reilly MSLS (Drexel Institute) *Head, Public Services Department*

Pauline A. Taffe MSLS (Villanova University) *Cataloguing Librarian*

Yildiz van Hulsteyn MSLS (Drexel Institute) *Head, Art-Archaeology and Music Libraries*

Ethel W. Whetstone ABLIS (University of North Carolina) *Head, Sciences and Social Sciences Libraries*

Robert White MSLS (Drexel Institute) *Head, Reclassification Project*

Child Study Institute

Janet L. Hoopes PHD (Bryn Mawr College) *Director*

Shirley Alrich MA (Bryn Mawr College) *Counselor*

Eleanor Beatty MA (George Washington University) *Psychologist*

Lelia Brodersen MA (Temple University) *Chief Psychologist*

Mary Hanlan MSW (University of California) *Counselor*

Beth M. Riser MA (Bryn Mawr College) *Director, Remedial Reading Service*

Russell Sullivan MA (Seton Hall University) *Counseling Psychologist*

Elsie Waelder MSW (Western Reserve University) *Supervising Counselor*

Isabel Westfried MA (Bryn Mawr College) *Psychologist*

Phebe Anna Thorne School

Susan E. Maxfield MS (Syracuse University) *Director*

The Council of the Graduate School
of Arts and Sciences

Dean Foster <i>Chairman</i>	Miss Lang
President Wofford <i>ex officio</i>	Mrs Maw
Mr Burlin	Miss Mellink
Mr Conner	Mrs Pearce
Miss Goodale	Mr James Snyder
Mrs Lachs	Mr Zimmerman

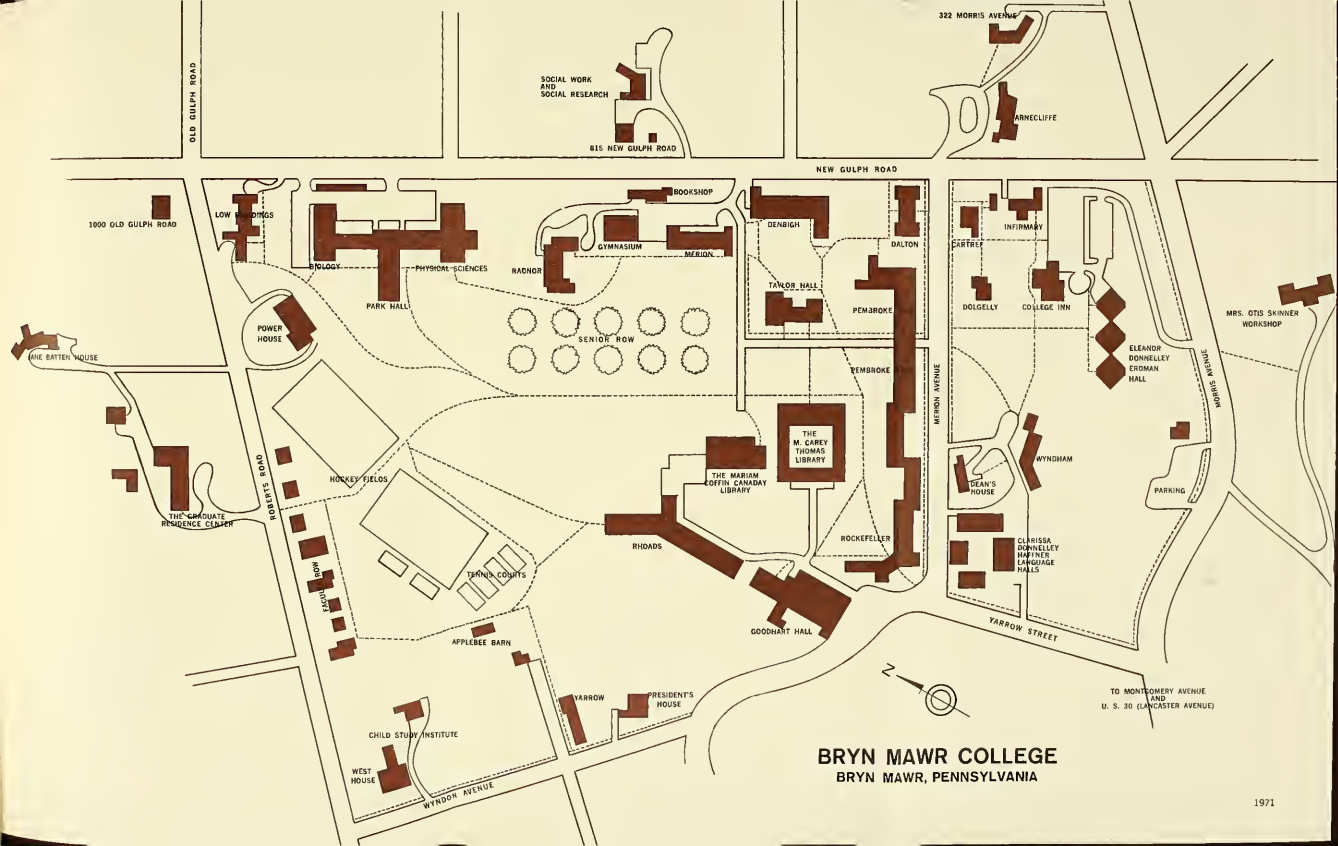
Committee on Graduate Awards

Dean Foster *Chairman*
President Wofford *ex officio*
Miss Dorian (Semester I)
Mr Hoffman
Mr Kramer (Semester II)
Mrs Lachs
Mrs Lane

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BRYN MAWR COLLEGE
 BRYN MAWR, PENNSYLVANIA

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 30th Street Station in Philadelphia and from there 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 exit number 36, Pa. #320, Gulph Mills, which is 3.5 miles east of the toll gate; continue into 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 Gulph 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 made from 30th Street Station, Philadelphia, on the Paoli Local of the Penn Central Railroad, which leaves the station every 15 minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Paoli 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 to Yarrow Street, which leads directly to the campus.

1971-72

Bryn Mawr College Calendar

BRYN
MAWR

Undergraduate College

1971-72

Bryn Mawr College Calendar

Undergraduate Courses

Issue for the Session of 1971-72

August 1971, Volume LXIV, 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 twelve when the College is in session.

Correspondence

The Post Office address is Bryn Mawr College, Bryn Mawr, Pennsylvania 19010. Telephone: 215 LA 5-1000.

Correspondence about 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 of Arts and Sciences

Admission and graduate scholarships

The Dean of the Graduate School of Social Work and Social Research

Admission and graduate scholarships

The Director of Halls

Rooms in the halls of residence

The Comptroller

Payment of bills

The Director of Office of Career Planning and Placement

Recommendations for positions and inquiries about students' self-help

The Alumnae Association

Regional scholarships and loan fund

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Academic Schedule 1971-72

1971

First Semester

- September 7.* Halls of residence open to entering class at 8 a.m.
Registration of entering undergraduate students.
Deferred examinations begin.
- September 8.* Halls of residence open to returning undergraduates
at 8 a.m.

Enrolment of returning undergraduate students.
- September 9.* Work of the 87th academic year begin at 9 a.m.
- September 10.* Deferred examinations end.
- September 25.* French examinations for undergraduates.
- October 2.* German examinations for undergraduates.
- October 9.* Italian, Spanish and Hebrew examinations for under-
graduates.
- October 16.* Greek, Latin and Russian examinations for under-
graduates.
Italian, Spanish, Russian and Statistics examinations
for graduate students.
- October 22.* Fall vacation begins after last class.
- October 27.* Fall vacation ends at 9 a.m.
- October 30.* Mathematics examinations for undergraduates.
- November 3.* Hygiene examination at 8:30 p.m.
- November 6.* German examinations for graduate students.
- November 24.* Thanksgiving Holiday begins after last class.
- November 29.* Thanksgiving Holiday ends at 9 a.m.
- December 13.* Written work due.
- December 14.* Last day of Lectures.
- December 15-16.* Review Period.

- December 17.* College examinations begin.
- December 18.* Language examinations for Seniors Conditioned.
- December 22.* College examinations end.
Winter vacation begins.
- 1972 *Second Semester*
- January 17.* Work of the Second Semester begins at 9 a.m.
- February 19.* Italian, Russian, Spanish, Latin and Statistics examinations for graduate students.
- February 26.* French examinations for graduate students.
- March 4.* German examinations for graduate students.
- March 10.* Spring vacation begins after last class.
- March 20.* Spring vacation ends at 9 a.m. Deferred examinations begin.
- March 25.* Deferred examinations end.
Greek, Latin, Russian and Mathematics for undergraduates.
- April 8.* French and German examinations for undergraduates.
- April 14-16.* Geology Field Trip.
- April 15.* Italian, Spanish and Hebrew examinations for undergraduates.
- April 28.* Last day of Lectures.
- April 29.* Review Period begins.
- May 2.* Review period ends.
- May 3-12.* College examinations.
- May 15.* Conferring of degrees and close of 87th academic year.
- May 19-21.* Alumnae Weekend.

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N.B. The notations throughout this section refer to the following footnotes:

1. On leave of absence, 1971-72.
2. On sabbatical leave, 1971-72.
3. On leave of absence with Junior Faculty Research Award, 1971-72.
4. On sabbatical leave, semester I, 1971-72.
5. On partial leave of absence, semester I, 1971-72.
6. On sabbatical leave, semester II, 1971-72.

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Robert E. Washington, M.A. (University of Chicago), *Lecturer in Sociology*
Elizabeth Welles, PH.D. (Yale University), *Lecturer in Italian*
Raymond S. Willis, PH.D. (Princeton University), *Visiting Lecturer in Spanish*

Instructors

- Miriam P. Hellman, M.A. (Brandeis University), *Part-time Instructor in Mathematics*
Katherine Janowitz, M.A. (Columbia University), *Instructor in English*
Wilbert D. Jerome, M.MUS. (Temple University), *Instructor in Music*

Marion Masiuk, M.A. (Bryn Mawr College), *Part-time Instructor in French*
Judith McFadden, A.B. (Bryn Mawr College), *Part-time Instructor in French*
Anne Mendelson, M.A. (Bryn Mawr College), *Instructor in English*
Annette Palmer, M.A. (Middlebury College), *Part-time Instructor in French*
Beth Riser, M.A. (Bryn Mawr College), *Instructor in Education and Child
Development*

Helen Segall, B.S. (Simmons College), *Instructor in Russian*

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

Library

James Tanis, TH.D. (University of Utrecht), *Director of Libraries*

Thomas Song, M.A.L.S. (University of Michigan), *Associate Director of
Libraries*

John Dooley, M.L.S. (McGill University), *Assistant Director for Technical
Services*

Denise R. Hanouille, M.S.L.S. (Villanova University), *Serials Cataloguer*

Mary S. Leahy, M.A. (Bryn Mawr College), *Rare Book Librarian*

Charles McFadden, M.S.L.S. (Drexel Institute), *Acquisitions Department*

Catherine E. Pabst, M.S.L.S. (Drexel Institute), *Head, Acquisitions De-
partment*

Elizabeth T. Pope, M.S.L.S. (Drexel Institute), *Head, Cataloguing De-
partment*

Gertrude Reed, M.S.L.S. (Rutgers University), *Reference Librarian*

Pamela G. Reilly, M.S.L.S. (Drexel Institute), *Head, Public Services
Department*

Penelope Schwind, M.S. (Drexel University), *Monographic Cataloguer*

Yildiz van Hulsteyn, M.S.L.S. (Drexel Institute), *Head, Art-Archaeology and
Music Libraries*

Ethel W. Whetstone, A.B.L.S. (University of North Carolina), *Head, Sci-
ences and Social Sciences Libraries*

Robert White, M.S.L.S. (Drexel Institute), *Head, Reclassification Project*

Administrative Officers

Carol Biba, A.B. (University of Wisconsin), *Director of Publications*

John A. Briscoe, M.A. (Harvard University), *Assistant to the President*

Merle Broberg, PH.D. (The American University), *Assistant Dean of the
Graduate School of Social Work and Social Research*

Eve C. Brunswick, A.B. (Bryn Mawr College), *Assistant to the Director of
Admissions*

Katrin Ristkok Burlin, M.A. (Cornell University), *Dean of the Class of 1975*

Lupe R. Gonzalez, *Financial Aid Officer of the Undergraduate College*

Paul W. Klug, C.P.A., B.S. (Temple University), *Comptroller and Business
Manager of the College*

Sandra I. Kohler, PH.D. (Bryn Mawr College), *Dean of the Class of 1974*

Phyllis S. Lachs, PH.D. (Bryn Mawr College), *Assistant Dean of the
Graduate School of Arts and Sciences*

Rebecca Fox Leach, A.B. (Bryn Mawr College), *Assistant Director of
Admissions*

Ramona L. Livingston, A.B. (William Jewell College), *Advisor to Foreign Students*

Edith H. McGrath, *Executive Assistant to the President*

Margaret G. McKenna, A.B. (Bryn Mawr College), *Personnel Administrator*

Samuel J. McNamee, B.S. (Temple University), *Assistant Comptroller*

Julie E. Painter, A.B. (Bryn Mawr College), *Administrator of Records and Financial Aid*

Martha Stokes Price, A.B. (Bryn Mawr College), *Director of Resources Committee*

Patricia Onderdonk Pruett, PH.D. (Bryn Mawr College), *Associate Dean and Dean of the Class of 1973*

Jo-Anne E. Thomas, M.A.T. (Harvard University), *Assistant Dean for Student Affairs*

Thomas N. Trucks, B.S. (Villanova University), *Superintendent of Buildings and Grounds*

Sarah E. Wright, *Director of Halls*

Health

Frieda W. Woodruff, M.D. (University of Pennsylvania), *College Physician*
Anne Lee Delano, M.A. (Columbia University), *Director of Physical Education*

John F. Howkins, M.D. (Columbia University, College of Physicians and Surgeons), *Consulting Psychiatrist*

Howard B. Smith, M.D. (Jefferson Medical College), *Consulting Psychiatrist*

Physical Education

Anne Lee Delano, M.A. (Columbia University), *Director of Physical Education*

Jan Eklund Fisher, M.ED. (University of Minnesota), *Instructor in Physical Education*

Linda L. Fritsche, M.S. (Smith College), *Instructor in Physical Education*

Mary L. O'Toole, B.S. (University of Massachusetts), *Instructor in Physical Education*

Janet A. Yeager, *Instructor in Physical Education*

Halls of Residence

Elizabeth DeMere, M.A. (Ecole Normale), *Warden of French House in Haffner Hall*

Renate Filz, *Doktorjur* (University of Vienna), *Warden of German House in Haffner Hall*

Eleanor J. Hedley, M.A. (Bryn Mawr College), *Warden of Merion*

Rebecca Fox Leach, A.B. (Bryn Mawr College), *Warden of Erdman*

Martha Malo, *Licenciada* (University de Cuenca), *Warden of Spanish House in Haffner Hall*

Marion Masiuk, M.A. (Bryn Mawr College), *Senior Resident of the Graduate Center*

Judith McFadden, A.B. (Indiana University), *Warden of Rboads*
Margaret G. Morscheck, B.A. (Miami University), *Warden of Radnor*
Ann Semolic, B.A. (University of Connecticut), *Warden of Pembroke East*
Anne Weis, M.A. (University of Missouri), *Warden of Pembroke West*
Lisa Woodside, M.A. (University of Chicago), *Warden of Denbigh*

Assistants

Alexa Albert, M.A. (Lehigh University), *Assistant in Sociology*
Donna Amenta, M.A. (Bryn Mawr College), *Assistant in Chemistry*
Gwyneth H. Beagley, B.A. (Middlebury College), *Assistant in Psychology*
Margaret Dalesandro, B.A. (Rosemont College), *Assistant in Biology*
Shubha P. Damle, M.Sc. (Indian Institute of Technology), *Assistant in Physics*
Carol Dennis, B.A. (Smith College), *Assistant in Biology*
Caroline Dudeck, A.B. (Bryn Mawr College), *Assistant in Philosophy*
R. Bruce Dutton, B.A. (University of Victoria), *Assistant in French*
Leonard A. Eiserer, B.A. (University of Maine), *Assistant in Psychology*
Robert J. Ferguson, B.S. (Western Illinois University), *Assistant in Chemistry*
Lynn David Haynes, B.S. (East Tennessee State University), *Assistant in Geology*
Myrl Hermann, M.A. (Bryn Mawr College), *Assistant in Music*
A. Richard Hunter, M.A. (Villanova University), *Assistant in Philosophy*
Ronald Jones, B.S. (Imperial College of Science and Technology), *Assistant in Physics*
Katherine Krause, A.B. (Wellesley College), *Assistant in Biology*
Elaine Kyriacou, B.A. (Glassboro State College), *Assistant in Mathematics*
Barry N. Lurie, A.B. (Temple University), *Assistant in Chemistry*
Annette Magargee, A.B. (Goucher College), *Assistant in Education*
Edyth L. Malin, M.S. (American University), *Assistant in Chemistry*
Sister Margaret Manion, M.A. (Melbourne University), *Assistant in History of Art*
John LaNeve Molinary, B.S. (East Tennessee State University), *Assistant in Geology*
Lynn Penn, M.A. (Bryn Mawr College), *Assistant in Chemistry*
John T. Ryan, A.B. (Fordham University), *Assistant in History*
Susan Saward, M.A. (Bryn Mawr College), *Assistant in History of Art*
William S. Schneider, B.A. (Franklin and Marshall College), *Assistant in Anthropology*
Sandra Schoenberg, M.A. (University of Virginia), *Assistant in Sociology*
Kathleen W. Slane, B.A. (Bryn Mawr College), *Assistant in Classical and Near Eastern Archaeology*
Jayne L. Warner, M.A. (University of Vermont), *Assistant in Classical and Near Eastern Archaeology*
Yeomin Yoon, M.A. (Bryn Mawr College), *Assistant in Economics*
N.B. Assistants in general are on part-time appointment.

Child Study Institute

- Janet L. Hoopes, PH.D. (Bryn Mawr College), *Director*
Jean Ager, A.B. (Western College for Women), *Part-time Psychologist*
Shirley Alrich, M.A. (Bryn Mawr College), *Counselor*
Jean Astley, B.A. (University of Pennsylvania), *Remedial Reading Teacher*
Eleanor Beatty, M.A. (George Washington University), *Psychologist*
Hannah Beiter, A.B. (State College of New Jersey), *Remedial Reading Teacher*
Lelia Brodersen, M.A. (Temple University), *Chief Psychologist*
Marjorie Edwards, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*
Elizabeth Emlen, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*
Anne D. Emmons, M.S. (University of Pennsylvania), *Remedial Reading Teacher*
Kathleen Finnegan, M.A. (Temple University), *Part-time Psychologist*
Joel Goldstein, M.D. (Jefferson Medical School), *Consulting Psychiatrist*
Ronnie Goldstein, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*
Constance Grant, B.S. (University of Pennsylvania), *Remedial Reading Teacher*
Anita Grinnell, M.S. (University of Pennsylvania), *Part-time Psychologist*
Ann Hamm, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*
Mary Hanlan, M.S.W. (University of California), *Social Caseworker*
Bernard Kanter, M.D. (Dalhousie University), *Consulting Psychiatrist*
Frederic J. Kwapien, M.D. (Tufts University School of Medicine), *Consulting Psychiatrist*
Christine Patzau, M.S.W. (University of Pennsylvania School of Social Work), *Part-time Social Caseworker*
Myra E. Pottash, M.A. (Bryn Mawr College), *Psychologist*
Beth M. Riser, M.A. (Bryn Mawr College), *Director, Remedial Reading Service*
Beatrice Schneider, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*
Jean Slavin, M.A. (Columbia University Teachers' College), *Remedial Reading Teacher*
Herman Staples, M.D. (Hahnemann Medical College), *Consulting Psychiatrist*
Russell Sullivan, M.A. (Seton Hall University), *Counseling Psychologist*
Judith Vaden, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*
Elsie Waelder, M.S.W. (Western Reserve University), *Chief Social Worker*
Isabel Westfried, M.A. (Bryn Mawr College), *Psychologist*

Phebe Anna Thorne School

- Susan E. Maxfield, M.S. (Syracuse University), *Director*
Harriet Heath, B.A. (Cornell College), *Assistant to Director*
H. Elizabeth Junek, A.B. (Vassar College), *Teacher*
Janet A. Edwards, A.B. (Oberlin College), *Assistant Teacher*
Janet Kilbride, M.S. (Pennsylvania State University), *Assistant Teacher*
Elizabeth Steinberg, A.B. (Bryn Mawr College), *Assistant Teacher*

Introduction

Bryn Mawr effectively combines a small undergraduate college with two graduate schools. In both the Graduate School of Arts and Sciences and the Undergraduate College the study of the liberal arts and sciences is pursued with members of the faculty who normally teach on both levels. They find that the teaching of undergraduates and the direction of graduate student research complement each other, so that 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 narrow that it may not profit from a breadth of perception.

Bryn Mawr College is convinced that intellectual discipline and enrichment provide a sound foundation for living. It believes in the rights of the individual and thinks of the college community as a proving ground for the freedom of individuals to think and act as intelligent and responsible members of a democratic society.

In these beliefs Bryn Mawr has preserved the purpose and much of the tradition of its founders, 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.

History of the College

This concern about the opportunity for women to study at the university level was felt strongly 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 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. As Dr. Taylor's trustees in the early years consid-

ered 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 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 distinguished in the academic world for her scholarship in the classics and her ability as a teacher and administrator. From 1942 to 1970 Katharine Elizabeth McBride presided over the College in a time of great change and tremendous growth. The fifth president, Harris Llewellyn Wofford, Jr., was elected in 1969.

Since the early years of Bryn Mawr, the campus has grown from 39 to about 100 acres; new buildings have been added as required by additional students and by new undertakings in teaching and research.

The College as Community

Believing that a small college provides the most favorable opportunity for the students to participate in their own education, Bryn Mawr limits the number of undergraduates to approximately eight hundred. 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 from many foreign countries.

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.

Students may take courses at the other colleges, with credit and without additional fees. All three colleges share in some facilities and in various curricular and extra-curricular activities, but geographical proximity makes possible more regular and closer cooperation between Bryn Mawr and Haverford, which are only a mile apart. The calendars for the year are coordinated so that vacations and examination periods coincide. Collections in the two libraries are cross-listed, and students may study in either library.

The cooperation between Bryn Mawr and Haverford naturally extends beyond the classroom. Various student organizations on the two campuses work closely together both in matters concerned with student government and in the whole range of activities. Cooperation in living arrangements, which was initiated in 1969-70, will be extended in 1971-72 so that several residence halls on the two campuses will be assigned to students of both colleges.

Bryn Mawr itself sponsors a broad cultural program which supplements the curriculum and enriches its community life. Various lecture-ships bring scholars and other leaders in world affairs to the campus not only for public lectures but also 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 by the Anna Howard Shaw Lectures in the social sciences, the visiting professors on the new Katharine E. McBride Fund for faculty appointments and by various individual lecturers in many of the departments of the College. The President's Office sponsors seminars on current issues which bring together distinguished leaders from the worlds of business, politics, finance and scholarship. Several of the student organizations also arrange conferences and lectures both on current national and international problems and within particular fields of social and cultural 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 has facilities for experimental theater work; the Arnecliffe Studio is 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, and student representatives join with members of the faculty and administration in making and carrying out plans for the college community as a whole. The Student Government Association, to which every student belongs, provides a framework in which individuals and smaller groups function. The Association both legislates and mediates in matters of social and personal conduct. Through their Government Association, the students share with the faculty the responsibility for the administration of the Academic Honor System. The Association also coordinates the activities of the many special interest clubs, open to all students; it serves as the liaison between students and College officers, faculty and alumnae. It has most recently been instrumental in perfecting a system of meal exchanges with Haverford, extending the shuttle bus service which the two colleges provide, and introducing college transportation between the two colleges and Swarthmore.

The Association is aided by the Committee on Religious Life of the Board of Directors and by the staff of the College to bring students in touch with their churches, to sponsor lectures or discussions on religious subjects, to plan services for worship and to take responsibility for giving students an opportunity to pursue and extend their religious interests.

Other major student organizations are concerned with political affairs, community service, the arts and athletics. The Alliance for Political Affairs offers possibilities for political action and political education, sponsoring speakers, organizing discussions and providing outlets for active participation in contemporary political issues. Alliance is an "umbrella organization" serving politically-oriented interest groups on campus. The Bryn Mawr League concerns itself with problems and projects of social welfare and various branches of social service to the community at large; tutoring and volunteer work with children and in hospitals are now the chief activities of the League.

The Arts Council, independently or with other groups (College Theater, Orchestra, Chorus, Little Theater) sponsors work and performances or exhibitions in the arts. Under the aegis of the Athletic Association, the Dance Club choreographs its own productions. The Athletic Association also provides opportunities for all kinds of activities, from the Outing Club to organized intramural and varsity contests. *The Bryn Mawr-Haverford News* published weekly and

Arroy published annually welcome the participation of students interested in reporting, editing and critical or creative writing.

One of the most active of student organizations is the Curriculum Committee which has worked out with the Faculty Curriculum Committee a system of self-scheduled examinations, currently in operation, as well as the possibility of receiving academic credit for "project" courses of a creative studio type or in social field work. Students participated in meetings of the Faculty Curriculum Committee for the first time in 1969-70 and continue to work with the faculty on an overall curriculum review which has to date resulted in a revision of the grading system and the initiation of four new interdepartmental majors and an interdepartmental area of concentration. Black students' organizations have also been active in arranging with members of the faculty and staff for visiting lecturers to teach new courses in the appropriate departments and in 1970-71 opened a Black Cultural Center.

In 1970-71 for the first time the Faculty voted to invite three seniors elected by the undergraduates to serve with faculty members on the College Admissions Committee. The Board of Directors requested the undergraduate college and the student organizations from each of the graduate schools to elect representatives to sit with the Board in its stated meetings. Two undergraduate students began meeting with the Board in May 1971. Like the faculty representatives to the Board, the student members join in discussion but do not vote.

Through their interest and participation in these many aspects of the college community the students exemplify the concern of Bryn Mawr's founders for intellectual development in a context of social commitment.

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 advisor and several teachers for an estimate of her character, maturity and readiness for college.

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 College would be 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; four years of one modern or ancient language, or a good foundation in two languages; 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.

Candidates will be notified of the Committee on Admissions' action on their application in late April of the senior year.

Entrance Tests

The Scholastic Aptitude Test and three Achievement Tests of the College Entrance Examination Board are required of all candidates, and should be taken between March of the junior year and January of the senior year. The tests may be taken in either the junior or senior year, or divided between the two years. 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. No special preparation, other than work well done in a good school, is required for successful performance on these tests.

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 08540 or P. O. Box 1025, Berkeley, California 94701.

Interviews

All candidates are expected to have an interview, before January 15, either at the College or with an alumna area representative. Appointments for interviews and campus tours should be made in advance by writing or telephoning the Office of Admissions (215 LA 5-1000). The Office of Admissions is open from nine to five on weekdays and, except during March, July and August, on Saturdays from nine to one.

A student who is unable to visit the College should write to the Director of Admissions for the name and address of an alumna representative in her area.

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 December 1) 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 the Scholastic Aptitude Test and three Achievement Tests (English and any two others) between March and 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 15*, a preliminary application and a statement obtained from the College that she is a candidate under the Early Decision Plan.

3. All other application forms must be completed and returned no later than *November 1*.

4. She should arrange for the required interview at the College or with an alumna area representative. Names and addresses of the area representatives may be obtained from the Director of Admissions.

5. She will be notified by December 1 by the College (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 and to file an application with at least one other college, or (3) that she will not be admitted to Bryn Mawr.

Deferred Entrance

A student admitted to the College may defer entrance to the freshman class for one year provided that she writes the Director of Admissions requesting deferred entrance by May 1, the Candidate's Reply Date.

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.¹ 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.

The Advanced Placement Tests are given at College Board centers in May. Students may also consult the Dean or the Director of Admissions about the advisability of taking placement tests given by the College during Freshman Week.

Transfer Students

Each year a few students are admitted on transfer to the sophomore and junior classes. Successful transfer candidates have done excellent work at other colleges and universities and present outstanding high school records which compare favorably with those of entering Bryn Mawr freshmen.

Transfer candidates should file applications as early as possible and no later than April 1 for entrance in September or no later than November 1 for the second semester of the year of entrance. Application forms and instructions may be requested from the Director of Admissions.

Transfer candidates will be asked to submit official test reports from the College Entrance Examination Board of the Scholastic Aptitude and Achievement Tests taken in high school. Those who have not previously taken these tests will be required to take only the Scholastic Aptitude Tests. Test registration information may be obtained from the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540, or from the West Coast office of the Board at Box 1025, Berkeley, California 94701.

To qualify for the A.B. degree transfer students must have completed a minimum of two years of full-time study at Bryn Mawr. No credit will be given for work done elsewhere until the student

1. The grade of 5 is required in English and in History.

See also pages 44-45, sections II and III.

has successfully completed a year's work at the College. Students who have failed to meet the prescribed standards of academic work or who have been put on probation, suspended or excluded from other colleges and universities, will under no circumstances be admitted.

Candidates for transfer will be notified of the action taken on their applications by early June or for the second semester in December.

Foreign Students

Bryn Mawr welcomes applications from foreign students between the ages of 17 and 21 who have outstanding secondary school records and who meet university entrance requirements in their native countries.

Application forms and instructions are available from the Director of Admissions. No application fee is required. Foreign applications should be filed early in the year preceding entrance and must be complete by February 15.

Foreign applicants will be asked to take the Scholastic Aptitude Tests of the College Entrance Examination Board. Achievement Tests are recommended but not required. Test registration information may be obtained from the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540 or the West Coast office of the Board at Box 1025, Berkeley, California 94701. Registration arrangements for students taking the tests abroad should be made at least two months prior to the scheduled testing date.

All foreign applicants whose native language is not English will be required to present credentials attesting to their proficiency in English. The Test of English as a Foreign Language (TOEFL) is recommended but not required for all non-native speakers of English unless they have a diploma from an institution in which English is the sole medium of instruction. TOEFL registration information can be obtained by writing the Educational Testing Service, Princeton, New Jersey 08540.

Withdrawal and Readmission

A student who has withdrawn from College is not automatically re-admitted. She must request readmission and should consult her Dean and the Director of Admissions concerning the procedure to be followed. Evidence of the student's ability to resume work at Bryn Mawr may be requested in the form of records from another university or medical approval. 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 1 will be notified late in June.

Leaves of Absence

A student whose status at the College is not in question may apply to her Dean for a leave of absence. A leave may be requested for one semester or two consecutive semesters, and once approved, reinstatement will be granted. The estimated residential space available at the time a student wishes to return to the College will be a factor in the consideration of requests for leaves. Application must be made in writing by May 1 of the academic year preceding the requested leave (or October 29 for second semester leave). The deans and members of the student's major department will review any questions raised by the student or her Dean regarding the approval of the leave. In case of study at another institution, either foreign or domestic, the transfer of credits will be treated in the usual manner by the Committee on Transfer. A student should confirm her date of return, by letter to her Dean, by March 1 preceding return for the fall semester and by December 1 for return in the spring semester.

A student extending her leave beyond the approved period will have to apply for readmission.

Medical Leave of Absence

A student may, on the recommendation of the College Physician or her own doctor, at any time request a medical leave of absence for reasons of health (see page 38, Tuition). Re-entrance will be granted upon evidence of recovery.

Academic Facilities and Residence

Libraries

The new Mariam Coffin Canaday Library was officially opened in April, 1970. As the center of the College's library system, it offers expanded facilities for study and research. The collections for the humanities and social sciences are largely in the Canaday Library, except for Art and Archaeology in the M. Carey Thomas Library, Music in Goodhart Hall and Psychology in Dalton Hall. In addition, there are libraries for the Sciences and Mathematics in the Science Center.

Bryn Mawr's libraries operate on the open-stack system, allowing students free access to the collections, which comprise more than 350,000 volumes. A union catalogue for all the libraries of Bryn Mawr College is located in the Canaday Library, as are the basic reference and other service facilities of the system. Students are urged to familiarize themselves with the various aids provided for study and research. A new "Guide to the Bryn Mawr College Library" is available for handy reference, and the staff of librarians may be consulted for further assistance.

In addition to the books, periodicals and microfilms basic to a college library, the Canaday Library also has a small but distinguished collection of research materials among its rare books and manuscripts. The Marjorie Walter Goodhart Medieval Library, for example, provides the basic texts for probing the mind of the late Middle Ages and the thought of the emerging Renaissance. These treasures are supplemented by a growing collection of sixteenth-century texts. Another noteworthy resource is the Louise Bulkley Dillingham collection of Spanish-American books, which range from sixteenth-century exploration and settlement to contemporary Spanish-American life and culture.

The Rare Book Room houses the Marjorie Walter Goodhart Medieval Library of incunabula and medieval manuscripts. Important and extensive collections of early material on Latin America, Africa and Asia are to be found in the Dillingham, McBride and Plass collections. The recently acquired Castle collection expands the

opportunities for the study of the graphic book arts. In addition to these special collections are numerous other rare books and manuscripts.

The M. Carey Thomas Library still houses in the West Wing the books and other study materials of the Departments of Classical and Near Eastern Archaeology and History of Art. The study area in the stacks has been increased and the collections of slides and photographs have been made more accessible. Also in the West Wing is the Quita Woodward Memorial Room for recreational reading, with recent books in literature, art, religion and current affairs as well as many classics. The rest of the M. Carey Thomas Library will continue to provide offices for the majority of faculty in the humanities and social sciences as well as informal meeting rooms and the Great Reading Room.

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 Director of Libraries 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.

Archaeology Collections

The Ella Riegel Museum of Classical Archaeology, housed on the third floor of the M. Carey Thomas Library, West Wing, contains a small study collection of Greek and Roman minor arts, especially vases, and a selection of pre-classical antiquities. The Museum was formed from private donations such as the Densmore Curtis collection presented by Clarissa Dryden, the Elisabeth Washburn King collection of classical Greek coins, and the Aline Abaecherli Boyce collection of Roman Republican silver coins. Professor Hetty Goldman has given the Ella Riegel Museum an extensive series of pottery samples from the excavations at Tarsus in Cilicia. The collections are used for small research projects by undergraduate and graduate students.

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 are 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 for Biology. 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 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 are large laboratories and lecture rooms for undergraduate students and smaller seminar rooms and laboratories for graduate students. In

for the Coordination of the Sciences and through research grants from industry and other private sources and from government agencies.

In the Science Center there is a machine shop with a staff of expert machinists to serve all the science departments, and several departments have smaller shops for the use of their own faculty and students. There are rooms specially equipped for work with radioactive materials and for photographic work.

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.

Bryn Mawr and Haverford Colleges own jointly a third-generation computer (IBM 360, Model 44), having 128,000 bytes of core storage, along with approximately 32,000,000 bytes of random access disk storage and two magnetic tape drives. Access to this computer is available over a high-speed data line from a variety of remote terminals located in various places on the Bryn Mawr campus. The remote terminals include teletypes, a card reader, and one 600-line per minute printer, all driven by a small satellite computer.

Language Laboratory

The Modern Language Departments jointly maintain a Language Laboratory in the Thomas Library. 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. 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. Erdman Hall, first opened in 1965, was named in honor of Eleanor Donnelley Erdman,

Class of 1921, and member of the Board of Directors. The Clarissa Donnelley Haffner Hall, which brings together into a "European village" three houses for students of French, German and Spanish, was opened in the fall of 1970.

In the year 1969-70 an experiment in coeducational living was tried: Radnor Hall housed students from both Bryn Mawr and Haverford; other Bryn Mawr students occupied suites in a Haverford residence hall. The success of the experiment and increased interest in these arrangements have resulted in an extension of coeducational living to Rhoads and Merion Halls at Bryn Mawr and to further units at Haverford.

College officers called wardens are in charge of the residence halls. They may be single women or married couples who are members of the Dean's staff but at the same time close to the undergraduates in age and engaged either in teaching or in studying for an advanced degree. They are interested in all aspects of each student's welfare and they work, 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 linen, 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 national food service organization. No special foods or diets can be obtained.

Rules for Residence

Residence in the college buildings is required of all undergraduates with two exceptions: those who live with their families in Philadelphia or the vicinity; and no more than twenty-five seniors who in 1969-70 for the first time were allowed to live in houses or apartments of their own choosing after having received permission to do so from both the College and their parents. Married students are not offered residence space.

A student enrolled in the College who plans to be married must inform the Dean in advance and must make her own living arrangements. 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 \$5.00 per day (including meals).

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 Erdman Hall is available for consultation.

Non-resident students are liable for all undergraduate fees except those for residence in a hall. A Dispensary fee of \$25 entitles them to medical examination and consultation with the College Physician.

Fees

Tuition

The tuition fee in 1971-72 for all undergraduate students, resident and non-resident, is \$2450 a year.

The fee is payable in two installments. The first bill will be sent in July 1971, and is payable no later than August 15, 1971. The second bill will be sent in December and is payable no later than January 15, 1972. Although the tuition fee is paid in two equal parts, no reduction or refund will be made in the total tuition fee on account of absence, illness, dismissal, or for any other reason.

The average cost of teaching each undergraduate is over \$4000 a year. The difference over and above tuition must be met from private gifts and income from endowment. Contributions from parents able and willing to pay an additional sum are most welcome to help meet the expenses of instruction.

Residence

The charge for residence is \$1350 a year and will be billed twice a year with tuition, that is, in July and December.

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 for the whole year, 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.

General Deposit

All entering students are required to make a deposit of \$100. This deposit will remain with the College while the student is enrolled as an undergraduate. The deposit will be returned upon graduation or withdrawal from College. However, any unpaid bills and any expenses incurred as a result of destruction or negligence on the part of the student will be applied against the deposit.

Present undergraduates will be billed for the general deposit in July, 1971. Students entering the Class of 1975 and all new students thereafter will be billed for the deposit upon acceptance of admission.

Summary of Fees and Expenses for 1971-72

Tuition	\$2450
Residence	1350

Minor Fees

Laboratory fee:

One course of 2 hours or less a week	\$12.50
One course of more than 2 hours a week	25.00
Two or more courses of more than 2 hours a week	50.00
Health Insurance (Students' Health Care Plan)	30.00
(For foreign students)	45.00
Dispensary fee for non-resident students	25.00
Graduation fee (payable in the senior year)	25.00

Schedule of Payments

Tuition and residence fees will be billed in two equal installments and are due as follows:

For resident students

- \$1900 due not later than August 15
- \$1900 due not later than January 15

For non-resident students

- \$1225 due not later than August 15
- \$1225 due not later than January 15

No student will be permitted to attend classes or to enter residence until payment of the College charges has been made. No student will be graduated or receive a transcript until all accounts are paid.

Faced with the rising costs affecting all parts of higher education, the College has had to raise tuition each of the last two years, and further increases can be expected.

Monthly Payment Plan

For parents who wish to pay college fees on a monthly basis, the College offers the Education Plan in cooperation with the Bryn Mawr Trust Company. To finance a single year's cost it is necessary to sign an agreement by July 15. Contracts include the benefit of parent life, total and permanent disability insurance. For information, write to the Business Manager of the College.

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 advises seniors, and each of the other classes has its own Class Dean. In addition to their class deans, students may work with the assistant dean for student affairs, who helps to coordinate the calendar and undergraduate extracurricular activities. A financial aid officer administers the financial aid program which includes grants and loans. The wardens of residence halls, who are members of the dean's staff, also are ready to advise and assist students. The college physician, the consulting psychiatrists, counselors and vocational advisors are also available to all students. The deans and the wardens will give students information about appointments with these specialists.

For freshmen, the Student Freshman Week Committee and the College provide a special period of orientation. Freshmen are asked to come into residence 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. Freshmen with their parents may have interviews with the President. In addition, freshmen have individual appointments with the deans to plan their academic program for the year. 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 Student Government Handbook.

Each student's academic work must be of sufficiently high quality to meet the academic standards set by the College. The Council of the Undergraduate 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 Undergraduate Council may set specific requirements to be met by the student concerned and may also curtail privileges. In extreme cases the Undergraduate Council may exclude a student or require her to withdraw from the 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. Any infraction of these regulations or any action contrary to their spirit constitutes an offense. Infractions are dealt with by an Administrative Board composed of faculty and students under the chairmanship of the President of the College.

Attendance at Classes

Regular attendance at classes is expected. Responsibility for attendance rests solely with each student. In general no attendance records are kept. 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.

Health

Students receive clinic and hospital care in the College Dispensary and Infirmary, where a College Physician is in daily attendance. The 18-bed Infirmary is open when College is in session. Additional medical and surgical facilities are readily available at the Bryn Mawr Hospital and in nearby Philadelphia.

Students receive out-patient care in the College Dispensary and in-

patient care when necessary in the Infirmary. Medical and psychiatric consultations with the College staff are available.

The Counselling Service is staffed by a social worker, clinical psychologist and three psychiatrists who are employed by the health service on a part-time basis. This service is available to all students eligible for Dispensary care, and is limited to discussion of acute problems, diagnosis and recommendations for further care. A charge is made for visits in excess of four.

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, an intradermal tuberculin test and ophthalmologist's certificate are required. If the intradermal tuberculin test is reported positive a chest x-ray is necessary. Students who have failed to hand in these reports will not be permitted to register until they have completed the necessary examinations and immunizations.

The residence fee paid by resident students entitles them 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 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 \$15. A nominal charge will be made for medicines and laboratory tests.

Non-resident students must pay a fee of \$25, which entitles them to dispensary service and 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. Admission to the Infirmary of non-resident students is at the rate of \$15.00 per day.

All communications from parents and guardians, outside physicians and others, concerning the health of the students, should be addressed to the College Physician. Any student who becomes ill when absent from College must notify the Office of the Dean immediately and present to the Infirmary when she returns a signed statement from her physician. If a student leaves the campus for reasons of health she should notify her Class Dean or the Infirmary.

The College reserves the right, if the parents or guardians of a student cannot be reached, to make decisions concerning operations or other matters of health.

The College has arranged for health insurance, known as the Student's Health Care Plan. Individual policies providing reimbursement for medical, surgical and hospitalization expenses within specified limits are available to students. The cost is \$30 a year and includes coverage for one full calendar year. Foreign students must carry health insurance valid in the United States. The cost for insurance taken out at Bryn Mawr is approximately \$45 for a twelve-month period. Application forms may be obtained from the Comptroller.

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 present plan of 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 flexibility and makes it possible for students to include a wide range of fields of knowledge and to have great freedom to explore and elect. Some of the flexibility has been achieved by including all departments of the College in a divisional system, thus allowing both humanist and scientist a variety of ways in which to meet college requirements.

The Plan for the Curriculum

I. All candidates for the A.B. degree shall present 16 units¹ of work. In all cases one of these will be a unit of Senior Conference in the major subject.

II. All students must present as a requirement for the degree one unit of work from each of the following four divisions.

<i>Group I</i>	<i>Group II</i>	<i>Group III</i> ⁵	<i>Group IV</i>
History	Biology	English	History
Philosophy	Chemistry	Literature	Philosophy
Anthropology ²	Geology	Modern	Archaeology
Economics	Physics	Literatures	History of Art
Education	Psychology 101	Classical	History of Religion
Political Science	Mathematics ⁴	Literatures	Music
Psychology ³			
Sociology			

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. Anthropology 101.

3. Two semester courses chosen from: 205a/b, 206a, 306b, 307a, 308b.

4. Mathematics alone may not be used to fill any *group* requirement. See page 45, II, a & c; III, B, 2.

5. The following courses satisfy the requirement:

English 102, 103 and all 200 courses under "Literature"

French 201, 202, 203 and all 300 courses

German 202 and all 300 courses

Greek 101, 201, 203 and 301

Italian 201, 202, 303 and 304

Latin 101, 201, 202 and all 300 courses

Russian 203 and all 300 courses

Spanish 201, 203 and all 300 courses

In special cases, Biblical Literature may satisfy the requirement.

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. Students majoring in Psychology may count a course in their major as satisfying *either* Group I or Group II, but not both.

c. Courses taken to satisfy the requirements in English and 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 015) unless by a score of 5 on the Advanced Placement Test she has shown evidence that she has attained proficiency at this level.

B. Achieve a certain level of proficiency in languages or in one language and 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 C 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 January or May of the year prior to college admission and/or by passing with an honor grade an Advanced Placement Test.

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 C in Mathematics 101 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 C 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 advisor plan an appropriate sequence of major and allied courses. Usually a major is made up of four courses, two courses of allied work and one unit of Senior Conference in the Major Subject. No student may be required to offer more than six courses 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 and a Senior Conference
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 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.

A student with unusual interest or preparation in several areas could consider one of the interdepartmental majors, a double major, a major with a strong minor, or a special program involving work in several departments built around one major as a core. Such programs can be arranged by consulting the Dean and members of the departments concerned.

A student who wishes to pursue the study of a special area, figure or

problem within a given discipline, may, if she finds a faculty member willing and able to supervise such work, substitute a supervised unit of independent study for one semester or year course.

In 1971 the faculty voted to change from a numerical grading system to one which uses only the letters A, B, C, D and F.

Each student must attain a grade of C or above in at least half of her graded courses and a grade of at least D in the remainder. In all courses in her major subject, she must attain grades of C or above. Should she receive a grade below C 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 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 Credits (see page 29)
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, in the case of required or major and allied work, by 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 may major in departments at Haverford College for which there are no corresponding departments or programs at Bryn Mawr, e.g., Astronomy.

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 credits should first obtain approval of their plan from their Class 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:

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 fall of the senior year.

b. Physical Education

All students must meet the requirement in Physical Education. (See page 147)

2. Residence—Every candidate for the degree of Bachelor of Arts unless she is a transfer student or is permitted to accelerate her program or to take a junior year away will normally 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 enters 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 a second course in Biology.

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. Students planning pre-medical work should consult early in their careers with the Associate Dean who is the pre-medical advisor for the College.

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 (see page 171). 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.

Preparation to Teach

Students majoring in a liberal arts field which is taught in secondary school may, by appropriate planning early in the undergraduate career, prepare themselves to teach in the public junior and senior high schools of Pennsylvania. By reciprocal arrangement the Pennsylvania certificate is accepted by a number of other states. A student who wishes to teach should consult early in her college career with the chairman of the department concerned and of the Department of Education so that appropriate curriculum plans can be made.

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. Through the grant, the College is able to offer both undergraduate and graduate scholarships to students who wish to prepare themselves for future work in areas of interest to more than one natural science department. The chairmen of the departments included in this plan (Biology, Chemistry, Geology, Mathematics, Physics, Psychology) will be glad to see students interested in this program and to advise them about their course of study. Such students should consult with the chairmen of the departments as early as possible.

Interdepartmental Work

In 1970-71 the faculty voted approval for four new Interdepartmental majors in Classical Languages, Classical Studies, French Studies and the Growth and Structure of Cities, and an Interdepartmental area of concentration in Hispanic and Hispanic-American Studies (see page 139).

In addition each year certain courses are offered which cut across well-defined areas of knowledge and emphasize relationships among them. The interdepartmental courses are usually offered at the advanced level since the material considered requires some background in at least two disciplines.

Credit for Creative Work in the Arts

Although Bryn Mawr does not have a regular program of studio courses, serious students of Art, Music and the Dance may receive elective academic credit for work in these fields just as students of creative writing do. For details see under Fine Art, the Performing Arts and the Department of Music.

Language Houses

Haffner Hall, which opened in the fall of 1970, comprises three separate units for qualified students of French, German and Spanish.

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, stu-

dents should consult Dr. Michel Guggenheim of the Department of French.

Centro de Estudios Hispánicos en Madrid

Bryn Mawr also 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 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 the Department of Spanish. A small 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 Sarah Lawrence, Smith and Sweet Briar Colleges or at *L'Académie*; in Geneva, Florence, Hamburg or Madrid with groups organized by Smith College, or in Munich or Freiburg with the group sponsored by Wayne State University. Students may apply for admission to other Junior Year Abroad programs which have the approval of their major department and the Curriculum Committee. 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.

Intercollegiate Center for Classical Studies in Rome

The Center is maintained by a cooperating group of colleges and universities, of which Bryn Mawr is a member. Students majoring in Latin, Greek or Archaeology who meet the Center's entrance requirements may apply for admission for one or both semesters of the junior year. The Center's curriculum includes courses in Greek and Latin Literature, Ancient History and Archaeology, and provides for the study of Italian.

Guest Senior Year

A student, after consultation with her major department and her Dean, may apply for a guest senior year at another institution in the following circumstances: (a) if a program offered elsewhere will provide her with an opportunity of furthering her academic goals in a way not possible at Bryn Mawr (such cases to be submitted to the Curriculum Committee for approval); (b) for reasons of health or family emergency; (c) if she will be married and not remain in the Bryn Mawr area.

Scholarships and Other Student Aid

All students are, strictly speaking, on scholarship in the sense that their tuition fees cover only part of 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 approximately forty per cent 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.

Employment and Vocational Counselling

The Office of Career Planning and Placement is concerned with student and alumna career, summer and self-help job interests.

Students and Alumnae may consult with this office about careers which match their interests, preparation, and experience, information on specific employers and current job openings, and techniques of job-hunting. Career Planning and Placement also collects, maintains and makes available to employers, credentials including biographical data and faculty and employer references, for those who register with the office.

Students may obtain part-time employment during the school year both on and off campus. Some of the jobs available are clerical, library work, typing, waitressing, child care and sales. Information on summer jobs is collected and made available to those students who are interested in summer work experience. The staff is also available to consult with students on appropriate jobs, employers and job-hunting techniques for summer pre-vocational work experiences. Last year over sixty per cent of the undergraduate students worked during the academic year, with a range of earnings from \$1.00 to over \$900, averaging \$193. During the summer of 1970, 62 per cent of the undergraduates chose to work with average earnings for the summer of \$528.

Students of foreign citizenship wishing employment should consult the Advisor to Foreign Students whose office is in Dalton Hall.

Bryn Mawr participates in the Federal College Work-Study Program established by the Economic Opportunity Act of 1964. This program provides funds for on and off campus jobs for students who meet the Federal eligibility requirements.

The Werkman Fund, given in memory of Alexandra Colt Werkman '60, provides the impetus for career conferences coordinated by the Careers Office. These conferences are designed to help Bryn Mawr students seek out a full range of stimulating careers and resolve the particular challenges faced by well-educated women.

Courses of Study 1971-72

Key to Course Numbers and Symbols

001-099

indicate elementary and intermediate courses.

With the exception of Greek 001 and Russian 001 these courses are not part of the major work.

100-199

indicate first-year courses in the major work.

200-299

indicate second-year courses in the major work.

300-398

indicate advanced courses in the major work; 399 may be used for the Senior Conference.

400-499

indicate special categories of work (e.g., 401 for Honors, 403 for supervised unit).

* . . . indicates elective courses, open to all students without prerequisite unless a special 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.

d . . . the letter "d," following a number, indicates a course of six-weeks' duration to be followed by an additional six weeks of independent supervised work.

[] . . . Square brackets enclosing the title of courses indicate that these courses are not given in the current year.

In general, courses 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 student's Class Dean and the Department concerned. One unit of work carried throughout the year is the equivalent of eight semester hours, or eleven quarter hours.

Haverford College courses are listed by number as they appear in the Haverford catalogue.

Anthropology

Professor: Frederica de Laguna, PH.D., *Chairman*

Associate Professor: Jane C. Goodale, PH.D.

Assistant Professor: Philip L. Kilbride, PH.D.

Lecturer: Charles C. Kolb, M.A.

Assistant: William S. Schneider, B.A.

Professor of Music: Agi Jambor, M.A. (Ethnomusicology)

Assistant Professor of German: Nancy C. Dorian, PH.D. (Linguistics)¹

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, 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, 204 or 208, 320a and two additional half-units of advanced (300) work, plus 399a & b (Senior Conferences). Two additional units of major or allied work are required, which may be taken at Bryn Mawr or Haverford.

Allied Subjects: Biology, Classical and Near Eastern Archaeology, Economics, English Literature, Geology, History of Art, History of Religion, Linguistics, Philosophy, Political Science, Psychology, Sociology.

101. *Man, Culture and Society:* Members of the Department.

Man's place in nature, human evolution, and the history of culture to the rise of early civilizations in the Old and New Worlds; forms of culture and society among primitive peoples. Both semesters are required for credit.

[102a.* *African Heritage:* Mr. Kilbride.]

203a. *Primitive Society:* Miss Goodale.

Social organization, introduction to theory; ethnographic methods and study of significant contributions. Prerequisite: Anthropology 101.

[204. *American Archaeology:* Mr. Kolb.]

1. On leave semester 11, 1971-72.

- 205a.* *Ethnomusicology*: Mme. Jambor.
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.
- 205b. *Techniques of Ethnomusicology*: Mme. Jambor.
The transcription and analysis of folk music with an emphasis on the music of non-Western peoples. The history and development of musical instruments. Prerequisite: Anthropology 205a.
208. *Old World Prehistory and Human Evolution*: Mr. Kolb.
Prerequisite: Anthropology 101, or permission of instructor.
- 302b. *Africa: Sub-Saharan Ethnology*: Mr. Kilbride.
A study of selected Sub-Saharan African societies and cultures, illustrating problems in Ethnography. Prerequisite: Anthropology 203a.
- 303b. *Oceania: Peoples of the Pacific Islands*: Miss Goodale.
A study of selected cultures and societies of the Pacific, illustrating problems in Ethnography. Prerequisite: Anthropology 203a.
- 304b. *The American Indian*: Miss de Laguna.
A comparative study of North American Indian cultures and societies, illustrating problems in Ethnography. Prerequisite: Anthropology 203a.
- 305a. *Latin America: Native Cultures of Central America*: Mr. Kilbride.
A study of selected cultures and societies of Latin America illustrating problems in Ethnography. Prerequisite: Anthropology 101, or juniors and seniors with permission of instructor.
- [306a. *Peasants*: Mr. Kilbride.]
- 320a. *History of Anthropology and Cultural Theory*: Miss de Laguna.
The development of Anthropology as a discipline and an examination of the important classical and modern contributions to cultural theory. Prerequisite: a half-unit of advanced (300) work.
- [321b. *Culture and Personality*: Miss de Laguna.]
- 322b. *Introduction to Physical Anthropology*: Mr. Kolb.
Prerequisites: Anthropology 204 or 208 and one 300-level course; juniors and seniors recommended by Departments of Biology, Geology or Psychology.

See also:

[Interdepartmental 308. *Introduction to Linguistics: Miss Dorian.*]

[Interdepartmental 310. *Introduction to Linguistic Techniques: Miss Dorian.*]

[Interdepartmental 312b. *Field Methods in Linguistics: Miss Dorian.*]

399a. *Senior Conferences:*

& b. The topic of each seminar will be determined in advance by discussion with students. Paper(s), an examination, and the quality of a student's participation in the seminar will form the basis for evaluation.

399a. Miss Goodale.

399b. Miss de Laguna.

401a. *Independent Work*

& b. Independent work is offered to seniors of marked ability for one or two semesters. If undertaken successfully, it may be credited as Honors work.

Interdepartmental Work: The Department of Anthropology participates in the Interdepartmental concentration in *Hispanic and Hispanic-American Studies*. See page 143.

Biology

Professors: Robert L. Conner, PH.D., *Chairman*
Jane M. Oppenheimer, PH.D.

Assistant Professors: Anthony R. Kaney, PH.D.
David J. Prescott, PH.D.
Allen C. Rogerson, PH.D.

Visiting Lecturer: Cicily Chapman-Andresen, D. PHIL.

Lecturers: Mary Jo Koroly, PH.D.
Jane R. McConnell, PH.D.
Joseph A. Orkiszewski, PH.D.
Patricia O. Pruett, PH.D., *Associate Dean*

Assistants: Margaret Dalesandro, A.B.
Carol Dennis, A.B.
Katherine Krause, A.B.

Assistant Professor of Chemistry: J. Maitland Young, PH.D.

The courses offered are designed to present the principles underlying biological science to liberal arts students interested in understanding the biotic world in which man lives and his own position in it. Primary consideration is devoted, both in class and in the laboratory, to the interplay of development, structure and function in determining the unity and diversity which characterize the plant and animal kingdoms, and to dynamic interrelationships of living organisms with each other and with their environment. Cell biology and cell physiology are particularly emphasized as unifying disciplines.

Requirements in the Major Subject: Biology 101 (unless exempted), 201a & b, 301a & b, and at least one other unit (two half courses) of advanced work, the Senior Conference, and Chemistry 101 and 202. Physics 101 and Mathematics 101 are strongly recommended as additional allied courses. Students should note that the ability to read French or German is essential for graduate work.

Allied Subjects: Chemistry, Physics, History of Science.

101. *General Biology:* Mr. Kaney, Mr. Rogerson, Miss Oppenheimer, Mr. Orkiszewski. Laboratory: Mrs. McConnell and assistants.

1. On leave for the year, 1971-72.

A presentation of the fundamental principles of cellular and organismic biology. A wide selection of plants and animals is studied to illustrate problems and theories dealing with living systems and their interaction with the environment. Lectures three hours, laboratory three hours a week.

201a. *Developmental Biology*: Miss Oppenheimer.

A study of the fundamental problems of animal development. Lecture three hours, laboratory four hours a week. Prerequisite: Biology 101 or permission of the Department.

201b. *Genetics*: Mr. Kaney.

A study of the fundamentals of heredity and gene action. Lectures three hours, laboratory four hours a week. Prerequisite: Biology 101 or permission of the Department.

301a. *Cellular Physiology*: Mr. Orkwiszewski.

A course devoted to a study of the activities of cells in terms of physical and chemical processes. The relationship of structure to function at the molecular, organellar and cellular levels is stressed. Lectures three hours, laboratory four hours a week. Prerequisites: Biology 201 and Chemistry 202 which may be taken concurrently.

301b. *Cellular and Molecular Biology*: Mr. Rogerson.

A study of cellular processes including the cell cycle and the regulation of protein and nucleic acid synthesis. Lectures three hours, laboratory four hours a week. Prerequisite: Biology 301a.

351a. *Problems in Genetics*: Mr. Kaney.

A seminar course dealing with a few of the recent advances in genetic theory. These topics will be covered in an in-depth analysis of the literature. Class meeting two hours a week. No laboratory. Prerequisite: Biology 201b, 301b.

352a. *Problems in Molecular Biology*: Mr. Rogerson.

A seminar course dealing with a limited number of current topics of interest in the fields of cellular and molecular biology. Class meeting two hours a week. No laboratory. Prerequisite: Biology 301b.

353. *Biochemistry*: Mr. Conner, Miss Koroly, Mr. Prescott.

(INT.) The chemistry of living organisms with special emphasis on the

chemical principles in physiological phenomena. Lectures three hours, laboratory six hours a week. Prerequisites: Chemistry 202 and Biology 301 or permission of the Department. Physics 101 and Mathematics 101 are recommended.

- 354b. *Bacteriology and Immunology*: Mr. Orkwiszewski.

An introduction to bacterial physiology and a consideration of immune responses to infectious disease. Lectures three hours, no laboratory. Prerequisites: Biology 301b, Chemistry 202.

- 355b. *Problems in Developmental Biology*: Miss Oppenheimer.

A discussion course dealing in depth with one or two topics of contemporary interest. Class meeting two hours a week. No laboratory. Prerequisites: Biology 201a & b or their equivalent and Biology 301b (the latter may be taken concurrently).

- [356. *Biophysics*: Miss Hoyt.]

- 357b. *Computer Usage in the Life Sciences*: Mrs. Pruett.

(INT.)

Experiments in the Life Sciences will be analyzed using computer techniques. The Fortran IV Language will be developed and used throughout the course. Limited to advanced students with research experience; no previous training in the use of the computer required. Lecture two hours, laboratory two hours.

- 358a. *Problems in Plant Physiology*: Mr. Orkwiszewski.

Topics dealing with the regulation of plant growth and development.

Senior Conferences: All seniors meet at biweekly intervals throughout the year to discuss assigned reading in prescribed areas of Biology. These seminars are intended to relate materials from various sub-disciplines of Biology to each other, to examine subjects of current biological interest, and to relate the field to the larger aspects of society. The method of evaluating the work will be determined in consultation between the seniors and the Department.

Honors Work: All qualified students are encouraged to do Honors work in one of the advanced fields. This entails one unit of laboratory work on an independent experimental research problem.

Teaching Certification: A sequence of work offered by the Department of Biology and the Department of Education of the College leads to a certificate to teach in the secondary schools of Pennsylvania.

Chemistry

Professors: Ernst Berliner, PH.D., *Chairman*

Frank B. Mallory, PH.D.

George L. Zimmerman, PH.D.

Associate Professors: Jay Martin Anderson, PH.D.¹

Joseph Varimbi, PH.D.¹

Assistant Professor: J. Maitland Young, PH.D.¹

Visiting Lecturer: Harmon C. Dunathan, PH.D.

Lecturers: Linda R. Bateman, PH.D.

Frances Bondhus Berliner, PH.D.

Assistants: Donna Amenta, M.A.

Robert J. Ferguson, B.S.

Barry N. Lurie, A.B.

Edyth L. Malin, M.A.

Lynn Penn, M.A.

Assistant Professor of Biology: David J. Prescott, PH.D.

Lecturer in Biology: Mary Jo Koroly, PH.D.

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, the three 200 courses, one unit of advanced work and the Senior Conference. Physics 101 and Mathematics 101 are also required, and a reading knowledge

1. On leave for the year, 1971-72.

of German is recommended. 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 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.
201. *Inorganic Chemistry:* Mrs. Bateman.
Correlations of chemical and physical properties based on the Periodic Table; structures of inorganic compounds; equilibria in acid-base and complex-ion systems. Laboratory work includes analytical techniques, synthesis, purification, and characterization of a variety of compounds by chemical and instrumental methods. Three lectures, five hours laboratory a week.
202. *Organic Chemistry:* Mr. Berliner, Mr. Mallory.
First semester: aliphatic chemistry; second semester: aromatic chemistry and natural products. Three lectures, five hours laboratory a week.
203. *Physical Chemistry:* Mr. Zimmerman.
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:* Mrs. Bateman.
Two lectures a week.
- 302a. *Advanced Organic Chemistry:* Mr. Berliner, Mr. Mallory.
& b. 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.

- 303a. *Advanced Physical Chemistry*: Instructor to be announced.
& b. Two lectures and one conference, five hours laboratory a week. Prerequisites: Chemistry 203, Mathematics 201 or its equivalent.
353. *Biochemistry*: Mr. Conner, Miss Koroly, Mr. Prescott.
(INT.) (See Biology 353.)
- [356b. *Biochemical Mechanisms*: Mr. Dunathan (at Haverford).]
Prerequisite: Chemistry 202.

Senior Conference: Students survey the recent chemical literature and prepare written reviews on specific topics chosen in accordance with their own interests. These reviews are also made the subjects of oral presentations at seminar meetings held throughout the year, and attended by both seniors and faculty.

Honors Work: Honors work may be taken by qualified students in conjunction with any of the advanced courses.

Teaching Certification: A sequence of work offered by the Department of Chemistry and the Department of Education of the College leads to a certificate to teach in the secondary schools of Pennsylvania.

Classical and Near Eastern Archaeology

Professors: Machteld J. Mellink, PH.D., *Chairman*
Brunilde S. Ridgway, PH.D.

Katharine E. McBride Visiting Professor: Lillian H. Jeffery, PH.D.

Associate Professors: Carl Nylander, PH.D.
Kyle M. Phillips, Jr., PH.D.

Assistant: Kathleen W. Slane, A.B.

The major courses provide an extensive survey of the ancient Mediterranean and Near Eastern civilizations, with emphasis on Greek art and archaeology.

Requirements in the Major Subject: Archaeology 101, 201b or 204b, 203, 205b, 301 and the Senior Conferences. All majors are urged to

take Greek and Ancient History.

Allied Subjects: Ancient History, Anthropology, Greek, History of Art, Latin, Akkadian.

101. *An Introduction to Ancient Art:* Mrs. Ridgway.
An historical survey of the art of the Ancient Near East, Greece and Rome. Three hours of classes, one hour of informal discussion.
- [201b. *Egypt and Mesopotamia before 1600 B.C.:* Miss Mellink]
- 202b. *Ancient Cities of the Near East and Greece:* Mr. Nylander, Mrs. Ridgway.
An archaeological and historical analysis of excavated cities; structure, principles, development. Near Eastern, Egyptian, Greek and Hellenistic cities will be studied.
- 203a. *Greek Sculpture:* Mrs. Ridgway.
The development of Greek sculpture through the Hellenistic period.
- 204b. *Egypt and Mesopotamia from 1600-546 B.C.:* Miss Mellink.
The archaeology of the Ancient Near East (including the Levant, Anatolia, and Iran) from the Hyksos period to the Persian dynasty.
- 205b. *Aegean Archaeology:* Mr. Nylander.
The pre-Greek and early Greek cultures of the Aegean area: Minoan Crete, Troy, the Aegean Islands, Mycenaean Greece and their overseas connections.
- 301a. *Greek Vase-Painting:* Mr. Phillips.
Greek vase-painting as an original form of art, its relation to other arts, and its place in archaeological research.
- [301b. *Greek Architecture:* Mrs. Ridgway.]
- 302b. *Roman Architecture:* Mr. Phillips.
Emphasis will be placed upon architecture of the Late Republican Period and of the first three centuries of the Roman Empire.
- 304a. *Ancient Monumental Painting:* Mr. Phillips.
The arts of wall-painting and mosaics in Greece and Italy.

Senior Conference: Weekly two-hour seminars for which readings are assigned and reports are prepared. Subjects to be announced. Semester I: Miss Jeffery, Mr. Nylander; Semester II: Miss Mellink and Mr. Phillips.

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.

Interdepartmental Work: The Department of Classical and Near Eastern Archaeology participates in the Interdepartmental majors: *Classical Studies* and *Growth and Structure of Cities*. See pages 139 and 141.

Excavations: The Department has two excavation projects. The excavation of Karatash-Semayük in Lycia (Turkey) is conducted as a field seminar in the fall, with full credit for graduate students and seniors by invitation. The second project, the excavation of an Etruscan archaic site at Murlo near Siena, takes place during the summer on a non-credit basis for graduate and undergraduate students of archaeology.

Economics

Professor: Joshua C. Hubbard, PH.D., *Chairman*

Associate Professors: Richard B. Du Boff, PH.D.¹
Noel J. J. Farley, PH.D.

Lecturers: Helen Manning Hunter, PH.D.
Susan Wachter, M.A.

At Haverford

President: John R. Coleman, PH.D.

Professor: Holland Hunter, PH.D.

Assistant Professors: Vernon J. Dixon, M.S.
Samuel Gubins, PH.D.²

Lecturer: Janet S. Young, B.A.

The major in Economics consists of courses given at Bryn Mawr and Haverford. It is designed to provide an understanding of economic processes and institutions and the interactions among the economy, politics and social structure; to train students in the methods used to analyze those processes and institutions; and to enable them to make policy judgments.

Requirements in the Major Subject: Economics 101a or 101b, three units of intermediate and advanced work (including at least one unit of 300 level courses) and the Senior Conference. The 101 course is 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, which will count as part of their allied work.

1. On leave semester 1, 1971-72.

2. On leave for the year, 1971-72.

Prospective majors in Economics are advised to take Economics 101a or 101b in the freshman year.

Allied Subjects: Mathematics, Political Science, History, Philosophy, Psychology, Sociology, Anthropology.

101a. *Introduction to Economics:* Members of the Department.

Study of the principles determining national income and employment with minimum instability, individual prices, and incomes; and their application to international economic affairs. This course will be repeated in the second semester as 101b.

[201a. *Economic History and Development:* Mr. Du Boff.]

202b. *Latin American Development:* Mrs. Wachter.

An analysis of factors contributing to the economic underdevelopment of Latin America and of their sources both in the historical background and in current policies.

203a. *Economic Accounting:* Mr. Dixon (Haverford).

An introduction to theory and practice of classifying, recording and evaluating the activities of business firms and the sectors of the economy. Brief treatment of the accounting cycle, corporate reports and the integrated system of national accounts, inter-industry accounts and some concepts in social accountings.

204b. *The Modern Corporation:* Mr. Coleman (Haverford).

205a. *Private Enterprise and Public Policy:* Mrs. Wachter.

An analysis of business firm behavior and industrial markets in the U. S.; evaluation of the performance of these markets; social and political implications of public regulation of private enterprises. Prerequisite: Economics 101a or 101b.

206b. *International Economic Theory and Policy:* Mr. Farley.

Current problems in international trade. The theory of trade. The balance of payments and theory of disturbances and adjustment in the international economy. Economic integration. The impact of growth in rich and poor countries on the development of the world economy. Prerequisite: Economics 101a or 101b.

- 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 or 101B.
- 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 means of achieving a stable full-employment economy. Prerequisite: Economics 101A or 101B.
- 209a. *Economics of Urban Poverty*: Mrs. Young (Haverford).
Study of economic aspects of urban poverty problems, investment in human resources, financing of urban services, relations between income and earnings; theoretical and empirical analysis of benefits and costs of poverty programs. Prerequisite: Economics 101A or 101B.
- 210a. *The Soviet System*: Mr. Hunter (Haverford).
(INT.) An analysis of the structure and functioning of major Soviet economic, political and social institutions. Current conditions are studied as products of historical development. Prerequisite: two semester courses in Economics, Political Science or History.
- 212b. *Political Economy*: Mr. Du Boff.
An analysis of contemporary capitalism as a socio-economic system. Free market, Keynesian, Marxist and socialist theories are appraised. Prerequisite: Economics 101A or 101B.
- 214b. *Economics of Minorities*: Mr. Dixon (Haverford).
Examination of contemporary economic theories and policies for positive and negative impact on minority groups, with primary focus upon Black people.
- [216b. *Western European Economic Development*: Mr. Du Boff.]
- [218b. *Labor Resources*: Mr. Coleman.]
- 220b. *Mathematics for Economists*: Mr. Farley.
Mathematical techniques—derivatives, differentiation—difference and differential equations, integration, vector and matrix analysis and selected applications of these tools to economic problems.
- 300b. *Human Resources, Poverty and Urban Economics*: Mrs. Young (Haverford).
Independent empirical research on selected manpower development,

poverty, and urban problems of the Philadelphia region. Weekly seminars will be concerned with problems of research. Prerequisite: Economics 209a or permission of the instructor.

301a. *Statistical Methods in Economics*: Mrs. Hunter.

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 or 101b.

302b. *Introduction to Econometrics*: Mrs. Hunter.

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. *Macroeconomic Analysis*: Mr. Hubbard.

Rigorous review of the theoretical foundations of income determination, monetary phenomena, and economic fluctuations. Introduction to dynamic processes. Prerequisite: Economics 101a or 101b.

304b. *Microeconomic Analysis*: Mr. Farley.

Systematic investigation of analytic relationships underlying consumer welfare, efficient resource allocation, and ideal pricing. Introduction to operations research. Prerequisite: Economics 101a or 101b.

305b. *Development Analysis*: Mr. Hunter (Haverford).

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 or 101b.

307b. *Communist Development*: Mr. Hunter.

Prerequisite: Economics 210a or permission of the instructor.

311a. *International Economics*: Mr. Farley.

Student research will involve constructing measures of recent developments between trading nations, testing hypotheses using existing data and current statistical techniques, or attempting extensions of

international trade theory. Prerequisite: Economics 206b or permission of the instructor.

Senior Conference: Weekly two-hour seminars for which readings are assigned and reports are prepared. Semester I: economic theory; Semester II: topic to be chosen by the students. Each student will have the option of writing a paper or taking an examination.

Honors Work: One unit of Honors work may be taken by students recommended by the Department.

Interdepartmental Work: The Department of Economics participates in the Interdepartmental concentration in *Hispanic and Hispanic-American Studies*. See page 143.

Teaching Certification: A sequence of work offered by the Department of Economics and the Department of Education of the College leads to a certificate to teach in the secondary schools of Pennsylvania.

Education

Professors: Ethel W. Maw, PH.D., *Chairman*

Janet L. Hoopes, PH.D., *Director, Child Study Institute*

Associate Professor and Director, Thorne School:

Susan E. Maxfield, M.S.

Assistant Professors: Emmy A. Pepitone, PH.D.

Faye P. Soffen, PH.D.

James J. Tracy, PH.D.

Instructor: Beth M. Riser, 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.

The Thorne School is maintained by the Department as a laboratory for child study where undergraduates have experience with young children. The pre-kindergarten program, in which advanced students assist, provides training for those planning to teach.

The Department also operates the Child Study Institute. This is a mental health service supported by the College, by the Lower Merion Township Schools and by fees. 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 and at the Institute.

101b. *The Social Foundations of Education*: Mrs. Pepitone.

Examination of educational institutions, their objectives, organization, interrelationships within segments of the school and with segments of society in the light of relevant theories from sociology, social psychology and child development.

[102b. *History and Philosophy of Education*: Mrs. Pepitone.]

201a. *Educational Psychology*: Mrs. Maw.

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. Prerequisite: General Psychology.

206a. *Child Psychology*: Mr. Tracy.

The development of the child from infancy through the latency period. Physical, intellectual and emotional growth and learning in family and the school. Three hours lecture a week. Students do laboratory work in centers serving young children. Cooperating centers include the Thorne School, agencies serving neglected children and nursery schools for disadvantaged children. Prerequisite: Psychology
101a.

301a. *Principles of Teaching in the Secondary School*: Mrs. Maw.

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; student teaching in the junior or senior high school.

302a. *Principles of Teaching in the Elementary School*: Mrs. Maw.

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; student teaching in the elementary school.

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 and in the major field or fields. 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 Psychology 101 followed by the Social Foundations of Education, Educational and Child Psychology. Required of all is Principles of Teaching in the Secondary School which includes as its laboratory supervised student teaching in the public school.

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.

Selected Graduate Seminars: For certain undergraduates who have taken Child Psychology or Educational Psychology the following graduate seminars are open upon the consent of the instructor with the permission of the Dean of Graduate School of Arts and Sciences.

Critical Issues in Child Development: Miss Hoopes.

Adolescent Development: Miss Hoopes.

Psychology of Exceptional Children: Mrs. Riser.

Diagnosis and Remediation of Learning Deficit: Mrs. Riser.

English

Professors: Robert B. Burlin, PH.D., *Chairman*

K. Laurence Stapleton, A.B.

Professor of English and the Performing Arts: Robert H. Butman, M.A.

Associate Professors: Thomas H. Jackson, PH.D.¹

Joseph E. Kramer, PH.D.

Assistant Professors: Roger W. Cummins, PH.D.¹

June Q. Koch, PH.D.

Sandra I. Kohler, PH.D., *Class Dean*

Clifford Earl Ramsey, PH.D.

Lecturers: Sandra M. Berwind, PH.D.

Katrin R. Burlin, M.A., *Class Dean*

Robert Lee, M.A.

Christie Lerch, PH.D.

Anthony J. Litwinko, M.A.

Ramona T. Livingston, A.B.

Adrienne Lockhart, M.A.

Irma S. Lustig, PH.D.

Instructors: Katherine Janowitz, M.A.

Anne Mendelson, M.A.

The Department offers an opportunity to explore all periods of English literature. Through comprehensive reading as well as close analysis, the major in English seeks to develop a historical perspective, critical and writing abilities, and an understanding of the imaginative process.

Requirements in the Major Subject:

Prerequisite: English 101 (Bryn Mawr or Haverford) or its equivalent. Four second-year or advanced units in English literature and the Senior Conference.

At least one full unit must be at an advanced (300) level.

At least one-half unit must be in the literature of the Middle Ages (201, 209, 300, 301).

One unit of work at Haverford College, beyond English 101, may be offered for major credit.

1. On leave semester 1, 1971-72.

Allied Subjects: Majors are urged to build a strong ally in classical or modern literature, History, Philosophy, or History of Art. Other courses in Music, History of Religion, Political Science, Sociology and Linguistics may also be counted. A second-year writing course may be substituted for one unit of allied work.

Students contemplating graduate work in English are reminded that most graduate schools require a reading knowledge of French and German, and frequently Latin as well, for the Ph.D.

015. *English Composition and Reading:* Members of the Department.

Training in writing discursive prose, with emphasis on the critical analysis of a few works by selected authors. There will be weekly papers, two class meetings a week, and regular conferences. The student will select one of the following offerings:

- a. Readings in Twentieth Century literature.
- b. Readings in Nineteenth and Twentieth Century English and American literature.
- c. Tragic Themes and Forms (chiefly nineteenth and twentieth century selections).
- d. Innocence and Experience (readings from the eighteenth, nineteenth and twentieth centuries).
- e. Readings in English Literature. In this section there will be three class meetings a week as well as more reading. This section of the course may be substituted for the prerequisite to the English major.

Writing Courses

In the following courses weekly papers are required. Students who cannot meet these requirements should not elect any of these courses.

291a.* *Experimental Prose Writing:* Mr. Litwinko.

- & b. Each student will attempt to develop a personal idiom which is imaginative and disciplined. Weekly exercises, group evaluations, and readings in both traditional and avant-garde fiction are required. Prerequisite: Permission of the instructor.

[292a.* *Fiction Writing.*]

& b.

[293.* *Advanced Writing.*]

- 295a.* *Verse Composition*: Miss Stapleton.
& b. Original verse composition, with a study of form.
- 298a.* *Playwriting and Production*: Mr. Butman.
Writing of two original one-act plays.
- 298b.* *Advanced Playwriting and Production*: Mr. Butman.
Writing of a full-length play and preparation of its production-book.
Prerequisite: Approval of the instructor.

Literature

- 101a. *Major Works in English Literature*: Mrs. Janowitz, Mrs. Kohler, Mrs. & b. Lockhart, Mr. Ramsey, Mr. Ransom, Mr. Rose.
This prerequisite to the English major, taught jointly at Haverford and Bryn Mawr, is the critical study, in chronological sequence, of major works by major authors, including Chaucer, Spenser, Shakespeare, Milton, Pope and Wordsworth, plus a major novel. The emphasis will be on close reading, and the continuity of traditions and modes in English and American literature.
- 201a. *Chaucer and His Contemporaries*: Mr. Burlin, Mrs. Lockhart.
& b. The first term will be devoted to a close reading of the *Canterbury Tales*. The second term will concentrate upon Chaucer's early poems and the *Troilus*, with supplementary readings from the Middle English period.
- [209b. *Medieval Narrative: From Beowulf to Malory*: Mr. Burlin.]
- 210a. *Literature of the Sixteenth Century*: Mrs. Kohler.
& b. In the first semester emphasis will be placed on lyric poetry, with special attention to the sonnet sequences, the literary theories of Sidney's *Apology*, and Sidney's *Arcadia*. In the second semester, a close reading of *The Faerie Queene* will be the major endeavor.
- 225a. *Shakespeare*: Mr. Kramer.
& b. (a) From *Titus Andronicus* to *Hamlet* (ca. 1589-1600). The non-dramatic poetry of Shakespeare will be read with specific reference to illuminating the dramas.
(b) From *Troilus and Cressida* to *Henry VIII*.

- [228a. *Modern Drama*: Mr. Kramer.]
- [240a. *Restoration and Eighteenth Century Literature*: Mr. Ramsey.]
& b.
- [251b. *The Romantic Poets: First Generation*: Mrs. Koch.]
- 252b. *The Romantic Poets: Second Generation*: Mrs. Koch.
A close study of the poetry of Byron, Shelley and Keats, with emphasis on the Romantic symbol and myths of psychic and social process.
- 254a. *Victorian Literature*: Mr. Litwinko.
A reading course with major emphasis given to the dramatic monologue and the social writing of the period. Selections from Carlyle, Tennyson, Browning, Swinburne, Ruskin and others.
- [257a. *Nineteenth Century English Novel*: Mrs. Lockhart.]
& b.
- 258b. *Studies in the Nineteenth Century Novel*: Mrs. Janowitz.
Reading of selected nineteenth century novels with a concentration on the work of Dickens.
- 260a. *American Literature*: Mr. Lee.
& b. The development of American literature from the colonial period to the present, with intensive study of major authors and prominent themes. Some attention will be given to American intellectual history.
- 264b. *Twentieth Century American Literature*: Mr. Lee.
A study of representative figures and movements, with an emphasis on Black literature.
- 270a. *Twentieth Century Literature*: Mrs. Berwind.
& b. A study of writers of the first half of the century who have changed our ways of reading the literature of the past, or contributed to our understanding of the period in which they wrote. Works by James, Yeats, Joyce, Eliot, Forster, Lawrence, Woolf, Stevens and Orwell will be included.
- 285b. *The Art of Biography*: Mrs. Lustig.
Critical problems of biography from St. Augustine to the present, and of the ways an artist sees himself and renders his experiences

imaginatively. There will be a basic reading list and an independent project.

The following courses are open primarily to advanced students; enrolment will be restricted at the discretion of the instructor.

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*.
- 301b. *Readings in the Middle English Literature*: Mr. Burlin.
Texts will be chosen to suit the interests and abilities of the group; Romances, Lyrics and Drama; *Piers Plowman*, Gower, Lydgate, Malory and the Scottish Chaucerians.
- [321a. *English Drama to 1642*: Mr. Kramer.]
& b.
- 323a. *Renaissance English Tragedy*: Mr. Kramer.
Specimen tragedies of Marlowe, Chapman, Jonson, Webster, Middleton, Tourneur, Ford and Shirley will be read closely in the context of theatrical developments from 1580-1642.
- [325a. *Studies in Shakespeare*: Mrs. Kohler.]
- [330a. *The Seventeenth Century*: Miss Stapleton.]
& b.
- 341b. *The Augustan Age*: Mr. Ramsey.
Close analysis of selected masterpieces of the major Augustan writers. Pope and Swift will receive the main emphasis.
- 352a. *Theory and Structure in the Poetry of the Nineteenth Century*: Mrs. Koch.
A study in theory and method in the poetry of Wordsworth, Coleridge, Shelley, Tennyson, Arnold and Hopkins. Particular emphasis will be placed on the function and significance of recurrent patterns of structure, both spatial and temporal.
- [354b. *Selected Victorian Texts*: Mr. Litwinko.]
- 355b. *Studies in Victorian Poetry*: Mr. Litwinko.
An intensive study of the long poem and poetic drama of the

period. Selections from Tennyson, Clough, Browning, Arnold, Meredith, Rossetti and Swinburne.

[371a. *Post-Romantic to Early Modern in English Poetry*: Mr. Jackson.]

[382b. *Pastoral and Landscape Literature*: Mr. Ramsey.]

384a. *Approaches to the Theory and Practice of Fiction*: Mrs. Lockhart.

Studies in the criticism of fiction, concentrating on the varieties of forms of fiction and the theories of writers themselves. Some novels will be read in conjunction with critical works.

[389b. *Studies in Twentieth Century Criticism*: Mr. Jackson.]

Senior Conference: The Senior Conference will continue for the entire year and will focus upon a core of reading, determined in advance by the two instructors for each semester. The reading will consist of substantial and significant works drawn from all periods of English and American literature, ranging from the late medieval period to the modern.

Majors in English will be expected to know the works in advance—either through course work or summer reading. The conferences will consider kinds of critical approaches to these works and will demand further reading, as well as reports by the students. A work may be considered in its historical context (political, philosophical, occasional background); in the context of other works by the author (for both thematic and formal comparison); in the context of other works of the same period; and, for structural and generic studies, in the context of the entire spectrum of English and American literature. Concurrently the student will become acquainted with examples of practical and theoretical criticism which exemplify these various approaches.

At the end of the year the students will be examined by a committee of three members of the Department *not* involved in supervision of the conference. The examination will be written; questions will be of a broad sort that will allow for many kinds of exemplification as well as intelligent use of supplementary and secondary reading. The student will also be allowed two other options. With the approval of the instructors, she may present a paper of approximately twenty pages on a topic of her choosing related to the core reading. (Such an alternative will have to be decided upon early in the second semester and be contingent upon full participation in the seminar work.) Secondly, the

student may present herself to the Examination Committee for a fifty-minute oral examination. The grade for the year will be determined by the Examination Committee in consultation with the conference instructors.

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 the Friday two weeks before the end of classes.

Teaching Certification: A sequence of work offered by the Department of English and the Department of Education of the College leads to a certificate to teach in the secondary schools of Pennsylvania.

French

Professors: Michel Guggenheim, PH.D., *Chairman*¹

Mario Maurin, PH.D.²

Visiting Professor: William Roach, PH.D.

Associate Professors: Gérard Defaux, *Agrégé*

Pauline Jones, PH.D., *Acting Chairman, Semester I*

Assistant Professor: Catherine Lafarge, PH.D.

Lecturers: Charles Altman, M.A.

Margaret Maurin, PH.D.

Marion Masiuk, M.A.

Judith McFadden, A.B.

Annette Palmer, M.A.

Assistant: R. Bruce Dutton, A.B.

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. Second-year courses treat French literature from the beginning to the present day. In these courses, students whose command of written

1. On leave semester I, 1971-72.

2. On leave semester II, 1971-72.

French is inadequate will be required to attend regularly sessions devoted to special training in writing French. A second-year half-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 001, 002-and 205c, 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, four semesters of 200-level courses, one advanced literature course and the Senior Conference. Students whose preparation for college has included advanced work in language and literature may, with consent of the Department, substitute a more advanced course for French 101. Occasionally, students may be admitted to seminars in the Graduate School. Such arrangements are made at the suggestion of the Department, with the approval of the Dean of the Graduate School of Arts and Sciences.

All French majors are expected to have acquired fluency in the French language (written and oral). When necessary, they will be required to take French 205c.

Allied Subjects: Any other language or literature, European History, History of Art, Music, Philosophy.

001. *Elementary French:* Members of the Department.

The speaking and understanding of French are emphasized, particularly during the first semester. The course meets five times a week.

002. *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.

101. *Readings in French Literature with Practical Exercises in the French Language:* Members of the Department.

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.

- 201a. *French Literature of the Seventeenth Century*: Mr. Maurin.

The course will cover representative authors and literary movements. Special attention will be given to the concept of the Baroque, the development of Tragedy and the Age of Classicism.

- 201b. *French Literature of the Eighteenth Century*: Mr. Defaux.

The course will include texts representative of the Enlightenment and the Preromantic movement, with emphasis upon the development of liberal thought as illustrated in the *Encyclopedie* and the works of Montesquieu, Voltaire, Diderot, and Rousseau.

- 202a. *French Literature of the Nineteenth Century*: Miss Jones, Miss Lafarge.

The poetry, drama and prose of Romanticism. A study of representative novelists such as Stendhal, Balzac, and Flaubert. Poetry in the second half of the century: the aesthetics of the Parnasse, Baudelaire, the Symbolist movement.

- 202b. *French Literature of the Twentieth Century*: Mr. Guggenheim, Miss Jones.

A study of selected works illustrating the principal literary movements from the turn of the century to the present. Gide, Proust, Valéry, Claudel, Surrealism, Existentialism, the Theater of the Absurd, the New Novel.

- 203a. *French Literature of the Middle Ages*: Mr. Defaux.

A study, through selected works read in modern French versions, of the main literary genres of medieval literature: epic and lyric poetry, *roman courtois*, satire, historical chronicles, religious and comic theater.

- [204a. *French Literature of the Sixteenth Century*: Mr. Defaux.]

- 205c. *Advanced Training in the French Language*: Miss Jones, Miss Lafarge.

Intensive practice in writing and speaking the language. Compositions, literary translations, oral reports and discussions.

290. *The Civilization of France*: Mr. Silvera.

(INT.) Conducted in French, this course studies the development of modern French life and culture in its historical context and explores the values and attitudes of French society as manifested in literature and the arts,

politics, education and religion. Prerequisite: a good command of French. Serves as the introductory course for French Studies majors but open to other qualified students.

[301. *French Lyric Poetry.*]

[302. *French Drama.*]

[303. *The French Novel.*]

304a. *Baudelaire*: Miss Jones.

304b. *Le Roman du XIXe siècle*: Miss Lafarge.

305a. *Gide, Camus*: Mr. Maurin.

305b. *Ecrivains engagés de Montaigne à Sartre*: Mr. Guggenheim.

Courses at Haverford

301a. *Céline, Beckett*: Mr. McCarthy.

301b. *Proust*: Mr. Cook.

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 France under one of the junior year plans, such as those organized by Hamilton, Sarah Lawrence, Smith, Sweet Briar Colleges, or l'Académie.

Summer Study: Students wishing to enroll in a summer program may apply for admission to the *Institut d'Etudes Françaises d'Avignon*, held under the auspices of Bryn Mawr. The *Institut* is designed for selected men and women undergraduate and graduate students 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, social sciences, 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.

Senior Conference: A weekly seminar (*Travaux pratiques de critique littéraire*) followed at the end of the year by an oral explication of a

French literary text and a three-hour written examination on a period of French literature.

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.

Interdepartmental Work: The Department of French participates in the Interdepartmental major: *French Studies*. See page 140.

Teaching Certification: A sequence of work offered by the Department of French and the Department of Education of the College leads to a certificate to teach in the secondary schools of Pennsylvania.

Geology

Associate Professor: Lucian B. Platt, PH.D., *Chairman*

Assistant Professors: Maria Luisa B. Crawford, PH.D.

William A. Crawford, PH.D.

W. Bruce Saunders, PH.D.

Assistants: Lynn David Haynes, B.S.

John LaNeve Molinary, B.S.

Research Associate: Edward H. Watson, PH.D., *Professor Emeritus*

The Department seeks to make students more aware of the physical world around them. The subject includes a study of the nature of the materials of which the world is made, of the physical processes which have formed the earth, especially near the surface, of the history of the earth and its organisms, and of the various techniques necessary to investigate earth processes and history. 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 outside the classroom, in field work.

Requirements in the Major Subject: Geology 101, 201, 202a, 204a, one advanced unit. 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. In addition, the Senior Conference is required.

Allied Subjects: Biology, Chemistry, Physics, Mathematics. Anthropology, Archaeology, Economics or Statistics may be accepted in special cases.

- 101a. *Physical Geology:* Mr. Platt, Laboratory: Mrs. Crawford, Mr. Crawford.

A study of materials and structures of the earth; surface and near-surface processes such as the action of streams, glaciers, and volcanoes; and of the features to which they give rise. Three lectures, four hours laboratory or field work a week.

- 101b. *Historical Geology:* Mr. Platt. Laboratory: Mr. Crawford, Mr. Saunders.

The history of the earth from its beginning, and the evolution of the living forms which have populated it. Three lectures, four hours laboratory or field work a week. A three-day field trip is taken in the spring. Prerequisite: Geology 101a or equivalent.

- 201a. *Crystallography:* Mrs. Crawford.

The study of crystal systems and space groups, optical crystallography and crystal chemistry. The emphasis will be on the relation between the physical properties of crystalline substances and their structures and chemical constitution. Three-hour lecture, four-hour laboratory a week. Prerequisite: Permission of instructor.

- 201b. *Mineralogy:* Mrs. Crawford.

Descriptive and determinative mineralogy and mineral paragenesis. Three-hour lecture, four-hour laboratory a week. Prerequisite: Geology 201a.

- 202a. *Invertebrate Paleontology:* Mr. Saunders.

A systematic survey of animal groups in geologic time, with emphasis on their morphology, ecology and evolution. Three lectures, three-hour laboratory a week. Prerequisite: Geology 101 or permission of instructor.

- [203b. *Physiography:* Mr. Crawford.]

- 204a. *Structural Geology:* Mr. Platt.

Recognition and description of deformed rocks; introduction to mechanics and patterns of deformation. Three lectures and three hours

laboratory or field work a week. Prerequisite: Geology 101 or permission of instructor.

[302a. *Stratigraphy*: Mr. Platt.]

302b. *Advanced Paleontology*: Mr. Saunders.

Principles, theory and application of various aspects of paleontology such as evolution, biostratigraphy. Laboratory project-oriented, to include practical applications dependent on student and instructor's particular areas of interest. Three lectures, three hours of laboratory each week (with occasional augmentation by field work). Prerequisite: Geology 202a or permission of instructor.

[303a. *Thermodynamics and Crystal Chemistry for Geologists*:
Mr. Crawford.]

303b. *Geochemistry*: Mr. Crawford.

A review of selected topics in geochemistry. The laboratory consists of wet chemical and instrumental methods of analysis of silicate materials and natural waters. Two lectures and four hours laboratory a week. Prerequisite: Geology 303a or permission of instructor.

304. *Introduction to Petrology*: Mr. Saunders, Mrs. Crawford, Mr. Crawford.

The origin, mode of occurrence and distribution of sedimentary, igneous and metamorphic rocks. The laboratory will include hand specimen, microscopic, X-ray, and chemical study of the various rock types. Two lectures and four hours laboratory a week. Prerequisites: Geology 101, 201.

[305b. *X-ray Crystallography*: Mrs. Crawford.]

Certain graduate courses are open to properly trained undergraduates with the approval of the Dean of the Graduate School of Arts and Sciences.

Senior Conference shall consist of:

1. "Topics in Geology," led by members of the Department.
2. A written report on an independent project in the field, laboratory or library.

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.

German

Professor: Hans Bänziger, PH.D., *Chairman*

Associate Professor: Marie G. Flaherty, PH.D.

Assistant Professors: Nancy C. Dorian, PH.D.¹

James W. Scott, PH.D.

Lecturer: Katrin T. Bean, PH.D.

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 001 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 001 and 201 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.

The German Departments of Bryn Mawr College and Haverford College cooperate to offer the widest possible range of courses to students in both colleges. Consult the Haverford College Bulletin for courses offered.

Requirements in the Major Subject: The normal course sequence for the major is German 101, 201a or b, 202, 300a, and at least one other advanced unit. The Senior Conference is also required. 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.

001. *Elementary German* (Speaking and Reading): Members of the Department.

The course offers the foundation of the language with emphasis on the aural-oral method. Increased importance is given to reading as the course progresses.

1. On leave semester II, 1971-72.

101. *Readings in German Literature*: Members of the Department.
Continued practice in speaking and writing. Reading and discussion of selected works of German literature, including poetry, novellae, and drama. Emphasis will be on nineteenth and twentieth century authors.
- 201a. *Advanced Training in the German Language*: Mrs. Bean, Mr. Bänziger.
& b. Advanced training in speaking, writing, translating; stylistic exercises; reading of non-fictional material; oral reports and discussions; compositions. In the second semester the emphasis will be on the spoken language. Short plays will be read and possibly produced.
- 202a. *Goethe and Schiller*: Miss Flaherty.
Representative works will be read and examined closely. Special attention will be given to their historical and aesthetic backgrounds as well as their position in the history of German literature.
- 202b. *Romanticism*: Miss Flaherty.
A study of works by Novalis, Tieck, Hoffmann, Kleist, Brentano and Eichendorff with emphasis on their relationship to the major artistic, intellectual and social trends of the time.
- 300a. *A Survey of German Literature*: Mr. Bänziger.
In the form of lectures, this course is intended to provide the literary-historical background (from the Middle Ages to the present) for studies in German literature.
- [301b. *Introduction to Germanic Philology*: Miss Dorian.]
- 302a. *Vernacular Literature in Medieval Germany*: Mr. Scott.
The appearance and development of literature in German will be studied with concentration on the generation writing after the year 1200. Works will be read in Medieval German and modern German or English translation.
- [303b. *The Modern German Novel*: Mr. Scott.]
- 304b. *The German "Novelle"*: Mr. Scott.
The theory and practice of this literary genre and its relationship to nineteenth-century German culture.
- [305. *The German Drama*: Mr. Bänziger.]
- [306a. *German Poetry*: Mr. Bänziger.]

Courses at Haverford

355a. *Studies in German Lyric Poetry*: Mr. Stiefel.

359a. *Kleist and Kafka*: Mr. Cary.

In translation: 273a *Three Cosmologies*

278b *The Expressionistic Movement*.

Senior Conference:

Each major is expected (1) to write a paper under the supervision of a member of the department, (2) to participate in a conference during the second semester, (3) to take an oral examination on the topics discussed in the conference at the end of the year.

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.

Teaching Certification: A sequence of work offered by the Department of German and the Department of Education of the College leads to a certificate to teach in the secondary schools of Pennsylvania.

Greek

Professor: Mabel Louise Lang, PH.D., *Chairman*

Katharine E. McBride Visiting Professor: Lillian H. Jeffery, PH.D.

Assistant Professors: Gregory W. Dickerson, M.A.

Richard Hamilton, 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: 001, 101a, 201ab, 301ab, one other half-unit course and the Senior Conference. Prospective majors in Greek are advised to take Greek 001 in the freshman year.

Allied Subjects: Ancient History, Classical Archaeology, History of Art, History of Religion, any language, Philosophy.

001. *Elementary Greek:* Miss Lang, Mr. Hamilton.

Semester I: elements of grammar, prose composition, reading ancient authors and the *New Testament*. *Semester II:* Plato's *Apology* and *Crito*; sight reading in class from Euripides' *Alcestis*.

101a. *Herodotus:* Mr. Dickerson, Miss Lang.

After a review of Attic Greek with Plato's *Menexenus* the reading is Book VI of Herodotus; prose composition is required.

101b. *Tragedy:* Mr. Dickerson, Miss Lang.

Sophocles' *Antigone* and Euripides' *Medea*; a critical literary paper is required.

102a. *Homer:* Mr. Dickerson.

Several books of the *Odyssey* are read, and verse composition is attempted.

201a. *Plato and Thucydides:* Mr. Dickerson.

The *Symposium* and an abridged version of the Sicilian Expedition, with required prose composition.

201b. *Hesiod and Tragedy:* Mr. Hamilton.

The Works and Days, Euripides' *Bacchae* and Sophocles' *Oedipus Tyrannus*; a critical literary essay is required.

203a.* *Greek Literature in Translation:* Miss Lang, Mr. Dickerson, Mr. Hamilton.

The epics of Homer and Hesiod, early lyric poetry and the *History* of Herodotus are examined and interpreted as expressions of Greek culture.

203b.* *Greek Literature in Translation:* Mr. Dickerson, Miss Lang.

The tragedies of Aeschylus, Sophocles and Euripides are studied along with the comedies of Aristophanes and Thucydides' *History of the Peloponnesian War*.

301a. *Lyric Poets:* Mr. Hamilton.

Early elegiac, iambic and lyric poetry, including the odes of Pindar.

301b. *Aeschylus and Aristophanes*: Mr. Dickerson.

Aeschylus' *Agamemnon* and Aristophanes' *Frogs*.

For work in Greek History see History 205b.

Senior Conference: Weekly meetings with the members of the Department to explore in depth one or two areas (such as Homer and Oral Poetry, the Lyric Age of Greece, Attic Tragedy, the Golden Age of Athens, Biography and Rhetoric in Early Greek History, Folklore and Mythology in Greece). Oral reports will be scheduled throughout the year, and at the end there will be a written examination in sight translation from Greek to English and whatever other evaluation of the conferences each group deems appropriate.

Students doing their major work in Greek only will be expected to elect two conference areas; those doing a double major or a minor in another field will elect only one. A student majoring in another field may be admitted to one of the conferences without being liable for the translation examination.

Honors Work: Honors may be taken by qualified seniors either in conjunction with the advanced course or after its completion.

Interdepartmental Work: The Department of Greek participates in the Interdepartmental majors: *Classical Languages* and *Classical Studies*. See page 139.

History

Professors: Arthur P. Dudden, PH.D., *Chairman*

Elizabeth Read Foster, PH.D., *Dean of the Graduate School of Arts and Sciences.*

J. H. M. Salmon, M. LITT, LIT. D.

James Tanis, TH.D., *Director of Libraries*

Associate Professors: Charles M. Brand, PH.D.

Mary Maples Dunn, PH.D.

Barbara M. Lane, PH.D.

Alain Silvera, PH.D.

Assistant Professor of the History of Science: Charles A. Culotta, PH.D.

Lecturer: Phyllis S. Lachs, PH.D.

Visiting Lecturers: Herbert Aptheker, PH.D.

Kathryn L. Morgan, PH.D.

Professor of Greek: Mabel Lang, PH.D.

Professor of Social Work and Social Research:

Milton D. Speizman, PH.D.

Associate Professor of Classical and Near Eastern Archaeology:

Carl Nylander, PH.D.

Assistant Professor of Latin: Russell T. Scott, PH.D.

Lecturer in Latin: Jon-Henri Damski, M.A.

The History major is designed to enable the student to acquire historical perspective and historical method. Courses stress the development of ideas, cultures and institutions—political, social and economic—rather than the accumulation of data about particular events. Students study some topics and periods intensively in order to learn the use of documentary material and the evaluation of sources. Extensive reading is assigned in all courses to familiarize majors with varied kinds of historical writing and, in most courses, critical or narrative essays are required.

Requirements in the Major Subject: Students are expected to complete four units of History and two units of allied work meaningfully related to the discipline of History. The basic selection of courses is planned in the spring of the sophomore year and depends upon the special interests of each student together with the availability of courses. History 111-112 will ordinarily be required of all History majors, but it will not satisfy the departmental distribution requirements. A suitable distribution of work to be undertaken by History majors should include at least: 1) one European course, 2) one American or non-European course; 3) one ancient, medieval, or early modern course concentrated before 1789; 4) one modern course concentrated after 1789. A particular course may very well satisfy more than one of the above qualifications. History major will, in addition to the foregoing requirements, participate in the Senior Conference.

Allied Work: A wide choice is open to majors in History; in general those in modern fields will find courses in the Social Sciences most suitable, while those in earlier periods may select, with the permission of the departments concerned, courses in Classical Studies, in Philosophy and History of Art. Intermediate or advanced courses in Literature and in Language may also serve to enrich the major offering.

111. *Western Civilization:* Members of the two Departments.
112. A Bryn Mawr-Haverford combined course surveying Western European civilization from the fall of Rome to the present. The course deals with both institutional and intellectual currents in the western tradition. Conferences, discussions and lectures deal with both primary materials and secondary historical accounts.
190. *The Form of the City:* Mrs. Lane.
(INT.) The physical character of historic and contemporary cities. Approximately ten cities will be studied intensively. Given in alternate years.
- [201. *English History:* Mr. McKenna (Haverford).]
202. *The United States of America:* Mr. Dudden.
A study of American life in the eighteenth, nineteenth, and twentieth centuries with emphasis upon the formation of the Republic and its subsequent transformations.
203. *Medieval European Civilization:* Mr. McKenna (Haverford)
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.
204. *Europe, 1789-1848:* Mr. Silvera.
The French Revolution and the spread of revolutionary ideas and the idea of nationalism throughout the Napoleonic epoch comprise the first semester. Political and social history from the age of Metternich through the revolutions of 1848, including the effects of the industrial revolution, the growth of nationalism, and the varieties of socialism, will be covered in the second semester.
- 205a. *The Ancient Near East:* Mr. Nylander.
An introduction to the history of the ancient Near East from the beginning of the third millennium B.C. to the rise of the Persian

Empire. The sources and nature of the earliest history of Egypt and Mesopotamia; the international developments in Western Asia and Egypt during the second millennium B.C.; the Dark Ages and survival of traditions in the Near East at the beginning of Greek history.

205b. *Ancient Greece*: Miss Lang.

A study of Greece from the Trojan War to Alexander the Great, with particular attention to the constitutional changes from monarchy, through aristocracy and tyranny, to democracy in various parts of the Greek world. The stress will be on ancient sources, including historians, inscriptions and archaeological and numismatic materials.

206a. *Roman History*: Mr. Damski.

The rise of Rome in Italy, contacts with the Hellenistic world, and the growth of the Roman Empire. Reading from source material and an essay will be required.

206b. *Roman History*: Mr. Scott.

The Roman Empire and the Hellenistic world to the reign of Constantine I.

207. *Latin America: Colonies and Revolutions*: Mrs. Dunn.

The conquest of South America, the transplantation and modification of European institutions, the colonial society, economy, and culture will be studied, followed by the revolutionary movements, and the establishments of new nations.

208. *Byzantine History*: 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.

[209. *Early American History, 1607-1789*: Mrs. Dunn.]

210a. *Topics in the History of the Near East*: Mr. Silvera.

A survey of the Arab world and Turkey from the rise of Islam to the Arab-Israeli wars. Among the topics to be studied in the first semester are the legacy of Islam, the rise and decline of the Umayyad and Abbasid Caliphates, and the development of the Muslim society and

institutions under the Ottoman Empire. The second semester concentrates on the impact of the West and the growth of Arab nationalism.

[211b. *Medieval Mediterranean World*: Mr. Brand.]

212. *Renaissance and Reformation*: Mr. Salmon.

The course will consider the principal intellectual and religious movements in European History against their social background from the mid-fifteenth century to the mid-seventeenth century.

225. *Europe since 1848*: Mr. Spielman (Haverford).

The main political, social and cultural developments of the European states since the mid-nineteenth century. The first semester will extend to the first World War.

[227. *The Age of Absolutism*: Mr. Spielman (Haverford).]

230. *A History of the Afro-American People*: Mr. Aptheker.

A two-semester course concentrating upon the experiences, concepts, organizations and struggles of the Black People in the United States. The time range will be from the commencing of the modern slave trade in the fifteenth century to the present era; attention will be given to the intertwining of this history with United States and world history.

231a. *The Study of Black Folk History*: Mrs. Morgan.

This course will be an investigation of the sources, problems and methods involved in the study of black history with special emphasis on folk history. Examples will be drawn from the period of the slave trade to the present. Some work will be done off campus.

231b. *The Ex-Slave Narrative As a Source for Black Folk History*: Mrs. Morgan.

An exploration of folklife as reflected in ex-slave autobiographies collected in the 1920's and 1930's. Emphasis will be placed on the relationship of the narratives to the understanding of the black experience in the United States.

240b. *History and Principles of Quakerism*: Mr. Bronner (Haverford).

The Quaker Movement is studied in relation to other intellectual and religious movements of its time, and in relation to problems of social reform. The development of dominant Quaker concepts is traced to the present day and critically examined.

[244. *Russian History*: Mrs. Gerstein (Haverford).]

[260. *Germany since 1815*: Mrs. Lane.]

261a. *Traditional China*: Mrs. Borei (Haverford).

A general survey of Chinese civilization to the beginning of the nineteenth century. Lectures and discussions will deal topically with such themes as Confucianism and the growth of the Chinese bureaucracy.

262b. *History of Japan*: Mrs. Borei (Haverford).

A general survey of Japan's institutional and cultural development, concentrating on the pre-modern and Meiji periods.

270b. *Medieval Cities: Islamic, Byzantine and Western*: Mr. Brand.

A conference course to introduce the student to the comparative study of economy, society, politics and culture of towns in the Islamic, Byzantine, and Western European worlds from the seventh to thirteenth centuries. A reading knowledge of French or German or Italian is expected.

290. *The Civilization of France*: Mr. Silvera.

(INT.) Conducted in French, this course studies the development of modern French life and culture in its historical context and explores the values and attitudes of French society as manifested in literature and the arts, politics, education and religion. Prerequisite: a good command of French. Serves as the introductory course for French Studies majors but open to other qualified students.

300b. *The American City in the Twentieth Century*: Mr. Speizman.

(INT.) Social transformations under the impact of rapid urbanization. Includes some comparative study of urbanization in other societies.

301b. *Europe in the Twentieth Century*: Mrs. Lane.

Great Britain and continental Europe from 1914 to the present.

[302. *France, 1559-1661*: Mr. Salmon.]

[303. *Recent History of the People of the United States*: Mr. Dudden.]

305a. *The Italian City-State in the Renaissance*: Mrs. Lane.

Out of its medieval setting the evolution of the urban civilization of Northern Italy will be examined within its socio-economic as well as

its cultural context. Not only Florence, but the other major city-states as well will be investigated in detail.

[310b. *Mexico: A Study in Tradition and Revolution, Historical Continuity and Change*: Mrs. Dunn.]

312b. *History of Women in America*: Mrs. Dunn.

Study of the roles played by and assigned to American women from the colonial period through the nineteenth century. Prerequisite: some work in American history at college level.

313a. *History of Science: Antiquity to the Renaissance*: Mr. Culotta.

(INT.) The cultural and intellectual movements which fostered an idea of science and its value are examined through the science of the period. The alteration of this scientific outlook during the middle ages and renaissance are brought to bear upon the relevance of Greek scientific notions for the scientific revolution.

314a. *The Rise of Modern Science*: Mr. Culotta.

& b. Changes in the concept "science" and its rapport with intellectual (INT.) traditions are examined through the major scientific developments from the seventeenth through the twentieth century. Interpretations of the scientific revolution, national differences in the scientific enterprise, government involvement in science, and the rise of empirical and applied science are emphasized. The first semester closes with the French Revolution. Students may select one semester only.

315a. *Topics in Modern British History*: Mrs. Lachs.

Topics will be chosen from 1688 through the Edwardian Age, including the evolution of political and social institutions, intellectual history, and Ireland.

[320a. *Holland's Golden Age*: Mr. Tanis.]

[321b. *Revolution within the Church*: Mr. Tanis.]

325b. *Life and Works of W.E.B. DuBois*: Mr. Aptheker.

An analytical survey of the main themes in the life and writings of DuBois, chief founder of the modern Black liberation movement, and of the Pan-African movement. His work as novelist, editor, journalist, historian, sociologist, anthropologist, agitator-organizer will be examined in terms of the times in which he lived and the impact he had. Papers and reports by students will be emphasized.

[330. *France since 1870*: Mr. Silvera.]

340. *Topics in American History*: Mr. Lane (Haverford).

345b. *Topics in Far Eastern History*: Mrs. Borei (Haverford).

Seminar meetings and reports based on primary sources in translation and on interpretive essays. Topic for spring 1972: Intellectual response to modernization in China (1840-1950). Prerequisite: History 261a or consent of the instructor.

351a. *Regional History: Westward Expansion*: Mr. Bronner (Haverford).

355a. *Topics in European History: The Rise of the Habsburg Empires, 1500-1715*: Mr. Spielman (Haverford).

[370a. *The Great Powers and the Near East*: Mr. Silvera.]

399. *Senior Conference: The Historical Discipline*: Mr. Salmon and the members of the Department.

This program will center on the philosophy of History encompassing History's underlying concepts as well as historiography and methodology.

Honors Work: Honors work in any of the advanced fields is offered for the senior year to any History major who completes her third year with a record of distinction. An essay based on source material must be presented before May 1.

Interdepartmental Work: The Department of History participates in the Interdepartmental Majors: *French Studies* and *Growth and Structure of Cities*. See pages 140 and 141.

Teaching Certification: A sequence of work offered by the Department of History and the Department of Education of the College leads to a certificate to teach in the secondary schools of Pennsylvania.

History of Art

Professors: Charles Mitchell, M.A., B.LITT., LITT.D., *Chairman*

James E. Snyder, M.F.A., PH.D.

Associate Professor: Charles G. Dempsey, M.F.A., PH.D.

Assistant Professor: Arthur S. Marks, PH.D.¹

Lecturer: Robert W. Gaston, D.PHIL.

Associate Professor of Fine Art: Fritz Janschka, *Akad. Maler*

The Department regularly offers an introductory course (involving some studio work), a series of general intermediate courses and more concentrated advanced half-courses, and instruction on special topics to majors in their senior year. The program is open also to undergraduates of Haverford College.

Requirements in the Major Subject: At least four units of course-work in art history, normally including Art 101 and always one unit of advanced course work, together with the Senior Conference and two units of allied work. Intermediate courses with supplementary work may sometimes be counted as advanced at the discretion of the Department.

Students contemplating a major in History of Art are strongly advised to consult the Department as early as possible in their College careers.

Allied Subjects: History, Latin, Greek, Modern Languages, Archaeology; others in consultation with the Department.

101. *Introduction to Art History:* The Department.

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.

Intermediate courses:

210. *Early Medieval and Byzantine Art:* Mr. Gaston.

211. *Romanesque and Gothic Art:* Mr. Snyder.

212. *Renaissance Art:* Mr. Mitchell.

213. *Baroque Art:* Mr. Dempsey.

1. On leave for the year, 1971-1972.

Advanced courses:

- 320a. *Classical Survival in Medieval Art*: Mr. Gaston.
321b. *Late Gothic Painting in Northern Europe*: Mr. Snyder.
322b. *Picasso*: Mr. Mitchell.
323a. *Baroque Allegory*: Mr. Dempsey.
[324a. *Problems in Modern Architecture*: Mr. Marks.]

Senior Conferences: Members of the Department hold regular conferences with senior majors on their special subjects. The evaluation is in three parts, each of three hours:

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 topic.

Honors Work: Offered to students on invitation of the Department.

Interdepartmental Work: The Department of History of Art participates in the Interdepartmental major: *Growth and Structure of Cities*. See page 141.

History of Religion

Professor: Howard C. Kee, PH.D., *Chairman*

Associate Professor: Samuel T. Lachs, PH.D.

Visiting Lecturers: Patrick Henry, PH.D.

David Rabi, M.A.

Donald Swearer, PH.D.

Resident in Religion: Daniel Jenkins, PH.D.

Professor of Philosophy: Jean A. Potter, PH.D.

Director of Libraries and Professor of History: James Tanis, TH.D.

At Haverford:

Associate Professor of Religion: Richard Luman, PH.D.

Assistant Professor of Religion: J. Bruce Long, PH.D.

The History of Religion major concentrates on the historical study of the religious traditions which have contributed most to shaping the culture of the West: The Religion of Israel, Judaism and Christianity. The student is expected to achieve facility in critical analysis of the primary sources of these traditions and in tracing their development against the background of the cultural situations in which they arose and matured.

Requirements in the Major Subject: At least four courses in History of Religion, of which three must be in the history of Judaism or Christianity and one in another religious tradition (e.g. Hinduism or Buddhism). The Senior Conference is also required.

The normal pattern for the major consists of one introductory course (100 level), two intermediate courses (200 level) and two advanced half-courses or a full-year course (300 level). Students in advanced courses who are majoring in History of Religion are required to demonstrate a working knowledge of the language appropriate to their field of concentration: Hebrew for the Religion of Israel or Judaism, Greek for New Testament or Early Christianity, Latin for Medieval Christianity, German for the Reformation Period.

Allied Subjects: Philosophy, History, History of Art, Archaeology, Anthropology.

001. *Elementary Hebrew:* Mr. Rabi.

Grammar, composition and conversation with primary emphasis on fluency in reading. Course designed for preparation in reading classical religious texts.

101. *Intermediate Hebrew:* Mr. Lachs.

Readings in prose passages of the Hebrew Bible. Course will include Hebrew composition, grammar, and conversation based on the Hebrew text.

103a. *History and Literature of the Bible:* Mr. Kee.

- & b. a. A study of the history of Israel and its sacred literature against the background of the ancient Near East, the development of the legal, prophetic and wisdom traditions. b. The beginnings of Christianity, tracing the influences of Judaism and of Hellenistic culture and religion on the life and thought of the New Testament community.

- 104a. *History and Literature of Judaism*: Mr. Lachs.
Historical study of Judaism from the Exile through the Geonic period, with major focus on the literature.
- [201b. *Topics in Old Testament Literature*.]
- 205b. *The Ethics of Early Christianity*: Mr. Kee.
The relation of the ethics of Jesus to contemporary Jewish law; the ethics of Paul in comparison with Jewish and Hellenistic ethical systems; the regularization of ethics in the post-apostolic period, as seen in the Gospel of Matthew, the Epistle of James, I Peter, and the Apostolic Fathers.
- 207a. *Jesus and the Gospel Tradition*: Mr. Kee.
Historical sources for the life of Jesus; the varying interpretations of Jesus in the gospel tradition; the rise of critical method for evaluating the sources.
- [208b. *Paul and the Rise of Gentile Christianity*: Mr. Kee.]
- [209a. *Pharisaic Judaism*.]
- 210b. *Medieval Philosophy*: Miss Potter. (See Philosophy 210b.)
- 300a. *Medieval Jewish Thought*: Mr. Lachs.
Thought patterns in Traditionalism, Rationalism and Mysticism among the Jews in Spain, France and Germany during the Middle Ages
- [301a. *Gnosticism*: Mr. Kee.]
- [302a. *Readings in the Greek New Testament*: Mr. Kee.]
- 302b. *Jewish Antecedents of Christianity*: Mr. Kee.
The post biblical wisdom and apocalyptic writings; the Dead Sea Scrolls; conceptions of redeemer figures and the consummation of history in Judaism of the Second Temple and its bearing on nascent Christianity.
- 303a. *Religions in the Hellenistic World*: Mr. Henry.
The emergence of Christianity among the religious of the Roman Empire, with special attention to religion and religious philosophy, social and political questions in the writing of Justin Martyr, Tertullian, Origen and Augustine.
- [303b. *Myth and History*: Mr. Kee.]

[304. *Studies in the Hebrew Bible.*]

[306b. *Rabbinic Literature.*]

307b. *Rabbinic Ethics and Theology*: Mr. Lachs.

Readings in Rabbinic Literature centering on the concepts of God, Man and Society.

308b. *Buddhist Texts in Translation*: Mr. Swearer.

321b. *Revolution within the Church*: Mr. Tanis. (See History 321b.)

Courses at Haverford

Religion 201. *History of Western Religious Thought and Institutions*: Mr. Luman.

Religion 225. *Religious Traditions of India*: Mr. Long.

Courses at Swarthmore

Religion 24. *Mysticism East and West*: Mr. Swearer.

Senior Conference: In the first semester students meet for weekly conferences to explore and discuss historical and literary aspects of early Judaism and Christian beginnings; during the second semester each student will carry on research in relation to her special interests, reporting periodically to the other members of the Senior Conference, and will present the results of her research in written form before the end of the term. The student's work will be evaluated on the basis of her oral contribution in the first semester and her written report in the second.

Honors Work: Qualified students are admitted to Honors work on the recommendation of the Department.

Italian

Lecturers: Nicholas Patruno, M.A.

Elizabeth Welles, 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 102a, 201b, 301, 303a,b and at least one other advanced course. For students who enter the College with Italian, proper substitutions will be made. In all courses students are urged to use tapes available in the Language Laboratory.

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.

001. *Italian Language:* Mr. Patruno, Mrs. Welles.

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.

101. *Intermediate Course in the Italian Language:* Mrs. Welles, Mr. Patruno.

Readings from selected Italian authors and topics assigned for composition and discussion, conducted entirely in Italian.

102a. *Advanced Course in the Italian Language:* Mr. Patruno.

Advanced work in composition and critical examination of literary texts.

[102c. *Dante in English Translation.*]

201b. *Novel and Poetry of Modern Italy:* Mr. Patruno.

203b. *Twentieth-Century Italian Civilization (in Translation):* Mrs. Welles.

A study of the artistic and political developments of Fascist and post-Fascist Italy seen through the Italian novel and cinema.

[301. *Dante.*]

303a. *Petrarch, Boccaccio and the Early Humanists:* Mr. Patruno.

- 303b. *Literature of the Italian Renaissance*: Mrs. Welles.

From Poliziano to Tasso, Special attention will be given to the aesthetic theories of the Renaissance.

- [304a. *Foscolo, Leopardi and Manzoni*: Mr. Patruno.]

- [304b. *Literature of the Nineteenth Century*: Mr. Patruno.]

- 305a. *History of the Italian Theatre*: Mrs. Welles.

A study of the Italian theatre from the Renaissance to modern times.

Senior Conference: In the first semester weekly meetings devoted to the study of special topics in Italian literature chosen by the students, to be evaluated by a written examination in January. In the second semester each senior will prepare under the direction of her instructor a paper on an author or a theme which she has chosen. There will be a brief oral examination in Italian.

Honors Work: On the recommendation of the Department a student may undertake Honors work in Italian. The student works in a special field adapted to her own interest under the direction of the Department.

Latin

Professors: Agnes Kirsopp Michels, PH.D., Chairman

Myra L. Uhlfelder, PH.D.¹

Assistant Professors: Richard Hamilton, PH.D.

Russell T. Scott, PH.D.

Lecturer: Jon-Henri Damski, M.A.

The major in Latin is planned to acquaint the students with the world of the Romans, and their contribution to the modern world.

Requirements in the Major Subject: Latin 101, 201, 301 or 302 and the Senior Conference. 203b is a prerequisite for Honors work, and required for those who plan to teach.

Courses taken at the Intercollegiate Center for Classical Studies in Rome (see page 53) are accepted as part of the major. For non-majors, Latin 201a and b are prerequisites for 300 level courses.

1. On leave, semester II, 1971-72.

Allied Subjects: Greek, History, Classical and Near Eastern Archaeology, History of Art, History of Religion, Linguistics, Philosophy, Anthropology, any modern literature.

001. *Elementary Latin:* Miss Uhlfelder, Mr. Hamilton.

Basic grammar and composition, reading from prose authors and Vergil's *Aeneid*.

002. *Intermediate Latin:* Mrs. Michels, Mr. Damski.

Review of grammar with reading in prose and poetry for students who have had two years of Latin in school, or do not feel adequately prepared to take Latin 101.

101a. *Latin Literature:* Mr. Damski.

Prerequisites: More than two years of Latin in school, Latin 001 or Latin 002. Selections from Catullus' poems, Cicero's *Pro Caelio*, and Vergil's *Eclogues*.

101b. *Latin Literature:* Mrs. Michels.

Selections from Livy, Book I, and from Horace's *Odes*.

201a. *Horace and Ovid:* Mr. Scott.

Selections from Horace's *Satires* and *Epistles*, and from the works of Ovid.

201b. *Latin Literature of the Silver Age:* Mr. Damski.

Readings from the major authors of the 1st and 2nd centuries A.D.

202a. *Medieval Latin Literature:* Miss Uhlfelder.

Reading in writers from the late Roman Empire to the Carolingian period.

203b. *Latin Style:* Mrs. Michels.

A study of Latin prose style, based on reading of prose authors and exercises in composition, and of Latin metrics with practice in reading aloud.

204b. *Words:* Mr. Damski. See Interdepartmental Course 204b, page 144.

[301a. *Vergil's Aeneid:* Mrs. Michels.]

[301b. *Livy and Tacitus:* Mr. Scott.]

302a. *Lucretius:* Mr. Damski.

302b. *Cicero and Caesar:* Mr. Scott.

For Roman history see History 206 a & b.

Senior Conferences: Regular meetings with members of the Department to discuss reading in Latin literature intended to supplement and synthesize work done in courses. The work of the conference will be evaluated in 1971-72 on the basis of oral and written reports. Majors must pass an examination in Latin sight translation which will be offered in September, February and May.

Honors Work: Honors work is offered to qualified students in classical or medieval Latin literature, or in Roman History. The results will be presented in a paper directed by a member of the Department.

Interdepartmental Work: The Department of Latin participates in the Interdepartmental majors: *Classical Languages* and *Classical Studies* and *Growth and Structure of Cities*. See pages 139 and 141.

Teaching Certification: A sequence of work offered by the Department of Latin and the Department of Education of the College leads to a certificate to teach in the secondary schools of Pennsylvania.

Mathematics

Professors: John C. Oxtoby, M.A., *Chairman*
Frederic Cunningham, Jr., PH.D.

Associate Professor: Ethan D. Bolker, PH.D.¹

Assistant Professor: Martin Avery Snyder, PH.D.

Instructor: Miriam P. Hellman, M.A.

Assistant: Elaine Kyriacou, B.A.

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.

Requirements in the Major Subject: At least 4½ courses including Mathematics 101, 201, 301, 303a, or equivalent. The Senior Conference is also required.

1. On leave for the year, 1971-72.

Allied Subjects: Chemistry, Economics, Philosophy, Physics, Psychology.

101. *Calculus, with Analytic Geometry:* Mrs. Hellman, Mr. Oxtoby.

Differentiation and integration of algebraic and elementary transcendental functions, with the necessary elements of analytic geometry and trigonometry; the fundamental theorem, its role in theory and applications.

103b. *Methods and Models:* Mr. Cunningham.

Mathematical concepts, notations, and methods commonly used in the social, behavioral, and biological sciences, with emphasis on manipulative skill and real problem solving. Prerequisite: Interdepartmental 100a. See Interdepartmental Course 100a, page 144.

201. *Intermediate Calculus and Linear Algebra:* Mr. Snyder.

Vectors, linear transformations, functions of several variables, partial derivatives, multiple integrals, line integrals, infinite series, Taylor's formula, differential equations.

210b. *Introduction to Numerical Analysis:* Mr. Snyder and Mr. Zimmerman.

Lectures will present basic mathematical material and the fundamentals of numerical analysis. Emphasis will be more on over-all viewpoints than on particular techniques. The laboratory will consist of computer programming with problems drawn as far as possible from the student's major field. Two lectures, two hours laboratory a week. Prerequisite: Mathematics 101 or equivalent.

301. *Advanced Calculus:* Mr. Oxtoby.

The classical theory of real functions, based on a construction of the real number system; elements of set theory and topology; analysis of Riemann integral, power series, Fourier series and other limit processes. Prerequisite: Mathematics 201.

303a. *Introduction to Abstract Algebra:* Mr. Cunningham.

Groups, rings and fields and their morphisms. Prerequisite: Mathematics 201.

303b. *Topics in Algebra:* Mr. Cunningham.

[304b. *Theory of Probability with Applications.*]

- [306b. *Number Theory*: Mr. Bolker.]
Prerequisite: Mathematics 303a.
- [308. *Introduction to Applied Mathematics*: Mr. Snyder.]
310. *Theory of Functions of a Complex Variable*: Mr. Snyder.
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.]
Prerequisite: Mathematics 201.
- [312b. *Topology*: Mr. Cunningham.]
Prerequisite: Mathematics 301 or 303a.
- [320. *Real Analysis*: Mr. Oxtoby.]

Senior Conference: Selected topics from various branches of Mathematics are studied by means of oral presentations and the solution and discussion of problems.

Honors Work: Qualified students are admitted to Honors work on recommendation of the Department.

Teaching Certification: A sequence of work offered by the Department of Mathematics and the Department of Education of the College leads to a certificate to teach in the secondary schools of Pennsylvania.

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.

Associate Professor: Isabelle Cazeaux, PH.D.¹

Lecturer: Charlotte Roederer, M.PHIL.

Instructor: Wilbert D. Jerome, M.MUS.

Assistant: Myrl Hermann, M.A.

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

1. On leave for the year, 1971-72.

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.

Students who are sufficiently advanced and who have completed at least one year of voice or music lessons while at the College may with the approval of the Department offer for one unit of academic credit a year of voice or instrument lessons. The unit of credit will include the lessons and also a recital or proficiency test arranged by the department. The unit of credit will count as elective work and will not be counted toward the major.

A sequence of lessons (voice or instrument) approved by the department, of a year or more, at the request of the student, will appear on her transcript.

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. The Senior Conference is also required. 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. Equivalent courses at Haverford will not be accepted for the major.

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 Roederer, Mme. Jambor, Mr. Goodale, Mr. Jerome.

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.

- 201a. *Romantic Music*: Mr. Jerome.
A historical treatment of the music of the age with particular attention to certain representative composers.
202. *Advanced Theory and Analysis*: Mr. Goodale.
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.
- [205a. *Musical Criticism*: Miss Cazeaux.]
Prerequisite: Music 101.
301. *Music of the Twentieth Century*: Mr. Goodale.
A survey of the music of the period and concentrated analysis of key works. Prerequisites: Music 101, 102, and 202 or their equivalents. Music 202 may be taken concurrently.
- 302a. *Medieval and Early Renaissance Music*: Miss Roederer.
The rise of liturgical music in the early Christian Church. The evolution of sacred and secular music up to 1450. Prerequisites: Music 101, 102 or their equivalents.
- 302b. *Late Renaissance and Baroque Music*: Miss Roederer.
Vocal counterpoint during the fifteenth and sixteenth centuries. Development of dramatic and instrumental music up to the time of Bach. Prerequisites: Music 101, 102 or their equivalents.
- 303b. *Orchestration*: Mr. Goodale.
Prerequisites: Music 101, 102 and 202 or their equivalents. Music 202 may be taken concurrently with this course.
- 304b. *Interpretation of Music*: Mme. Jambor.
Interpretation of instrumental music of various ages. Members of the class will be invited to participate by performing. 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.

[306b. *Opera and Music Drama*: Miss Cazeaux.]

Sight-singing and Dictation: Mr. Jerome.

This course receives no academic credit. It meets twice a week and is required of music majors. It is open to other interested students.

Senior Conferences: Three conferences dealing with some aspects of the theory and history of music. Students may substitute for one of these a conference in an allied subject. Candidates' understanding of the material may be tested by written assignments, oral reports or other appropriate means.

Honors Work: Honors work is offered for students recommended by the Department.

The following organizations, carrying no academic credit, are sponsored by the Department:

The College Chorus, a group of about 90 members. The Bryn Mawr College Chorus combines with the Haverford College Glee Club both in rehearsals and in the presentation of programs. Several major choral works from different musical periods are offered in concerts during the course of the year.

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. Lessons in other instruments may be arranged. The Department will be glad to assist in these arrangements.

Interdepartmental Work: The Department of Music participates in the Interdepartmental concentration in *Hispanic and Hispanic-American studies*. See page 143.

Philosophy

Professors: Milton Charles Nahm, B. LITT., PH.D., *Chairman*

José María Ferrater Mora, *Lic. F.L.*¹

George L. Kline, PH.D.

Jean A. Potter, PH.D.

Isabel Scribner Stearns, PH.D.

Associate Professor: Mary Patterson McPherson, PH.D., *Dean of the Undergraduate College*

Assistant Professors: Michael Krausz, PH.D.

George E. Weaver, Jr., PH.D.

Lecturer: Elizabeth G. Vermeij, M.A., *Director of Admissions*

Assistants: Caroline Dudeck, A.B.

Richard Hunter, 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 additional historical perspective, as well as insight into methodology and systematization. Training in the techniques of Logic is afforded, and such studies as Ethics, Aesthetics and Philosophy of Science show the relations of Philosophy to art, religion, science and mathematics. The advanced student brings the information and techniques that she has acquired to bear on new areas of Philosophy and on philosophical problems of current interest. Opportunity for independent work is provided within or in conjunction with several such advanced courses.

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 acquire the necessary historical background by taking the semester courses in Greek and Modern Philosophy and by electing one of the

1. On leave, semester II, 1971-72.

following: either study of two major thinkers in different historical periods (Plato or Aristotle and Kant or Hegel) or study of one major figure and either Medieval Philosophy or Nineteenth-Century German Philosophy. The systematic requirement is met by the semester course in Logic and by any two of the following semester courses: Ethics, Aesthetics, Philosophy of Religion, Philosophy of Science. One semester of advanced work is to be chosen from the 300 level courses. In addition to these eight semester courses the Senior Conference is required. (Note that 300 courses followed by the letter "d" are given for six weeks only. To receive credit for a semester's work, either two such courses must be taken or one such course followed by six weeks of independent work approved by the Department.)

Allied Subjects: Biology, Chemistry, Economics, English, History, History of Art, Mathematics, Music, Physics, Political Science, Psychology, classical and modern literatures, and certain courses in Anthropology, History of Religion and Sociology.

Courses in Philosophy at Haverford College: (1) Majors in philosophy are required to take eight semester courses in philosophy in addition to the senior conference. (2) Of these eight semester courses, seven must be taken at Bryn Mawr. (3) Each year the Philosophy Department lists in the Bryn Mawr catalogue all Haverford courses which (a) are not taught at Bryn Mawr in that year; (b) satisfy the major requirement, when taught at Bryn Mawr. A student electing to complete this semester course at Haverford may choose from among those Haverford courses listed in the Bryn Mawr catalogue for that year.

Courses offered at Haverford College in 1971-72 which come under (3) above:

350a. *Analytic Philosophy:* Mr. Bernstein.

353a. *Social Philosophy:* Mr. Bernstein.

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. The course will be repeated in the second semester as 101b.

- 201a. *Modern Philosophy*: Members of the Department.
A study of the development of modern philosophic thought from Descartes to Kant. Prerequisite: Philosophy 101a or b. The course will be repeated in the second semester as 201b.
- 202a. *Plato*: Miss Stearns.
A detailed study of some of Plato's later dialogues.
- 203b. *Aristotle*: Mr. Kline.
A study of Aristotle's system, with emphasis on such fundamental problems as language, substance, change, being, and the Unmoved Mover.
- 210b. *Medieval Philosophy*: Miss Potter.
The history and development of Medieval Philosophy from its origins in classical and Patristic thought through the fourteenth century.
- 212a. *Philosophy of Science*: Mr. Krausz.
A survey of some issues in the conceptual foundations of modern science and mathematics, with particular emphasis on the applications of mathematics to empirical sciences. Prerequisite: Philosophy 250a.
- 215a. *Kant*: Mr. Ferrater Mora.
A close examination of some central themes in the *Critique of Pure Reason*.
- [216a. *Hegel*.]
- [217b. *Nineteenth Century German Philosophy*.]
- 250a. *Logic*: Mr. Weaver.
An introduction to modern mathematical logic, with emphasis on both the semantic and the combinatorial aspects of reasoning.
- 260b. *Ethics*: Miss Potter.
A close study of classical texts, with attention to such problems as responsibility, moral values, principles of moral decision.
- 262a. *Philosophy of Religion*: Miss Potter.
The existence and nature of God and the character of religious language. Prerequisite: Philosophy 201 or permission of the instructor.

- 301b. *Recent Metaphysics*: Miss Stearns.

The metaphysics of Mead, Bergson, Whitehead and related thinkers. This course may be taken to meet the major requirement in systematic Philosophy.

- 302b. *Philosophy of Criticism*: Mr. Nahm.

A study of some of the basic philosophical problems in the criticism of art and fine art as they are exhibited in the writings of Plato, Aristotle, Longinus, Leonardo da Vinci, Hume, Kant and Croce.

- 303b. *Philosophy of History*: Miss Vermey.

The philosophical interpretation of history, its meanings and laws.

- 304a. *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, social philosophy, and the philosophy of history.

- [305b. *Contemporary Philosophy: Analytic*: Mr. Ferrater Mora.]

- 306a. *Contemporary Philosophy: Existential*: Mr. Ferrater Mora.

A study of French and German existentialist philosophies, including those of Sartre and Heidegger.

- 307a. *Aesthetics*: Mr. Nahm.

Types of aesthetic theory and problems concerning art, fine art, productivity, aesthetic judgment and aesthetic criticism. Permission of the instructor required.

- [307a. *Texts in Medieval Philosophy*: Miss Potter.]

- [309a. *The Concept of Time*: Mr. Kline.]

- 310b. *Philosophy of Language*: Mr. Weaver.

Selected topics in the philosophy of language with special emphasis on phrase structure, transformational grammars and the relevance of contemporary linguistic theory to philosophy.

- 311b. *The Mind-Body Problem*: Mr. Krausz.

A systematic study of the problems of the mind-body relation, persons, consciousness, intentionality, and action.

- 312b *Selected Problems in British Idealist Thought*: Miss McPherson.
Emphasis will be placed on the writings of F. H. Bradley.

Note: The following courses are of six weeks' duration and carry one-fourth unit of credit. To receive credit toward the degree or to meet the requirement for the major in Philosophy, the student must either pursue independent work for the second half of the semester under the direction of the instructor or elect a second such course.

- 350d. *Plato's Republic*: Mr. Nahm (September-October).

An intensive study of Plato's *Republic*, with particular emphasis on dialectic as illustrated in the structure of the dialogue.

- 352d. *Problems in the Philosophy of Time*: Mr. Kline (February-March).

An examination of the status and interrelations of past, present, and future: the irreversibility of the temporal order; "time's arrow" and the possibility of "time travel".

See also Political Science 209b, 231a, and 311b.

Senior Conference: The Senior Conference is in two parts. Part I is a seminar combined with tutorial sessions which runs throughout the year. The seminar emphasizes critical thinking on a central philosophic issue. For Part II each senior selects from an approved list one major philosophic work on which she wishes to be examined at the end of the first semester. The examination may be either written or oral at her option.

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: Rosalie C. Hoyt, PH.D.¹

Walter C. Michels, PH.D.

John R. Pruett, PH.D., *Acting Chairman*

Assistant Professors: John R. Olson, PH.D.

Alfonso M. Albano, PH.D.

Assistants: Ronald Jones, B.S.

Shubha P. Damle, M.SC.

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, and at least 2½ units to be chosen from Physics 201a, 202b, 207 or 305c, 301a, 303b, 304. At least 1 unit must consist of 300 level courses. Senior Conferences in Unified Classical Physics and in Atomic and Nuclear Physics; 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. Michels, Mr. Albano.

A study of the principal phenomena of classical and modern physics in the light of the developments of the past seventy years. Three lectures and three hours laboratory a week.

201a. *Electricity and Magnetism:* Mr. Pruett.

Elementary direct and alternating current circuit theory, magnetic

1. On leave for the year, 1971-72.

effects of currents, electrostatics, Maxwell's equations, applications to atomic phenomena. Three lectures and four hours laboratory a week. Prerequisites: Physics 101, Mathematics 201 (may be taken concurrently).

202b. *Optics*: Mr. Michels.

Geometrical optics, interference and diffraction, polarization, dispersion, and scattering of electromagnetic radiation; spectra and the Bohr atom. Three lectures and four hours laboratory a week. Prerequisites: Physics 201a, Mathematics 201 (may be taken concurrently).

207. *Physical Basis of Computer Science*: Mr. Pruett.

Linear circuit theory, digital electronics, and systems design. Introduction to algorithms, programming methods with applications to physical problems. Three lectures and four hours laboratory a week. Prerequisites: Physics 101 and Mathematics 101.

301a. *Classical Mechanics*: Mr. Olson.

Newtonian mechanics of particles and of rigid bodies, special relativity theory, generalized mechanics, applications to atomic and nuclear phenomena. Three lectures and four hours laboratory a week. Prerequisites: Physics 201a or 207, Mathematics 201.

303b. *Thermal Properties of Matter*: Mr. Olson.

The application of mechanics and probability concepts to systems of particles; classical thermodynamics and its connection with statistical models; equilibrium and transport problems; classical and quantum statistics. Three lectures and four hours laboratory a week. Prerequisites: Physics 301a, Mathematics 201.

304. *Introduction to Theoretical Physics*: Mr. Olson, Mr. Michels.

Coupled systems and continuous media; electromagnetic fields; radiation. Boundary value problems. Mathematical methods are developed as needed. Four hours a week. Prerequisites: Physics 201a, 202b and 301a (may be taken concurrently), Mathematics 201. Mathematics 301 or Chemistry 203 may be substituted for Physics 301a.

305c. *Electronics*: Mr. Pruett.

Principles of solid state electronic devices and their applications to digital and analog computers and to other instruments. Four hours laboratory a week. Prerequisite: Physics 201a (may be taken concurrently).

Senior Conferences

Semester I: Unified Classical Physics: Mr. Michels.

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. Two hours of discussion a week.

Semester II: Atomic and Nuclear Structure: Mr. Olson.

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.

Work in these conferences will be tested in part by examinations to be given during the academic year.

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.

Teaching Certification: A sequence of work offered by the Department of Physics and the Department of Education of the College leads to a certificate to teach in the secondary schools of Pennsylvania.

Political Science

The Caroline McCormick Slade Department of Political Science

President of the College: Harris L. Wofford, Jr., A.B., LL.B.

Professors: Melville T. Kennedy, Jr., PH.D., *Chairman*

Gertrude C.K. Leighton, A.B., J.D.¹

Associate Professor: Charles E. Frye, PH.D.²

Assistant Professors: Marc H. Ross, PH.D.

Stephen Salkever, PH.D.

Lecturers: Christine Philpot Clark, A.B., J.D.

Visiting Lecturer: Paul Sigmund, PH.D.

1. On partial leave, semester I, 1971-72.

2. On leave, semester II, 1971-72.

The major in Political Science is concerned with study of normative and empirical 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 of course work and the Senior Conference in the major and two units 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, 203a, 204b, 205a, 206b, 207b, 208b, 209b. 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.

The fields of the major, from which two must be selected for special concentration, are: Political Philosophy and Theory; Politics and Law in American Society; Comparative Politics; International Politics and Law. At least three courses (one and one-half units of work), including a minimum of one advanced course, must be taken in each of the fields selected. For courses arranged according to fields, see page 125. With the permission of the Department one of the fields may be taken in an allied subject.

Non-majors wishing to take a special field in Political Science must consult the chairman for approval of course plans in order to qualify for the required senior conference program. See page 124.

With the permission of the Department, courses at Haverford, 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. Ross.

An examination of the forces shaping political behavior and values in the United States, paying particular attention to the processes of political socialization, public opinion formation, agenda building, decision making, and policy implementation.

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. *Twentieth Century China and India*: Mr. Kennedy.

A comparative examination of the political systems of China and India in the twentieth century.

205a. *Government and Politics in Western Europe*: 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*.]

207b. *Government and Politics in Western Europe*: Instructor to be announced.

A comparative analysis of the contemporary political systems of Germany, Italy, and the Soviet Union.

208b. *Introduction to Latin America*: Mr. Sigmund.

A comparative analysis of the political systems of Latin America.

209b. *Western Political Philosophy*: Mr. Salkever.

A study of the fundamental problems of Western political thought. The writings of selected ancient and modern philosophers will be examined.

210a. *The Soviet System*: Mr. Hunter (Haverford).

(INT.) See Interdepartmental Course 210a, page 139.

[212a. *Western Political Thought: Ancient and Medieval*.]

218a. *Community Politics*: Mr. Ross.

The politics of local communities in both western and non-western settings focusing on political processes such as the control and exercise of power, community conflict, forms of political organization, and community formation.

219a. *American Constitutional Law*: Mr. Salkever.

An analysis of some of the basic principles and processes of American public law. Attention will be centered on decisions and opinions of the Supreme Court as they relate to the formation of public policy and to the value patterns of American liberal democracy.

- 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.

- 230b. *Political Behavior*: Mr. Ross.

This course considers various social-psychological approaches to the study of political behavior considering such concepts as political socialization, role theory, perception, belief dynamics, personality, and non-conformity and change.

- 231a. *Recent Political Philosophy: Sources and Varieties*: Mr. Salkever.

An examination of the similarities and differences found in the political writings of Locke, Mill, Marx and Nietzsche with respect to the question, what is the best life for man. Selected contemporary authors will also be considered.

- 232b.* *Law and Education*: Mr. Wofford.

An exploration of the principle of persuasion in the United States Constitution and common law, with special attention to the educational implications of the First Amendment and to the theory and practice—uses and abuses—of civil disobedience. Readings will include legal cases and commentaries, as well as some basic literature of political theory.

- 233a. *Law and Poverty*: Mrs. Clark.

An analysis of legal approaches to solutions for the problems of poverty. Open to students who have taken: Political Science 218a, 219a or 301a.

- [301a. *Law and Society*: Miss Leighton.]

- 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: Political Science 219b, 301a, or 313b, or with the 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*: Instructor to be announced.

[307b. *Modern Germany*: Mr. Frye.]

[308a. *American Political Theory*.]

[309b. *Selected Topics in Modern Political Thought*: Mr. Frye.]

310a. *Problems in Comparative Politics*: Mr. Frye.

Analysis of different approaches to the systematic study of politics and their application to selected problems in comparative politics including revolution, student unrest, and elitism.

311b. *Theory and Practice in Political Philosophy*: Mr. Salkever.

A consideration of one of the central processes of political philosophy—the transition from Fact to Value. Typical alternative modes of linking theoretical and practical assertions will be studied through the works of ancient and modern philosophers. Open to students who have taken: Political Science 209b, or either Philosophy 101 or 201.

312b. *China, Japan, India: Problems in Modernization*: 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 three countries.

[313b. *Problems in Constitutional Law*.]

[315b. *American Bureaucracy*.]

316b. *Ethnic Group Politics*: Mr. Ross.

An analysis of the factors influencing ethnic group conflict and cooperation in a variety of cultural contexts, with particular emphasis on urban settings. Each student will engage in a field project in the Philadelphia area.

[321a. *Latin American Affairs*.]

Courses at Haverford

- 216a. *African Civilization: Traditions and Transformations*: Mr. MacCaffey.
- 220b. *International Relations*: Mr. Hansen.
- 225b. *Comparative Politics: Political Development*: Mr. Glickman.
- [226b. *International Organization*: Mr. Hansen.]
- 227a. *American Political Theory*: Miss Shumer.
- [228b. *Public Opinion, Private Interests and the Political System*: Mr. Waldman.]
- 229b. *Problems in Contemporary American Political Theory*: Miss Shumer.
- 230a. *Racial, Ethnic and Class Politics*: Mr. Glickman.
- 252b. *Political Rationality, Political Purpose and Collective Welfare*: Mr. Waldman.
- 258b. *Public Policy: Civil Rights and Poverty*: Miss Shumer.
- 263a. *Imperialism, Nationalism and Decolonization*: Mr. Mortimer.
- 266b. *Politics and International Relations in the Middle East and North Africa*: Mr. Mortimer.
- 323a. *American Political Process: Parties and the Congress*: Mr. Waldman.
- [351a. *Comparative Political Sociology*: Mr. Glickman.]
- [352a. *International Politics of Communism*: Mr. Hansen.]

Senior Conference: The required senior conference program, for which one unit of credit is given, is designed to synthesize and deepen understanding of the work in the major and in allied subjects. It consists of (a) two colloquia, one offered in each semester, or (b) one colloquium and a senior paper. The colloquia for 1971-72 are:

- 399a. *Senior Colloquium*: Miss Leighton, Mr. Ross.
- 399b. *Senior Colloquium*: Mr. Kennedy, Mr. Salkever.

A senior who elects the second alternative will normally write the senior paper in the semester other than that in which the colloquium

she selects is given. The topic of the paper must be in one of the two fields of concentration (see below) and is supervised by a member of the Department whose specialty is in the same or related fields.

The topics of the colloquia change from year to year. Each colloquium is concluded by a general examination in political science. This examination, though general in nature, is designed to draw on the work of the particular colloquium.

Seniors who have taken a field in an allied subject may offer work in the senior conference of that subject as a part of the political science senior conference. If this alternative is chosen, *one* colloquium in political science is required. Each program must be individually planned and approved by the chairman and by the allied department.

Fields of Concentration

1. *Political Philosophy and Theory*

Political Analysis; Western Political Philosophy; Recent Political Philosophy; Sources and Varieties; Western Political Thought: Ancient and Medieval; Political Behavior; Theory and Practice in Political Philosophy; Selected Topics in Modern Political Thought; American Political Theory (Haverford); Problems in Contemporary American Political Theory (Haverford).

2. *Politics and Law in American Society*

American National Politics; Community Politics; Ethnic Group Politics; Constitutional Law; Law and Education; Law and Society; Law, Policy and Personality; Law and Poverty; The American Political Process: Parties and the Congress (Haverford); Problems in Contemporary Political Theory (Haverford); Public Opinion, Private Interests and the Political System (Haverford); Public Policy: Civil Rights and Poverty (Haverford).

3. *Comparative Politics*

Government and Politics in East Asia; Communism and Nationalism in Asia; Government and Politics in Western Europe; Introduction to Latin America; Latin American Affairs; Twentieth Century China and India; Western European Integration; Problems in Comparative Politics; China, Japan, and India: Problems in Modernization; The Soviet System (Haverford); African Civilization: Tradition and Transformations (Haverford); Comparative Politics: Political De-

velopment (Haverford); Comparative Political Sociology (Haverford); Racial, Ethnic and Class Politics (Haverford).

4. *International Politics and Law*

International Law; Problems in International Politics; East Asian Foreign Policies; International Relations (Haverford); International Organization (Haverford); Politics and International Relations in the Middle East and North Africa (Haverford); International Politics of Communism (Haverford). With the consent of the Department, certain comparative courses may be counted in this field.

Honors Work: Seniors admitted to Honors work prepare an independent research paper (one unit of credit) under the supervision of a member of the Department. Field work is encouraged.

Interdepartmental Work: The Department of Political Science participates in the Interdepartmental concentration in *Hispanic and Hispanic-American Studies* and in the Interdepartmental major in the *Growth and Structure of Cities*. See pages 143 and 141.

Teaching Certification: A sequence of work offered by the Department of Political Science and the Department of Education of the College leads to a certificate to teach in the secondary schools of Pennsylvania.

Psychology

Professors: Richard C. Gonzalez, PH.D., *Chairman*¹

Howard S. Hoffman, PH.D.

Adjunct Professor: Larry Stein, PH.D.

Associate Professor: Matthew Yarczower, PH.D., *Acting Chairman,*
Semester I

Assistant Professors: Clark McCauley, PH.D.

Earl Thomas, PH.D.

Lecturers: Erika R. Behrend, M.A.

Alice S. Powers, PH.D.

Assistants: Gwyneth H. Beagley, B.A.

Leonard A. Eiserer, B.A.

The Department offers to the major student a representative account of methods, theory and findings in Comparative, Experimental, Physiological and Social Psychology. The program of work is planned to encourage the student, in the first two years of study, to sample widely from among the course offerings in these areas, and to permit her, in the final two years, to focus attention (by course work and research) on the one or two areas of her principal interest.

Requirements in the Major Subject: Psychology 101; two courses from each of the following groupings of courses: (a) Psychology 201a, 201b, 202a, 202b; (b) Psychology 205a, 205b, 206b, 207a; (c) Psychology 301a, 305a, 306b, 307a, 308b, 309; one unit of allied work in either Biology, Chemistry, Physics, or Mathematics. The Senior Conference is also required. Psychology 207a is strongly recommended to students preparing for graduate work. Psychology 101 is prerequisite to all other courses offered by the Department with the exception of Psychology 207a and any second semester course at the 200 level, either or both of which may, with departmental permission, be taken concurrently with Psychology 101.

Allied Subjects: Anthropology, Biology, Chemistry, Education, History of Science, Linguistics, Mathematics, Philosophy, Physics, Sociology. At least one unit must be taken from among Biology, Chemistry, Physics and Mathematics.

1. On leave, semester I, 1971-72.

101. *Experimental Psychology*: Mr. Gonzalez, Mr. Hoffman, Mr. Thomas, Mr. Yarczower.

The experimental study of behavior and its physiological basis. A survey of methods, facts, and principles: sensation, perception, motivation, emotion, learning, and thinking. Three hours lecture and four hours laboratory each week.

The following courses include individual laboratory research projects.

- 201a. *Comparative Psychology*: Mr. Yarczower.

The evolution of behavior: sensory and motor capacities, instinctive activities, motivation, learning, group processes, social behavior.

- 201b. *Animal Learning*: Mr. Gonzalez.

Comparative studies of conditioning and selective learning; theories of learning; the evolution of intelligence.

- 202a. *Motivation*: Mr. Gonzalez, Mr. Hoffman.

The activation and regulation of goal-directed behavior: affectional processes, psychological drives, incentives, frustration, conflict, punishment and anxiety.

- [202b. *Human Conceptual Behavior*: Mr. Yarczower.]

Experimental analysis of problem solving, concept formation, thinking and language.

- 205a. *Social Psychology*: Mr. McCauley.

The psychological study of man in society.

- 205b. *Psychology of the Normal Personality*.

Survey of the major theories. Developmental, clinical and experimental evidence relating to the "normal" personality.

- 206b. *Developmental Psychology*.

- 207a. *Experimental Methods and Statistics*: Mr. McCauley.

Measurement, descriptive statistics, probability, association, testing of hypotheses, the design of experiments and associated problem exercises.

- 301a. *Physiological Psychology*: Mr. Thomas.

The physiological and anatomical bases of experience and behavior: sensory processes and perception, emotion, motivation, learning and cognition.

[305a. *Sensation and Perception.*]

306b. *Psychological Measurement*: Mr. McCauley.

Scale and test construction; evaluation of standardized tests; intelligence and the structure of abilities; personality assessment, educational, vocational and clinical application of tests.

307a. *Social Psychology of Attitudes*: Mr. Perloe (Haverford).

308b. *Psychology of the Abnormal Personality*: Mr. McCauley and Mr. Stein.
Lecture and discussion meetings on selected topics in abnormal psychology.

311a. *Selected Problems in Comparative Psychology*: Members of the Department.
& b.

312a. *Selected Problems in Physiological Psychology*: Members of the Department.
& b.

313a. *Selected Problems in Experimental Psychology*: Members of the Department.
& b.

314a. *Selected Problems in Social Psychology*: Members of the Department.
& b.

315a. *Selected Problems in Child and Developmental Psychology*: Members
& b. of the Department.

357b. *Computer Usage in the Life Sciences*: Mrs. Pruett.

(INT.) Experiments in the Life Sciences will be analysed using computer techniques. The Fortran IV Language will be developed and used throughout the course. Limited to advanced students with research experience; no previous training in the use of the computer required. Lecture two hours, laboratory two hours.

403. *Supervised Research in Psychology*: Members of the Department.

Laboratory or field research under the supervision of a member of the Department.

Senior Conference: Seniors meet throughout the year as a group with individual members of the Department to discuss brief papers on topics assigned at the beginning of the year.

Honors Work: One unit of Honors work may be taken by students nominated by the Department.

Russian

Professor: Frances de Graaff, PH.D., *Chairman*

Associate Professor: Ruth L. Pearce, PH.D.

Assistant Professor: Irene Nagurski, PH.D.

Instructor: Helen Segall, B.S.

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.

Requirements in the Major Subject: Russian 001, 101, 200 or 201, one advanced literature course and the Senior Conference. Also Russian 203 or History 244 (History of Russia) or Economics 210a. If a student offers Russian for entrance, Russian 203 or History 244 may be substituted.

Allied Subjects: Economics 210a, History 244 (strongly recommended), 301; any language or literature, History of Art, Music, Philosophy.

001. *Elementary Russian:* Mrs. Pearce.

The basic grammar is learned with enough vocabulary to enable the student to speak and understand simple Russian and to read simple texts.

100. *Intensive Russian:* Miss de Graaff, Mrs. Segall.

A double course covering the work of Russian 001 and 101. It will meet ten hours per week and give two units of credit.

101. *Intermediate Russian:* Mrs. Pearce, Mrs. Segall.

Grammar review and composition. Introduction to the Russian literary language. Readings in Russian classics and contemporary materials.

200. *Advanced Training in the Russian Language:* Mrs. Segall.

Oral use and composition are stressed. Conducted entirely in Russian.

201. *Readings in Russian Literature*: Miss Nagurski.

Representative writers of the nineteenth and twentieth centuries. Conducted mostly in Russian.

[202.* *General Readings in Russian*.]

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.]

305. *Advanced Grammar*: Mrs. Pearce.

Senior Conference: On a period of literature not covered by the current courses. The work at this conference will be evaluated by one examination in the Russian language (to be given at the beginning of the second semester) and one in Russian literature.

Honors Work: Honors work is offered to students recommended by the Department.

Sociology

Professor: Eugene V. Schneider, PH.D., *Chairman*

Assistant Professors: William R. F. Phillips, PH.D.

Judith R. Porter, PH.D.

Katharine E. McBride Visiting Lecturer: Mario Gaviria, LIC.D.

Visiting Lecturer: Lila Karp, M.A.

Lecturers: Jo-Anne Thomas, M.A.T.

Robert E. Washington, M.A.

Assistants: Alexa Albert, M.A.

Sandra Schoenberg, M.A.

Assistant Professors of Social Work and Social Research:

Sally Hollingsworth, M.S.S.

Dolores Norton, M.S.S., PH.D.

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. Stress is also placed on the major strains and problems of modern society. 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.

Requirements for the Major Subject: 102a & b, a course in methods or theory and additional work to be chosen from courses offered at Bryn Mawr or courses above the introductory level at Haverford. A total of three and one-half units of course work is required in addition to the Senior Conference.

Allied Subjects: Anthropology, Economics, Social Psychology, Political Science, American History, American Literature, Mathematics.

102a. *Introduction to Sociology:* Mrs. Porter.

Analysis of the basic sociological perspectives, methods and concepts used in studying society. Emphasis is placed on culture, social system, personality, and their interrelationships. Concrete applications of sociological analysis are examined.

102b. *American Social Structure*: Mr. Schneider.

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. *Social Welfare and the Individual and His Environment*: Mrs. Norton.

The effect of various physical, economic, cultural and racial environments on the development of the individual, and social work and social welfare approaches designed to meet these varieties of human behavior.

202b. *Social Problems and Social Work Practice*: Mrs. Hollingsworth.

Social breakdown and its impact on the individual, with particular reference to the interaction between the individual and the community. Various methods of social work intervention will be examined.

205b. *Social Stratification*: Mr. Schneider.

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.

207a. *Race Relations*: Mrs. Porter.

Examination of theories of prejudice and attitude change, the structure of the minority community and its relationship to the majority, with major emphasis placed on Negro-white relations in the United States. Prerequisite: Sociology 102a or consent of instructor.

209b. *Sociology of Religion*: Mrs. Porter.

Analysis of the interrelationship between religion and society, drawing upon the works of major social theorists. Emphasis is placed on the connection between religious systems and secular culture, social structure, social change, secular values and personality systems. Prerequisite: Sociology 102a.

215a.* *Field Work in Urban Studies*: Miss Thomas.

& b. A multi-disciplinary approach to the urban situation as it is mani-

fested through the public school system. Approximately three hours per week are dedicated to individual in-school instruction with Junior High School students. A weekly seminar includes several outside discussions and offers varying perspectives on the problems involved.

218a. *Sociology of Developing Countries*: Mr. Washington.

A comparative study of the social conditions and consequences of industrialization among the countries of the Third World. Attention will be paid to emergent social strains, ideologies, social movements and political organizations.

220a. *Political Sociology*: Mr. Phillips.

An analysis of historic and contemporary power structures, the role of elites and masses in political systems, and the relationship between the polity and other institutions.

235a. *Women in Literature*: Mrs. Karp.

An exploration of the female experience through the work of modern women novelists.

235b. *The Role of Women (II)*: Mrs. Karp.

Identity and experience among women. The students will be asked to engage in creative writing, in order to explore the feminine role.

240a. *Urban Sociology*: Mr. Phillips.

An analysis of urban social structures. Topics considered are: the urban polity, the psychology of urban life, the economic function of cities, and contemporary urban problems.

245b. *Social Problems*: Mr. Washington.

A survey of major problems in American society as seen by sociologists and social critics. Topics considered are: crime, education, drug addiction, the police, divorce, racial ghettos and violence.

252a. *The Structure of the Spanish Community*: Mr. Gaviria.

The effects of urbanization on the traditional communities of Spain.

255b. *The Sociology of Alienation*: Mr. Washington.

An examination of a variety of theoretical approaches to the phenomena of powerlessness, loss of meaning, estrangement, inauthenticity, etc., and an analysis of the social conditions giving rise to and resulting from alienation.

302a. *Social Theory*: Mr. Schneider.

An examination of the extent to which the writings of classical and modern theorists can throw light on wide-ranging social, cultural, and historical processes.

305b. *Sociological Methods*: Mr. Phillips.

An examination of various techniques for conducting empirical enquiry in Sociology; research design, collection of data, methods of interviewing, analysis, etc.

Senior Conference: The form and evaluation of the conference will be determined in consultation with the senior majors.

Honors Work: Honors work is offered to students who have demonstrated proficiency in their studies in the Department of Sociology, and will consist of independent reading and research, conferences and the preparation of a written report.

Interdepartmental Work: The Department of Sociology participates in the Interdepartmental concentration in *Hispanic and Hispanic American Studies*. See page 143.

Courses at Haverford

In general students may enroll for major credit in any course above the Introductory level in the Department of Sociology at Haverford. However, the student should first consult the Department of Sociology at Bryn Mawr.

Spanish

Professors: Willard Fahrenkamp King, PH.D., *Chairman*

Joaquín González Muela, D. en F.L.¹

Assistant Professor: Eleanor Krane Paucker, PH.D.

Katharine E. McBride Visiting Lecturer: Mario Gaviria, Lic. D.

Professor of Philosophy: José María Ferrater Mora, Lic. F.L.

The major in Spanish offers work in both language and the literature of all centuries, with emphasis on those periods when Spain and Spanish America have made their maximum contributions to Western culture.

The introductory course treats a selection of the outstanding works of Spanish and Spanish American literature in various periods and genres. Advanced courses deal more intensively with individual authors or periods of special interest. Students may take an advanced course at Haverford if it contributes significantly to their special program. In certain cases, with the approval of the Department and the Dean of the Graduate School, advanced students may also take one graduate course.

One course is devoted to training in written and spoken Spanish. It is recommended that students supplement their course work by spending the junior year in Spain or Spanish America, studying in the summer at the *Centro* in Madrid, or living in the Spanish House. It is strongly advised that all students make use of the tapes available in the Language Laboratory. In Spanish 001 the use of the Laboratory forms an integral part of the course.

Requirements in the Major Subject: The normal course sequence in the major is 101a, 101b, 201a or b, 202a or b, at least four semesters of advanced work and the Senior Conference. Students who spend the Junior year in Spain may substitute an advanced literature course for Spanish 202a or 202b, and students whose precollege training includes advanced work in literature may, with permission of the Department, substitute a unit of more advanced work for 101a and 101b.

Allied Subjects: Any other language or literature, Anthropology, Economics, History, History of Art, History of Religion, Linguistics, Music, Philosophy, Political Science, and Sociology.

1. On leave, semester I, 1971-72.

001. *Elementary Spanish*: Mrs. Paucker.
Grammar, composition, oral and aural training, readings on the Spanish and Spanish-American background.
003. *Intermediate Spanish*: Mr. Gaviria, Mr. González Muela.
Intensive grammar reviews, exercises in composition and conversation, selected readings from modern Spanish texts.
- 101a. *Readings in Hispanic Literature*: Mrs. King.
& b. Spanish and Spanish-American culture and civilization as revealed in outstanding literary works of various periods and genres. Oral expression and practice in writing emphasized.
- [201a. *Spanish Literature of the Nineteenth Century*: Mrs. Paucker.]
- [201b. *The Generation of 1898*: Mrs. King.]
- 202a. *Spanish Readings and Composition*: Mr. Gaviria.
& b. Interpretation of texts, translation, and original composition in Spanish. Assignments are adapted to the needs and level of achievement of the individual student.
- 203a. *Spanish American Literature*: Mrs. Paucker. (Haverford).
& b. The development of social and national consciousness and literary forms from Sarmiento to the present. Selected authors from the Discovery to Independence will also be read.
- 302a. *Medieval Spanish Literature*: Instructor to be announced.
The Castilian epic, lyric poetry and narrative prose from the *Poema del Cid* to Jorge Manrique.
- 303a. *The Modern Novel in Spain and Spanish America*: Mrs. King.
The development of the novel in the Spanish language from the Generation of 1898 to the present; special attention is given to Unamuno, Miró, Cela, Goytisolo, Borges and Cortázar.
- 303b. *Modern Poetry in Spain and Spanish America*: Mr. González Muela.
Hispanic poetry from Unamuno to Hierro and from Darío to Paz.
- [304a.* *Spanish Poetry and Drama of the Golden Age*: Mrs. King.]
- [304b. *Cervantes*: Mrs. King.]

Senior Conferences:

1. In the first semester a senior seminar devoted to study of a special topic in Spanish literature chosen by the students, to be evaluated by a written examination in January.
2. In the second semester individual conferences between each student and her instructor designed to aid the student in the preparation of a paper on an author or theme, chosen by the student, as seen in the context of a whole period in Spanish literature and history. At the end of the semester each student has a brief oral examination in Spanish consisting of the explanation and interpretation of a Spanish text and serving, along with the papers, as the method of evaluation of this conference.

Honors Work: Honors work is offered to students recommended by the Department. This work consists of independent reading, conferences and a long paper.

Interdepartmental Work: The Spanish Department participates in the Interdepartmental concentration in *Hispanic and Hispanic-American Studies*. See page 143.

Interdepartmental Work

As new fields of study open up and as old fields change, it becomes necessary for those interested in them to acquire the information and to learn the methods needed to understand them and to work in them, and these may sometimes be quite diverse. In order to provide opportunity for students to work in these new areas, the Faculty has approved the establishment of the following Interdepartmental Majors and Interdepartmental Area of Concentration.

I. Interdepartmental Majors

Classical Languages

Major Advisors: Professor Lang (Greek)
Professor Michels (Latin)

This major is designed for the student who wishes to divide her time equally between the two languages and literatures.

Requirements: six units of course work in Greek and Latin, normally three of each. At least one unit of advanced course work, but no allied units. A special Senior Conference will be made up from the offerings of the two departments. See pages 89 and 105 for descriptions of courses and conferences.

Classical Studies

Major Advisors: Professor Lang (Greek)
Professor Michels (Latin)
Professor Ridgway (Classical and Near Eastern Archaeology)

This major will provide a broad yet individually structured background for students whose interest in the ancient classical world is general and who wish to lay the foundation for more specialized work in one particular area.

Requirements: eight units of course work, at least one in each of the following: Ancient History (History 205a & b, 206a & b, 313a), Ancient Philosophy (Philosophy 101a or b, 202a, 203b, 350d), Classical Archaeology (Classical and Near Eastern Archaeology 101, 202b, 203a,

205b, 301a, 301b, 302b, 304a), Greek (all courses except 203), Latin (all courses except 202a, 204a & b). At least one unit of advanced work is required, but no allied work. The Senior Conference will be in two parts: one in the field of the advanced unit and a special Classical Studies Conference on some topic to which all fields may contribute. (Two of the required eight units may be taken at Haverford College with the approval of the major advisors.)

French Studies

Major Advisors: Professor Guggenheim (French)
Professor Silvera (History)

The major in French studies, offered jointly by the French and History Departments, is designed to acquaint students with French life and culture in the broadest sense. The major concentrates on a sequence of French and history courses planned according to literary themes, genres, and topics studied in their historical setting, with the possibility of modifying the pattern of concentration to include courses in such allied fields as political science or sociology, philosophy, history of art, or music, to be taken either at Bryn Mawr or at Haverford. A junior year in France under one of the plans recommended by the French Department or summer study at the *Institut d'Etudes françaises d'Avignon*, held under the auspices of Bryn Mawr, forms an integral part of the program. A good command of French, both written and spoken, is required and residence in the French House in Haffner is strongly recommended for all those who need to improve their fluency in French. On the recommendation of the major advisors and with the special approval of the Dean of the Graduate School of Arts and Sciences, students may in certain cases be admitted to some seminars in the Graduate School.

Requirements: Students whose interests are literary will normally elect three units of French and two units of history, while students whose bent is historical will elect three units of history and two of French. (See course descriptions in the Departments of French and History, pages 80 and 92). At least one of these units from either department will be at the advanced level. History/French 290 serves as the introductory

course. The Senior Conference covers selected aspects of the historical, humanistic and institutional features of French civilization.

Allied Subjects: Political Science, Sociology, Economics, History of Art, Philosophy, Music.

The Growth and Structure of Cities

Major Advisor: Professor Lane (History)

In this interdisciplinary major, the student will study the city from more than one point of view. City planning, art and architecture, history, political science, anthropology, archaeology, economics and sociology will contribute toward her understanding of the growth and structure of cities.

Requirements: All students must take Interdepartmental 190 and Interdepartmental 200a (one and one-half units). Each student should select, *in addition* to these courses, three units from among the other major courses listed below. Two additional units, above the introductory level, must be chosen from *one* of the departments listed under Allied Subjects. Each senior will prepare a paper or project embodying substantial research. The paper or project will be presented in written form to the Committee on the Growth and Structure of Cities, and in oral or visual form to all seniors in the major meeting as a group. These oral presentations and the resulting discussions will serve as the Senior Conference.

Allied Subjects: Political Science, History, History of Art, Sociology, Economics, Fine Arts, Greek, Latin, Classical and Near Eastern Archaeology, Anthropology. Occasionally, with permission of the Graduate Dean of the School, Courses in Social Work and Social Research.

190. *History: The Form of the City:* Mrs. Lane. See History 190. Alternate years.
- [200a. *Urban Society:* Members of the Department.]
(INT.) The techniques of the social sciences as tools for studying historic and contemporary cities. Every year, beginning 1972-73.
- 202b. *Archaeology: Ancient Cities of the Near East and Greece:* Mrs. Ridgway, Mr. Nylander. See Archaeology 202b.

- 204a. *The Ancient City*: Mr. Scott.
(INT.) The course will investigate the historical developments of the Greek and Roman cities of the Mediterranean from Alexander's conquest of Asia to the foundation of Constantinople. Particular attention will be given to their organization and purpose, and an effort made to discern the theoretical and practical attitudes to them of their inhabitants. Primary and secondary source material, where possible, will be in English.
- 218a. *Political Science: Community Politics*: Mr. Ross.
See Political Science 218a.
- 270b. *History: Medieval Cities: Islamic, Byzantine, Western*: Mr. Brand.
See History 270b. Alternate years.
- 300b. *The American City in the Twentieth Century*: Mr. Speizman.
(INT.) (Graduate School of Social Work and Social Research)
Social transformations under the impact of rapid urbanization. Includes some comparative study of urbanization in other societies.
- [305a. *History: The Italian City State in the Renaissance*: Mrs. Lane.]
See History 305a. Alternate years.
- [311b. *History: Colonial Towns in North and South America*: Mrs. Dunn.]
See History 311b. Alternate years.
- 316b. *Political Science: Ethnic Group Politics*: Mr. Ross.
See Political Science 316b.
- [324a. *History of Art: Problems in Modern Architecture*: Mr. Marks.]
See History of Art 324a.

II. Interdepartmental Area of Concentration

Hispanic and Hispanic-American Studies

Major Advisors: Professor Dunn (History)

Professor King (Spanish)

The program is designed for students interested in a comprehensive study of the society and culture of Spanish-America and/or Spain. Its aims are (1) to provide the student, through a formal major in Anthropology, History, History of Art, History of Religion, Economics, Music, Political Science, Sociology, or Spanish, with a valid means for thorough study of one aspect of Hispanic or Hispanic-American culture, (2) to afford an introduction, through the study of allied courses dealing with Spain or Spanish-America, to other aspects of the cultural complex, (3) to effect a synthesis of the student's studies through a Senior Conference, in which all students in the program participate, on a broad topic that cuts across all the major areas involved.

Requirements: Competence in Spanish; in addition to the courses in the major department, at least 2½ units of work from courses listed below and from selected courses at Bryn Mawr's *Centro de Estudios Hispánicos* in Madrid; in the junior or senior year, a long paper or project dealing with Spain or Spanish America; the Senior Conference in Hispanic Studies. (In effect, the student majors in one of the departments listed above with a concentration in Hispanic or Hispanic-American Studies.)

Courses: Anthropology 101, [204], 305a, Economics 202b, History 207, [211b], 212, [307a], [310b], History of Art 213, History of Religion 104a, [326a (Haverford)], 24 (Swarthmore), Political Science 208b, [321a], Sociology 102a, 252a, Spanish: any course including those given in the Centro except 001, 003 and 202, [Interdepartmental 308], [310].

III. Interdepartmental Courses

Each year, certain courses are offered which cut across well-defined areas of knowledge and emphasize relationships among them. Such courses may be 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. 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.

100a. *Introduction to Automatic Computation*: Mr. Snyder, Mr. Zimmerman.

An introduction to numerical calculations with, and methods of treatment of experimental data. A complete introduction to Fortran Programming will be included. The applications and their order of treatment are chosen to illustrate the various major programming constructions as they arise. Two lectures and one recitation hour per week plus two hours of laboratory with the computer. No prerequisite.

[200a. *Urban Society*.]

(INT.) See INT. 200a, page 141.

204a. *The Ancient City*: Mr. Scott.

(INT.) See INT. 204a, page 142.

204b. *Words*: Mr. Damski.

A radical approach to language. The history of ideas as derived from the Greek and Latin names for things. Intensive reading of short selections from contemporary literature, history, philosophy, science and social science. No previous acquaintance with Greek or Latin required.

205. *Narrative Techniques*: Mr. Altman.

The objective of this course is to learn how to read, describe and compare narrative fiction. Texts will be chosen from a wide variety of national literatures and periods. (Semester I: third person narration; Semester II: first person narration.) Prerequisite: a good reading knowledge of one foreign language and permission of the instructor. Students may take either or both semesters.

210a. *The Soviet System*: Mr. Hunter (Haverford).

(INT.) See Economics 210a, page 68.

300b. *The American City in the Twentieth Century*.

(INT.) See INT. 300b, page 142.

307a. *Introduction to Celtic Civilization*: Miss Dorian.

The course will trace the thread of Celtic civilization from the emergence of the Celts in pre-history to their marginal survival in modern times, concentrating on the contributions of mythology, the bardic tradition and the legal system to the uniqueness of Celtic society and on the ancient continuities to be found in surviving Celtic folk custom and tradition.

[308. *Introduction to Linguistics*: Miss Dorian.]

[310. *Introduction to Linguistic Techniques*: Miss Dorian.]

[312b. *Fields Methods in Linguistics*: Miss Dorian.]

313a. *History of Science: Antiquity to the Renaissance*: Mr. Culotta.

(INT.) See History 313a, page 96.

314a. *The Rise of Modern Science*: Mr. Culotta.

& b.
(INT.) See History 314a & b, page 96.

353. *Biochemistry*: Mr. Conner, Miss Koroly, Mr. Prescott.

(INT.) See Biology 353, page 59.

357b. *Computer Usage in the Life Sciences*: Mrs. Pruett.

(INT.) See Biology 357b, page 60.

Fine Art

Associate Professor: Fritz Janschka, *Akad. Maler*

The program is coordinated with, and complementary to, the Fine Arts program of Haverford College (see the Haverford College Bulletin). Courses are offered to both Bryn Mawr and Haverford students who are approved by the instructor.

110. *Free Studio:* Mr. Janschka.

Available two hours a week: (1) to all students, without credit; (2) with permission of the instructor a student may elect studio work on a pass-fail basis to appear on her transcript without credit; (3) with permission of the instructor students with previous experience may elect studio work for credit.

115. *Graphic Arts:* Mr. Janschka.

An introductory course in relief and intaglio print-making. Prerequisites: History of Art 101, a pass grade in Fine Art 110, Haverford Fine Arts 101, or proof of adequate previous training in drawing.

225. *Advanced Drawing:* Mr. Janschka.

An advanced course in drawing as an independent art-form. Prerequisites: Fine Art 115, Haverford Fine Arts 231 or 241, or proof of adequately advanced previous training.

Performing Arts

101a. *Modern Dance: Techniques and Choreography.*

& b. Prerequisite: one year of Dance at Bryn Mawr or approval of the instructor.

403. *Voice or Instrument.*

Students who are sufficiently advanced and who have completed at least one year of voice or music lessons while at the College may with the approval of the Department of Music offer for one unit of academic credit a year of voice or instrument lessons. The unit will include the lessons and also a recital or proficiency test arranged by the Music Department.

Physical Education

Director: Anne Lee Delano, M.A.

Instructors: Jan Eklund Fisher, M.ED.

Linda L. Fritsche, M.S.

Barbara Lember, B.F.A.

Ann Carter Mason, B.S.

Mary L. O'Toole, M.S.

Janet A. Yeager

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, a student's physical education profile score (P.E.P.) can be determined. On the basis of her score each 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. Any freshman may request a re-test at the end of semester I. In the sophomore year a student is required to take Physical Education unless she requests and passes the test.

Students of high-level profile scores may elect any activity offered by the Department, including the specialized units in Dance Orientation, Sports Orientation and Relaxation. Students with high-level scores who do not participate in any activity may miss the opportunity for recreation and relaxation and risk the lowering of the profile score.

Students not in the high-level group will be advised of areas in which they need assistance or they may be free to elect sports activities. They will also be required to take two of the three specialized units mentioned above. Two hours of an activity plus a one hour specialized unit will be taken each week during the first semester and two hours per week thereafter.

Areas contributing to a physical education profile to be determined by testing, using batteries of standardized tests and procedures, adapted to college women:

1. Aptitude and Achievement Battery (performance skill)
 - a. Standing broad jump
 - b. Sand bag throw
 - c. Obstacle course
2. Fitness Battery (strength and endurance)
 - a. Standing broad jump
 - b. Sit-ups
 - c. Push-ups—modified
 - d. 12-minute run
3. Body weight control
4. Swim test (for survival)
 - a. Jump into deep end of pool (feet first entry), tread water one minute, back float motionless for two minutes, demonstrate two strokes while swimming lengths of pool for ten minutes without stopping, resting or touching bottom or sides of pool.
 - b. The swimming test is administered to every new student at the beginning of the year unless she is excused by the College Physician.
 - c. Students *unable* to pass the test must register for beginning swimming.

All students must complete the freshman and sophomore requirements satisfactorily. Upperclassmen are invited to elect any of the activities offered. Transfer students will have their physical education requirement reviewed by the Director of Physical Education.

Seasonal offerings

Fall: archery, fencing, golf, hockey, modern dance, riding,* swimming, tennis, volleyball and American Red Cross Senior Life Saving Course. *Winter:* badminton, basketball, diving, exercise therapy, fencing, folk dance, modern dance, physical fitness, riding,* swimming, tumbling and trampoline and American Red Cross Water Safety Instructor Training Course. *Spring:* archery, golf, lacrosse, riding,* swimming, tennis and American Red Cross Senior Life Saving.

A Modern Dance Club and Varsity teams are open to students with special interests in those areas.

* Open only to Sophomores with permission of the Department, and to Freshmen who have satisfied the requirements.

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.

Three outstanding scholarship programs have 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. Several large corporations sponsor scholarship programs for children of employees. 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 forty-three per cent of the undergraduate students. The value of the scholarships ranges widely, but the average grant is approximately \$1800. 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 grants and loans (see page 172). Students receiving assistance are expected to earn money by part-time

work during the college year and by summer positions. Employment opportunities are described on page 53.

Scholarships are available to entering students, including students entering on transfer, and to students who have completed one or more years of study in the College.

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. Applications for financial aid for transfer students are due *no later than March 1*.

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 with their school counselors about national and local scholarships which may be available and to submit appropriate applications.

Undergraduate Financial Aid

Application for the renewal of financial aid must be made annually. The renewal of the award depends on the student's maintaining a good record and her continued need for assistance. Adjustments are made to reflect changes in the financial situation of the family. Marriage or reaching the age of 21, however, are not considered valid reasons for the withdrawal of parental support or for an increase in financial aid.

The necessary forms for renewal may be obtained in the Financial Aid Office and should be filed with the College Scholarship Service no later than January 1.

Scholarship Funds

The Mary L. Jobe Akeley Scholarship Fund was established by bequest of Mary L. Jobe Akeley. The income from this fund of \$146,375 is to be used for undergraduate scholarships with preference being given to students from Ohio. (1968)

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 fees 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 \$7,196, was established by bequests received for scholarships from alumnae of the College. (1965)

The Marion Louise Ament Scholarship Fund, now totaling \$73,414, was established by bequest of Berkley Neustadt in honor of his daughter, Marion Louise Ament of the Class of 1944. The income is to be used for scholarships. (1967)

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 Edith Heyward Ashley and Mabel Pierce Ashley Scholarship Fund was founded by bequest of Mabel Pierce Ashley of the Class of 1910. In 1969, the fund was increased by \$25,000 by bequest of Edith Heyward Ashley of the Class of 1905. The fund now totals \$50,000 and the income is to be awarded as a scholarship or scholarships to undergraduate students majoring in History or English. (1963)

Note: *The dates in parentheses in the listings on this and the following pages indicate the year the scholarship was established.*

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 \$55,000. (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)

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 was capitalized until in 1969 the fund reached the amount of \$25,000. The income henceforth is to provide scholarships with preference given to students from Toledo, Ohio, or from District VI of the Alumnae Association. (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 \$13,441, 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 \$13,441 by a generous gift from Mrs. Donald Wing of New Haven. (1949)

The Susan Shoher Carey Award was founded in memory of Susan Shoher 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 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 Augusta D. Childs Scholarship Fund was established by bequest of \$45,000 from the estate of Augusta D. Childs. The income is to be used for undergraduate scholarships. (1970)

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 1967 College Bowl Scholarship Fund of \$16,000 was established by the Bryn Mawr College team from its winnings on the General Electric College Bowl Television Program. The scholarship grants were donated by the General Electric Company and by Seventeen Magazine and supplemented by gifts from the Directors of the College. The members of the team were Ashley Doherty (1971), Ruth Gais (1968), Robin Johnson (1969) and Diane Ostheim (1969). Income from this fund will be awarded to an entering freshman in need of assistance. (1967)

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. 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 Rebecca Taylor Mattson Darlington Memorial Scholarship Fund was established by members of her family in memory of Rebecca Taylor Mattson Darlington, Class of 1896. The income is to be used for undergraduate scholarships. (1967)

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 \$12,713, 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 Bennett Brown of the Class of 1930. Preference 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 is to be used to provide scholarships for Protestant students. (1961)

The Cora B. Fobs and F. Julius Fobs Perpetual Scholarship Fund was established by a gift of \$75,000 from the Fobs 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 IV eligible for aid in any undergraduate year. (1964)

The Helen Hartman Gemmill Scholarship, value \$500, given for the year 1970-71, is awarded to a student majoring in English from funds provided by the Warwick Foundation. (1967)

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 demonstrated 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 1969-70, 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 \$9,153, 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 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 award in so far as possible to students whose major subject will lead to a medical education or a scientific education in chemistry. (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 Alice Lovell Kellogg Fund was founded by a bequest of \$5,000 by Alice Lovell Kellogg of the Class of 1903. The income is to be used for undergraduate scholarships. (1967)

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)

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 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 Alice Low Lowry Memorial Scholarship Fund was established by gifts amounting to \$11,738 in memory of Alice Low Lowry of the Class of 1938 by members of her family and friends. The income is to be used for scholarships. (1968)

The Katharine McBride Undergraduate Scholarship Fund was established by a gift of \$5,000 made by Gwenn Davis Mitchell, Class of 1954. The income is to be used for scholarships. (1969)

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 \$13,000, 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 \$25,068, was established by the Class of 1944. The class on its 25th anniversary in May 1969 increased the fund by \$16,600. 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 income is 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. The income from the Peabody Fund is 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 Ethel C. Pfaff Scholarship Fund was established by a bequest of \$295,616 from Ethel C. Pfaff of the Class of 1904. The income from this fund is to be awarded to entering freshmen. (1967)

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 \$6,681, 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 \$11,308 in memory of both Anne Powers and her sister, Mrs. Hough (Ethel Powers), by Nancy Hough Smith of the Class of 1925. (1919)

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 Scholarships were 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 two students. The James E. Rhoads Memorial Junior Scholarship is awarded 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. The James E. Rhoads Memorial Sophomore Scholarship is awarded to a student who has attended Bryn Mawr College for at least one semester and who also meets the above conditions. (1898)

The Ida E. Richardson, Alice H. Richardson and Edward P. Langley Scholarship Fund was established by bequest of \$81,065 under the will of Edward P. Langley. The income is to be used for scholarships. (1970)

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 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 \$7,965, 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 Scholarship Endowment Fund was established by a gift of \$4,300 from Constance E. Flint. The income only is to be used for scholarships. (1970)

The Judith Harris Selig Scholarship Fund was established in memory of Judith Harris Selig of the Class of 1957 by members of her family, classmates and friends. In 1970, the Fund was increased by a further gift of \$18,000 from her parents, Dr. and Mrs. Herman S. Harris. The income from the fund, now totaling \$30,078, is to be used for undergraduate scholarships. (1968)

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 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; 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 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 \$14,000, 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. (1950)

The Elizabeth P. Taylor Scholarship Fund, now amounting to \$13,746, was established by a bequest from Elizabeth P. Taylor of the Class of 1921. (1961)

The Ethel Vick Wallace Townsend Memorial Fund was established by Elbert S. Townsend in memory of his wife, Ethel Vick Wallace

Townsend of the Class of 1908. The income on this fund, held by the Buffalo Foundation, is to be used for undergraduate scholarships. (1967)

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 Mildred Clarke Pressinger von Kienbusch Scholarship Fund was established by C. Otto von Kienbusch in memory of his wife, Mildred Clarke Pressinger von Kienbusch, of the Class of 1909. The income from this fund of \$25,000 will be awarded each year to a student in need of assistance. (1968)

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 \$28,146 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 Margaret Y. Kent Scholarship Fund, Class of 1908, was established by bequest of Margaret Y. Kent of the Class of 1908. The income from the fund of \$7,000 is to be used to provide scholarship assistance to foreign students. (1967)

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)

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 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 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 167). (1915)

The Academy of American Poets Poetry Prize of \$100 has been recently awarded each year 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.

The Horace Alwyne Prize was established by the Friends of Music of Bryn Mawr College in honor of Horace Alwyne, Professor Emeritus of Music. The award is presented annually to the student who has contributed the most to the musical life of the College. (1970)

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. 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 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 *Alexandra Peschka Prize* was established in memory of Alexandra Peschka of the Class of 1964 by gifts from her family and friends. The prize of \$100 is awarded annually to a member of the freshman or sophomore class for the best piece of imaginative writing in prose. The award will be made by a committee of the Department of English who will consult the terms stated in the deed of gift. (1968)

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 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 Katherine Stains Prize Fund in Classical Literature was established by Katherine G. Stains in memory of her parents, Arthur and Katheryn Stains, and in honor of two excellent twentieth-century scholars of Classical Literature, Richmond Lattimore and Moses Hadas. The income on the fund of \$1,000 is to be awarded annually as a prize to an undergraduate student for excellence in Greek Literature, either in the original or in translation. (1969)

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 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 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)

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)

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)

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 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. 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. The total for four years must not exceed \$1,500. Students who wish loans may obtain from the Financial Aid Office or the Alumnae Office the necessary blanks which must be accompanied by a letter of recommendation from the Financial Aid Officer. As a rule, money is not loaned to freshmen or to students in their first semester of graduate work.

While the student is in college no interest is charged, but she may reduce the principal of the loan if she so desires. 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. 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. Non-scholarship students and graduate students are also eligible to apply for loans from this fund.

b. The maximum amount which can be borrowed for any given academic year is \$500.

c. 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. 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.

d. Loans are awarded by the Scholarship Committees of the Undergraduate School, the Graduate School of Arts and Sciences and the Graduate School of Social Work and Social Research.

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.

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Mrs. E. Teisceira deMattos, 2153 Zoersel
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Westmount 217, Montreal, P.Q.

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Mrs. Harald Vestergaard, Hambros Alle 19, 2900 Hellerup

England:

Mrs. Margaret Flower, 3 Village Close, Belsize Lane, London, N.W. 3

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

India:

Miss Harsimran Malik, 28 Golf Links, New Delhi 3

Italy:

Mrs. Enrico Berra, Piazzale Biancamano, 20121, Milano

Japan:

Miss Taki Fujita, 20-4, 2-chome, Higashi-Nakana,
Nakano-ku, Tokyo
Miss Ai Hoshino, 20-4, 2-chome, Higashi-Nakana,
Nakano-ku, Tokyo

Mexico:

Mrs. Arturo Gomez, Liverpool 149-102, Mexico 6, D.F.

Netherlands West Indies:

Mrs. E. A. Eriksen, Box 447, Seroe Colorado, Aruba

Norway:

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ENVIRONMENT The pages of this catalogue were printed on recycled paper manufactured by the Bergstrom Paper Company of Neenah, Wisconsin. At Bryn Mawr in March of 1971 a Life with Earth Committee was organized by Bryn Mawr students and a recycling center opened for collecting paper and glass and for working with community groups on environmental problems.

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 30th Street Station in Philadelphia and from there 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 exit number 36, Pa. # 320, Gulph Mills, which is 3.5 miles east of the toll gate; continue into 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 Penn Central 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 College

1971-72

BRYN MAWR
COLLEGE CALENDAR

**THE GRADUATE SCHOOL
OF SOCIAL WORK &
SOCIAL RESEARCH**

1972-73







Bryn Mawr College Calendar
The Graduate School
of Social Work and Social Research

Issue for the Session of 1972-73
September 1972 *Volume LXV Number 4*

The Graduate School of Social Work and Social Research of Bryn Mawr College 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 curriculum of concurrent course work and practicum 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 or her knowledge in one field in particular. The curriculum is intended for full-time study; however, students who have been admitted to the doctoral program may arrange to begin on a part-time basis.

CORRESPONDENCE regarding admission to The Graduate School of Social Work and Social Research should be addressed to:

Office of Admissions
The Graduate School of Social Work and Social Research
Bryn Mawr College
815 New Gulph Road
Bryn Mawr, Pennsylvania 19010

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*Frontispiece—The Mariam Coffin Canaday Library
The Graduate School of Social Work and Social Research*

Academic Calendar 1972-73

The Graduate School of Social Work and Social Research

First Semester

1972

- Sept. 5 *Graduate residences open.*
- Sept. 6 *Registration of all Social Work students.*
- Sept. 7 *Convocation. First semester seminars begin.*
- Sept. 21 *Practicum begins.*
- Oct. 14 *Graduate School Foreign Language Test for Ph.D. students.*
- Oct. 20 *Fall vacation begins at 5 p.m. (Practicum continues on regularly scheduled days.)*
- Oct. 25 *Fall vacation ends at 8:40 a.m.*
- Nov. 22 *Thanksgiving holiday begins after last seminar. (No practicum.)*
- Nov. 27 *Thanksgiving holiday ends at 8:40 a.m.*
- Dec. 12 *Last day of seminars for first semester; practicum continues on regularly scheduled days.*
- Dec. 12-13 *Registration for second semester.*
- Dec. 18-20 *Examinations.*
- Dec. 20 *Winter vacation begins at 5:30 p.m. (No seminars or practicum.)*

1973

- Jan. 4 *Practicum resumes on regularly scheduled days.*
- Jan. 12 *Last day of practicum in first semester.*

Second Semester

1973

- Jan. 15 *Convocation. Second semester seminars and practicum resume on regularly scheduled days.*
- Feb. 3 *Graduate School Foreign Language Test for Ph.D. students.*
- Mar. 9 *Spring vacation begins at 5 p.m. (Practicum continues on regularly scheduled days.)*
- Mar. 19 *Spring vacation ends at 8:40 a.m.*
- Mar. 28 *Ph.D. dissertations must be submitted to the Office of The Graduate School of Social Work and Social Research.*
- Apr. 14 *Graduate School Foreign Language Test for Ph.D. students.*
- Apr. 27 *Last day of seminars and practicum.*
- Apr. 30 *Master's Papers due.*
- May 7-9 *Examinations.*
- May 14 *Conferring of degrees and close of 88th academic year of the College and the 57th year of the School. Graduate residences close.*

Admission to The Graduate School of Social Work and Social Research

The Graduate School of Social Work and Social Research is open to qualified graduates from colleges or universities of recognized standing. Both men and women are admitted to the School and are accepted as candidates for the degrees of Master of Social Service and Doctor of Philosophy.

Application for admission, to be made to the Office of Admissions of the School, must be supported by official transcripts of the applicant's academic record, both graduate and undergraduate. The Miller Analogies Test is required. (Instructions concerning this test will be given after the application has been received.) A letter from the dean of each college or university attended and letters from two or more professors with whom the applicant did his or her preparation are required and will be requested by the School.

An application fee of \$15 must accompany the application. This fee is not refunded or credited toward tuition. The closing date of applications is February 15.

A personal interview is usually arranged with a member of the faculty of the School or with an appropriate person near the residence of an applicant living a considerable distance from Bryn Mawr.

Within ten days after official notice of admission to The Graduate School of Social Work and Social Research, an enrollment fee of \$100 is to be paid to the Comptroller of Bryn Mawr College. This fee is credited to the tuition for the first semester. It is not refunded if the student fails to register.

Foreign Applicants

The closing date for applications is February 15 for admission the following September. Applications must include the scores of the Test of English as a Foreign Language (TOEFL). Candidates who will be offering scores of the TOEFL must register for it in September and take the test not later than October of the year preceding the year in which they wish to enter.

For information concerning the TOEFL write to: TOEFL, Educational Testing Service, Princeton, New Jersey 08540. Tests are given on October 30, 1972; January 15, March 16, and June 4, 1973.

A very limited amount of financial support is available for foreign students.

Financial Aid

A limited amount of financial aid is available for full-time students in The Graduate School of Social Work and Social Research. Some fellowships and scholarships are provided from the general funds of the College, from the gifts of alumni and other generous donors, and from government agencies and private foundations.

Bryn Mawr College administers a number of loan funds under the supervision of a Loan Fund Committee. The Gerard and Mary Hill Swope Loan Fund was established in 1962 and is available for men and women. The maximum amount which can be borrowed for any given academic year is \$500. No interest is charged while the student is at Bryn Mawr. The interest rate is three percent, to be paid after the student leaves Bryn Mawr. The principal is to be repaid within five years from the time the student leaves Bryn Mawr at the rate of twenty percent each year.

Bryn Mawr also participates in the National Defense Student Loan Program, NDEA Title II. Loans are available to qualified graduate students under this title.

Other loan funds—the Bertha Goldstein Memorial, the Rachel Pflaum Memorial, the Ethel Rupert Memorial and the Carola Woerishoffer Club Fund—from which small amounts can be borrowed are also available.

The terms of the various awards and loans 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 in making certain awards. Requests for financial assistance are considered after the application process is completed and applicants have been admitted into The Graduate School of Social Work and Social Research. The School requires that students seeking financial aid file the College Scholarship Service Student's Financial Statement. This form will be sent upon request after a student is admitted.

Students are urged to explore loans which are made available through the state in which they have established residence, such as the Pennsylvania Higher Education Assistance Authority Loan in Pennsylvania.

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

Transfer Credit

Transfer credit in an amount up to the equivalent of one year of the program for the M.S.S. may be allowed for work done at other accredited schools of social work. 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 Dean.

Residence Requirements

For the Ph.D. degree, candidates must be in residence two years; this may be reduced to one year for Bryn Mawr graduates. Part of the work for the Ph.D. may be done in other institutions. For the M.S.S. degree candidates must be in residence one year.

University of Pennsylvania Reciprocal Plan

Under the Reciprocal Plan, courses at the University of Pennsylvania Graduate School of Arts and Sciences are available to Bryn Mawr graduate students. All full-time students and such part-time students as intend to become candidates for the Ph.D. degree are eligible. The number of courses which may be taken at the University is limited to one per semester. 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 Arts and Sciences of the University of Pennsylvania when registering there. The University charges a small general fee for the use of the library, a library deposit, which is refundable, and fees for late registration. Ordinarily students are not advised to undertake such work during their first year at Bryn Mawr.

Degree Candidacy

Students become candidates for advanced degrees only after they have met the School's requirements and, in the case of the Ph.D. degree, made formal application which has been approved by the members of the faculty on the Doctoral Committee of The Graduate School of Social Work and Social Research.

Continuing Enrollment

Students who have completed the required academic units for the Ph.D. degree and are continuing independent work on their dissertations must retain their enrollment and degree candidacy by registering for one or more units each semester or must register under the continuing enrollment plan. Such enrollment does not carry academic credit.

Summer Work

Arrangements can be made for doctoral students to continue research during the summer or to enroll for tutorials and independent study. The amount of credit for the work and the tuition fee to be charged depend upon the particular circumstances. Students should register for such work with the Dean at The Graduate School for Social Work and Social Research early in May.

Registration

Every student in The Graduate School of Social Work and Social Research must register for courses during the registration period listed in the School Calendar. Permission to make any change in registration must be received from the Dean of the School.

Only courses given in The Graduate School of Social Work and Social Research are described in this Calendar. Unless otherwise noted, these are for one semester. Descriptions of other graduate courses given at Bryn Mawr may be found in the Calendar of the Graduate School of Arts and Sciences.

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 1 of the academic year following that in which the work was due. After November 1 the work will be graded *Unsatisfactory* or the term *Incomplete* will remain permanently on the record.

Exclusion

The College reserves the right to exclude at any time any student whose academic standing is unsatisfactory or whose conduct renders him or her an undesirable member of the college community. In such cases fees will not be remitted or refunded in whole or in part; fellowships and scholarships will be cancelled.

Withdrawal and Readmission

A student who has withdrawn from the School is not automatically readmitted. After a year's absence he or she may request readmission and should consult the Dean and the Chairman of Admissions concerning the procedure to be followed.

Leaves of Absence

A student whose academic work is in good standing may apply to the Dean for a leave of absence. A leave is generally requested for an academic year. If the student wishes to return to the program at the end of that year, he or she should write to the Dean requesting reinstatement. Available space in the program and length of time the student has been away from the School will be factors affecting reinstatement. A student extending leave beyond the approved period will need to reapply for admission to the School.

Medical Leave of Absence

The student may, on the recommendation of a physician, at any time request a medical leave of absence for reasons of health. Re-entrance will be granted upon evidence of the student's capacity to meet the demands of his or her program and recommendation of the Dean.

Programs and Degrees

Bryn Mawr College awards the degrees of Master of Social Service and Doctor of Philosophy in The Graduate School 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 Service Delivery, Social Service Management, Community Development, or Social Planning. Two academic years of full-time study are required. The degree represents the completion of a concurrent program of course work and practicum. Provision is made for field instruction in a range of public and voluntary agencies and organizations with programs in such fields and settings as: Child and Family Welfare, Community Mental Health, Corrections, Gerontology, Health, Intergroup Relations, Legal Services, Mental Retardation, Narcotics Addiction and Drug Abuse, Neighborhood Organization, Public Education, Public Welfare Administration, Social Planning, Social Rehabilitation, Social Welfare Research, and Urban Renewal.

Prerequisites. The prerequisite for the M.S.S. degree is a Bachelor's 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.

PROGRAM OF WORK

The first-year program is similar for all students except for the selection of either Social Casework or Community Organization as the principal focus in social work practice. The first-year required courses are:

- Social Casework I and II
- or
- Community Organization I and II
- and the following:
- Personality Theory
- Social Theory
- Social Welfare Policy and Services
- Concepts in Research and Statistics
- Field Instruction I and II

BRYN MAWR COLLEGE

In addition the student is expected to select two electives during the first year of study.

The courses required in the second year are in part determined by the student's area of practice concentration. These include a choice of Social Service Delivery, Social Service Management, Community Development, or Social Planning; and for all students, a practicum.

SECOND-YEAR OPTIONS

Community Development

Community Development deals with both geographic and functional communities and is concerned with the development of a sense of community within a group, increased self-determination of a community especially in regard to institutionalized social services, and the process of organizing within a community both for internal and external social change.

Social Planning

Social Planning enables students to understand: the assumptions underlying planning in general; the elements of a general theory of planning; the inter-relationships among auspices, funding, clientele, discipline of the planner, objectives, and the planning process; and the distinctive criteria of social planning by social workers. Social Planning is viewed as planning for the distribution of resources.

Social Service Delivery

Social Service Delivery is concerned with a range of activities which is designed to enhance the social functioning of individuals, families, and small groups and to improve the structure of the systems through which organized social provisions of the community are offered. Direct and indirect methods of intervention, such as casework, family therapy, group therapy, and consultation, are among the activities utilized to accomplish these purposes.

Social Service Management

Social Service Management has as its central goal the improvement of the structure and quality of social services. Social Service Management prepares students to assume responsibility for organizing and marshalling the delivery of services; analysis, evaluation, and planning of programs; training and supervision of other categories of social welfare personnel; manpower development and

SOCIAL WORK AND SOCIAL RESEARCH

examination and evaluation of policies; developing and monitoring organizational structure and procedures in relation to delivery of services.

REQUIREMENTS FOR THE M.S.S. DEGREE

Candidates for the M.S.S. degree must complete a minimum of eighteen semester courses, including a practicum. Each student's program of study consists of a combination of required and elective courses. Each candidate also must submit an acceptable Master's Paper in an area of social work or social welfare.

ELECTIVES

The student, in consultation with his or her advisor, is expected to elect additional courses during the second year of study. Electives are offered in this School and in The Graduate School of Arts and Sciences at Bryn Mawr. With permission of the Dean of The Graduate School of Social Work and Social Research students in the School may elect courses in The Graduate School of Arts and Sciences of the University of Pennsylvania under the reciprocal plan.

The reduction of required courses and the increase in electives is one principle which has guided the development of the curriculum. Another principle provides the opportunity for each student who demonstrates competence in a required course, including the practicum, to request a waiver of this required course in favor of an additional elective.

SPECIAL PART-TIME PROGRAM

It is possible for a small number of students for the Master's degree to extend the two-year program to three years. The 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.

Bryn Mawr does not enroll students except in degree programs.

NON-CREDIT SEMINAR

Supervision in Social Work

This seminar will relate basic learning theory to learning in social work. Emphasis will be placed on identifying learning patterns of the student or staff member, the appropriate use of the supervisory method, and selection of educational experiences related to varying patterns. Given on an audit basis for those with limited field instruction or supervisory experience.

The Degree of Doctor of Philosophy

The curriculum for the Ph.D. 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, graduate and undergraduate, is also provided. The study of social work practice emphasizes theoretical work. Social policy development and analysis is given special attention.

The candidate for the Ph.D. degree should have ability of a high order, intellectual curiosity, critical judgment, independence, a broad general education, and usually a Master's degree. Some experience in social welfare is desirable.

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

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

The following seminars are required:

Social Statistics I—one semester
Research—one semester
Social and/or Behavioral Sciences—two semesters
History and Philosophy of Social Welfare I—one semester
Theory in Social Work Practice—one semester

In general, a minimum of twelve semester seminars plus two courses focusing on the dissertation are completed in preparation for the Ph.D. degree. Beyond the required seminars doctoral students may elect courses in this School, The Graduate School of Arts and Sciences at Bryn Mawr, or The Graduate School of Arts and Sciences at the University of Pennsylvania under the reciprocal plan.

The requirements for the Ph.D. degree in The Graduate School of Social Work and Social Research are:

1. An acceptable baccalaureate degree and undergraduate preparation satisfactory to the School.

2. In general, a Master's degree from an accredited school of social work or social welfare and preparation satisfactory to the School. Exceptions may be made for a student who has completed a Master's degree and satisfactory preparation in an allied field and presents significant experience in social work or social welfare or for a student in the M.S.S. program whose competence and qualifications as demonstrated in performance in this program promises that he or she can meet the demands of the Ph.D. program without first completing the M.S.S. degree.
3. Completion of a minimum of two academic years in full-time residence in The Graduate School of Social Work and Social Research. For students who have completed the M.S.S. degree at Bryn Mawr, the residence requirement is reduced to one year.
4. Satisfactory completion of a course of study consisting of a minimum of twelve semester courses or seminars, including both those which are required and are elective. In addition, two tutorials in supervised work on the dissertation are required. These dissertation courses may be part of the residence requirements or in addition to it.
5. A reading knowledge of a modern foreign language approved by a written examination.
6. The acceptance of the student into candidacy for the Ph.D. degree.
7. Satisfactory completion of the Preliminary Examinations consisting of written examinations in four areas and an oral examination by the candidate's Supervisory Committee. The oral examination is intended to test the candidate's general knowledge in his or her areas and fields rather than familiarity with particular courses.
8. The preparation of a dissertation judged to be worthy of publication. The dissertation must represent independent investigation and writing and must contain new material, results, or interpretations.
9. A satisfactory Final Oral Examination in the special area in which the dissertation has been written.
10. The publication of the dissertation in whole or in part. Micro-filming is accepted as a method of publication.

Resources for Graduate Work at Bryn Mawr

The Mariam Coffin Canaday Library, and the eight auxiliary libraries of Bryn Mawr College, including the Art and Archaeology collection in the M. Carey Thomas Library, contain over 360,000 books and regularly receive nearly 2000 periodicals as well as many scholarly series. The Library has generous hours of opening throughout the year. Books are readily accessible on open stacks and in study rooms; individual carrels are available for advanced students.

The John D. Gordan Reference Center provides a focus for reference books and services in the new library. In its card catalog, the main entry cards of the Haverford College Library join those of the Bryn Mawr Library, thus bringing approximately 625,000 entries into one file. In addition, the Library is a member of the Union Catalogue of Pennsylvania, which locates nearly 7,000,000 volumes in the Philadelphia area and throughout the state, including the libraries of the American Philosophical Society, the Library Company of Philadelphia, the Historical Society of Pennsylvania, the Academy of Natural Sciences, the Free Library of Philadelphia, the Franklin Institute, the College of Physicians, the Rosenbach Foundation, the University of Pennsylvania and Temple University.

Through its membership in the Uni-Coll Corporation, a regional educational computer consortium, Bryn Mawr College has access to the resources and technical support of a major computing center. A high speed, remote batch terminal (printer at 600 lines per minute, card reader at 600 cards per minute) and nine teletypewriter terminals located on campus link the College with the Uni-Coll IBM 370, Model 165 computer. These facilities make available to faculty and students batch, remote job entry, and interactive computing supported by a large variety of programming systems.

Graduate Program for Master of Social Science

Candidates for the M.S.S. degree must complete a minimum of eighteen semester courses or seminars, including a practicum. Each student's program of study consists of a combination of required and elective courses.

The basic first-year program is similar for all students except that the student selects either Social Casework or Community Organization as his or her principal focus in social work practice. The first-year required courses are:

- Social Casework or Community Organization (two semesters)
- Field Instruction—Coordinated with one of the above (two semesters)
- Concepts in Research and Statistics
- Personality Theory
- Social Theory
- Social Welfare Policy and Services

In addition, the student is expected to select two electives during the first year. Thus, the usual first-year program is composed of ten semester courses.

The courses required in the second year are determined by the student's area of concentration in social work practice. The second-year options are: Community Development, Social Planning, Social Service Delivery, or Social Service Management. Field Instruction is coordinated with one of these choices. Normally, the first-year preparation for Community Development or Social Planning is Community Organization; the preparation for Social Service Delivery or Social Service Management is Social Casework. In addition, the student is expected to enroll in four electives, two each semester. Each candidate also must complete a Master's Paper in an area of social work or social welfare. Thus, the usual second-year program is comprised of eight semester courses and a non-credit Master's Paper.

REQUIRED COURSES

First Year of the MSS Program

The student selects either Social Casework or Community Organization as his or her principal focus in social work practice. Other

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required first-year courses are Field Instruction I and II, Concepts in Research and Statistics, Personality Theory, Social Theory, and Social Welfare Policy and Services.

Community Organization I

The course introduces various concepts of community organization practice. Relationships between the values and various roles of the practitioner, organizational goals and structures, and the community are examined, utilizing the students' field experience as a focus. Historical and current trends in professional practice are considered.

Community Organization II

Emphasis of the seminar is on analysis and understanding of the multiple roles and skills utilized in community organization practice. Consideration is given to the organizing process, to techniques of problem solving in different groups and settings, and to the choice of appropriate action strategies. The effect of current social issues on the professional's task is explored.

Social Casework I

The function of social casework in social work as related to the problems of individuals and primary groups. Theory and application of the technical processes of psychosocial study, diagnosis and casework services. Understanding the person and the dynamic relationship with his social and cultural environment. Attention to the conflicts and issues in social work practice.

Social Casework II

Continuation and deepening of understanding of the basic processes applied to casework practice in varying age groups, areas of problem and agency settings. Increasing use of students' case material. Study of the relationships among purpose, skill, social resources, social systems and human needs.

Field Instruction I and II

Application of a practicum in basic social work principles and concepts in the field setting. Field instructors carry responsibility for facilitating students' learning in relation to all areas of the curriculum. Taken collaterally with Social Casework I and II or Community Organization I and II; two days per week, first semester; two and one-half days per week, second semester.

Concepts in Research and Statistics

A seminar designed to acquaint the student with the range of decisions and techniques involved in the conduct of social research. Special attention is directed to problems of control in research design and to the problems specific to research in the field of social work.

Personality Theory

Fundamental ideas in personality theory are presented which are considered to be especially pertinent to the various practices of social workers. Presentation leans heavily upon psychoanalytic theory, but students are encouraged to study in several theories of personality of their own choosing. Emphasis is upon general principles connected with the determination of the shape and content of an individual's personal-social functioning.

Social Theory

Starting with a general consideration of theory and its relevance to practice, one section for students entering in social casework moves to concepts of culture, the family, individual socialization, small groups, formal organization and social change and the relation of the theory to casework practice. Another section for students entering in Community Organization deals with concepts of culture, group processes, bureaucracy, and social movements and social change, stressing the relation to community organization practice.

Social Welfare Policy and Services I

The organization and growth of social welfare and social work as major social institutions is examined from historical and philosophical viewpoints. The evolution of social welfare attitudes and services in Great Britain and the United States is studied with attention given to the philosophical systems within which developments have taken place. Particular attention is given to the establishment of the current social welfare system in the United States and proposals to reform or change it. The role of social work within that system is described, and its future role discussed.

Second Year of the MSS Program

The second-year options are Community Development, Social Planning, Social Service Delivery, and Social Service Management. Field Instruction III and IV are coordinated with one of these choices.

Normally, the first-year preparation for Community Development or Social Planning is Community Organization; for Social Service

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Delivery or Social Service Management the preparation is Social Casework.

Community Development (first semester)

Community Development is considered as planned intervention to increase individual influence in a highly organized society. The theme of the first semester is citizen participation in government services, such as housing, education, health, etc. The main issues of participation are explored in each area along with appropriate planning and organizing tools. International and cross cultural (including racial) aspects are given major attention, with ongoing attention to the question of revolution and/or reform.

Community Development (second semester)

In the second semester attention is turned to different settings, such as "movements" (labor unions, political movements), institutional reform and work among colleagues, caucuses (black, women's, radical) with a chance to pursue individual interests of students. Attempt will be made throughout the year for ongoing evaluation of the course content and of the class as a group involved in a common project.

Social Planning (two semesters)

This two-semester seminar examines: assumptions underlying planning in general; general principles of planning; interrelationships among auspices, funding, clientele, discipline of the planner, objectives and the planning process, strategies of implementation and evaluation, and distinctive criteria of social work planning in social welfare. Through concurrent field instruction and individual projects, students are expected to develop extensive substantive knowledge in at least one specific field, such as: aging, child welfare, corrections, education, environmental quality control, housing and renewal, income maintenance, land-use planning, mental health, mental retardation, family planning, public health, state and municipal government, or transportation.

Social Service Delivery (two semesters)

This seminar undertakes to familiarize students with theoretical and methodological issues in clinical social casework practice and associated methods of direct therapeutic intervention, such as group therapy and family therapy. Alternate means of intervention and structuring services are considered.

SOCIAL WORK AND SOCIAL RESEARCH

Social Service Management (two semesters)

Social Service Management has as its central goal the improvement of the structure and quality of social services. This emphasis in the curriculum reflects the increasing provision of direct services by other categories of social welfare personnel, including those with baccalaureate and the two-year associate training.

Social Service Management prepares students to assume responsibility for organizing and marshalling the delivery of services; analysis, evaluation, and planning of programs; training and supervision of other categories of social welfare personnel; manpower development and examination and evaluation of policies; developing and monitoring organizational structure and procedures in relation to delivery of services. The approach used is goal-oriented, and the methods employed include a variety of kinds and levels of intervention, such as need-fulfilling activities including resource development, problem-solving activities, and educational activities. Intervention may occur directly with individual clients, with groups, with organizations or indirectly through others, with emphasis on providing direction and leadership in the team delivery of services.

Field Instruction III and IV

A practicum is taken collaterally with Social Service Delivery, Social Service Management, Community Development, or Social Planning. Two or three days per week, first and second semesters.

ELECTIVES

Administrative Organization of Human Services

A seminar concerned with the structure, operation, and change of human welfare agencies. Subjects discussed include: varieties and uses of organizational structure; policy formulation; decision-making; organizational change; management functions; the role of the staff in administration; principles of personnel management; social workers' unions; and, origins, flows and uses of resources and information.

Black Family Structure, the Black Community, and Social Work

The black family is examined in terms of its own history and family interaction, not as a deviation from a norm. The course examines the history of the black family, family interaction on different socio-economic levels, and some aspects of the black community.

Child-Caring Patterns

A survey and evaluation of child-caring patterns as related to the social, economic, political and religious factors which influence them.

Community Advocacy Systems

The structure and operation of organizations working in behalf of categorical groups—race, nationality, sex, and others, such as consumer and recipient groups—are considered. Perspectives from the study of social movements and social organization are employed in analysis.

Community Mental Health

Historical and conceptual analysis of the community mental health movement. Examination of the social and political realities of community mental health planning. Consideration of principles and techniques of community psychiatry and primary prevention approaches to mental health problems. Subjects discussed include: the nature of mental health and illness; conceptual and organizational models for service delivery; manpower development; innovative approaches to service delivery; community participation and/or control issues.

Comparative Personality Theory

A post-Freudian seminar which will consider social, ego, behavioral, existential, and humanist theories of personality.

Current Issues in Corrections: Prison, Probation, Parole

Current issues and practices in the delivery of human services within adult probation, parole, institutional and ancillary agencies will be examined against society's twin aims of rehabilitation and self-protection. Visits to selected institutions and agencies in the correctional spectrum for direct exposure to such settings and discussions with their staffs may be planned.

Drugs and Drug Abuse

A general examination of the issues inherent in drugs and drug abuse, inclusive of classifications of drugs and their effects, causation theories, treatment approaches, legislation, enforcement, public education, prevention and the role of social work in all this. Current practices in treatment will be examined; treatment agencies may be visited for observation and staff discussion.

Family Therapy

The seminar includes: purposes and characteristics of family therapy in social work; family interaction patterns and system theory; dynamics, health, and maladaptations of family relationships; and basic principles and differential techniques of work with families and couples. The seminar will utilize discussion, audio-visual material, role playing, and observation, and will also give attention to the areas of student interest.

Gerontology I

Delineation of the origins and boundaries of gerontology. Cross-cultural comparison of roles and role-expectations of the aging. Physiological and psychological changes associated with aging. Reinterpretation of human productivity in the older years. Demographic characteristics of the aged population. The elderly as a political bloc.

Findings and questions of research in each of these areas are emphasized.

Gerontology II

Significant similarities and differences of the elderly, as compared with other age groups, are examined for their significance in the planning and delivery of human services, broadly defined. Guest gerontologists in the fields of housing, law, medicine, nursing-home administration, social action, and research pose and discuss current issues and trends in their respective fields.

Group Therapy

This seminar is designed to give the student a foundation in the field of group psychotherapy. It is structured so that the student participates in group interaction similar to that occurring in therapy groups and correlates this experience with group theory. Video-tapes of clinical groups are utilized as is video playback of a seminar meeting.

Human Behavior: Childhood and Adolescence

Behavior is examined from a socio-psychological perspective, integrating a variety of theoretical approaches with related research results.

Law as an Instrument of Social Change

This course is devoted to understanding how legal institutions can be better used to help solve major social problems of the day.

Illustrative cases to be drawn from recent efforts to make public and private organizations more responsive to such problems as alleviating poverty, racial discrimination, consumer fraud, fair treatment of both accused and the general populace in crime prevention, etc. Students are expected to draw upon their particular agency placements in choosing topics for class presentations and papers.

Marriage Counseling

This seminar will examine theories of marital interaction, theories of therapy, and value systems of the marital counselor. Specific foci will be chosen by participants who will carry responsibility for presentation of materials and class discussion.

The Ombudsman and Other Client Advocacy Systems

A review of institutional arrangements for communication, redress, and advocacy for citizens in their dealings with various levels of government. Development and application of a classification scheme for such organizations and consideration of such models as the classical ombudsman and the decentralized agency. Comparative material from various American schemes and such foreign experience as that in Scandinavia, Great Britain and New Zealand.

Personality and Comparative Politics

This seminar is intended to explore selected aspects of personality theory relevant to politics in the context of comparative political cultures. Ways in which personality theory and political theory interrelate will be examined. Offered jointly to students in the Department of Political Science of The Graduate School of Arts and Sciences and students in The School of Social Work and Social Research.

Political and Governmental Processes

Concerned with the study of the process of making authoritative decisions about the allocation of values for a society or social group, this course explores concepts and issues that the student must deal with in working with groups that seek to influence decision-making. An interdisciplinary approach is provided in the readings and discussions with integration of material from Sociology, Social Psychology and Economics as well as Political Science. The students participate in structuring the content and procedure of the seminar.

Population Dynamics and Planned Parenthood

A review of present theories concerning human sexuality and the effects of increasing population on the quality of human life. An exploration through readings and field trips of the current programs

which attempt to control human fertility along with an examination of religious, ethical, cultural, medical and legal issues which limit the availability or usefulness of existing programs.

Poverty, Inequality, and Social Policy

The effects of poverty and inequality on personal, familial, and political processes are explored. Design of human service delivery systems to overcome inequities and improve the quality of human life is a major seminar goal.

Psychopathology

This course covers the symptomatic pictures seen in adults in the major clinical diagnoses of the psychoses, psychosomatic disorders, character disorders, addictions and the neuroses. There will be examination of the genetic, dynamic and structural aspects of these illnesses, with discussion of implications for prevention and treatment.

Race, Poverty, and Human Development

Certain developmental personality theories are examined in relation to the effect of various racial and socio-economic environments on human development. The course has a dual orientation in which the theoretical material is applied to practical situations.

Racism—Institutional and Personal

A seminar jointly developed by students and faculty concerned with the present situation vis-à-vis racism as a day-to-day phenomenon in social welfare, among social workers, and in the community. Attention will be given to concepts of race, ethnicity, caste and class, and to racial relations history in the United States since 1940.

Research Seminars

A seminar in social research for students who wish to proceed beyond the initial course, *Concepts in Research and Statistics*. These seminars provide an opportunity for a small group of interested students to participate in greater detail in a study of some aspect of social work.

Selected Concepts in Personality Theory

This seminar is built upon concepts that are thought to be fundamental to clinical practice and social action at the same time. Critical analysis is made of recent interpretations of such concepts developed by the instructor.

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Social Welfare Policy and Services II

The nature and scope of contemporary social problems such as poverty, illness, old age, delinquency, and urban deterioration are analyzed. Various proposals and approaches to meeting these problems are considered. Programs developed in other countries receive particular attention.

Special Problems of Women

A student-faculty seminar which will consider issues concerned with women historically and cross-culturally, including the contemporary Women's Liberation Movement. Special attention will be given to women in the social work profession. Specific content and structure to be developed by the group.

Staff Supervision in Social Service

This seminar is designed for those Master's students who will be expected to assume supervisory and/or staff development responsibilities. The seminar takes its direction from the function of supervision which is seen as primarily twofold: 1) the provision of more effective delivery of service to the consumer; and 2) the education and professional development of staff.

Strategies for Social Change

A student-faculty seminar designed to examine alternative methods for social change. Emphasis will be on strategies which have come into new prominence in the black community. The seminar will undertake to analyze the assumptions, techniques, and results of these strategies. Students who enroll meet with the faculty coordinator before the beginning of the semester in order to designate specific topics of interest and recommend outside speakers who can present a variety of approaches within the focus of this seminar. Students carry responsibility to prepare annotated readings, conduct discussions, and prepare a final paper analyzing the elements of strategy related to practice explored in the seminar.

MASTER'S PAPER

A Master's Paper is required of all candidates for the M.S.S. degree. This may be an individual or group project.

PRACTICUM

Field instruction in relation to a practicum is an integral part of the curriculum for the Master of Social Service degree. A placement is arranged for each student: in the first year in Social Case-work or Community Organization, in the second year in Social Service Delivery, Social Service Management, Community Development, or Social Planning. The purpose of the practicum is to provide the opportunity for the student to apply theory in order to deepen knowledge and develop skill in its use. Students' assignments are planned to give content, sequence, and progression in learning. Field instruction runs concurrently with the academic program in order to maximize opportunity for the student to integrate the content of the two. Each student's field instruction is arranged in a different setting for each year of the practicum.

In a typical program, the practicum for first-year students consists of two days per week in the first semester (Thursday and Friday) and two and one-half days per week in the second semester (Monday afternoon, Thursday, and Friday); for second-year students, it normally consists of three days per week for each of the two semesters (Monday, Thursday, and Friday). Individual arrangements may occasionally be made on the basis of agency and student needs.

Most students are placed in a number of agencies in the Philadelphia metropolitan area. Placements are made regularly, however, in Harrisburg, in the State of Delaware, and in the national capital 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 who is a member of the faculty of The Graduate School of Social Work and Social Research. The practicum for M.S.S. students has been provided in field placements concerned with, among others:

Child and Family Welfare

Community Mental Health

Corrections

Gerontology

Health

Intergroup Relations

Legal Services

Mental Retardation

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Narcotics Addiction and Drug Abuse

Neighborhood Organization

Public Education

Public Welfare Administration

Social Planning

Social Rehabilitation

Social Welfare Research

Urban Renewal

FIELD INSTRUCTION SETTINGS

Students were placed during 1971-72 in the following agencies and organizations:

Afro-American Foundation

Albert Einstein Medical Center

Association for Jewish Children

Centennial School District, Warminster, Pennsylvania

Child Care Service of Delaware County

Children's Aid Society of Pennsylvania, Philadelphia

Child Study Institute of Bryn Mawr College

Community Legal Services, Inc., Philadelphia

Compcare, Inc.

Defender Association, Philadelphia

Delaware County Juvenile Court

Delaware County Legal Assistance Association, Inc.

Delaware Governor's Office

Eagleville Hospital and Rehabilitation Center, Community Services
Division

Eastern Pennsylvania Psychiatric Institute

Episcopal Hospital Community Mental Health Center

Family Service of Delaware County

Family Service of Montgomery County

SOCIAL WORK AND SOCIAL RESEARCH

Family Service of Philadelphia

The Glen Mills School

Hahnemann Medical College and Hospital

Hahnemann Medical College and Hospital Community Mental
Health Center

Health and Welfare Council, Inc., Philadelphia

Irving Schwartz Institute for Children and Youth

Metropolitan Associates of Philadelphia

Montgomery County Board of Assistance

Montgomery County Mental Health Clinics, Inc.

Montgomery County Public Schools

New Jersey Division of Corrections and Parole

Northeast Community Mental Health Center, Philadelphia

North Light Boys' Club

Pennsylvania Association for Retarded Children

Pennsylvania Board of Probation and Parole

Pennsylvania Department of Public Welfare

Pennsylvania Office of the Insurance Commissioner

Pennsylvania Youth Development Center

Pennsylvania Hospital Community Mental Health Center

The People's Fund

Philadelphia Court of Common Pleas

Philadelphia Department of Public Health

The Philadelphia Forum of Mental Health/Mental Retardation
Centers

Philadelphia Geriatric Center

Philadelphia Housing Development Corporation

Philadelphia Psychiatric Center, Community Mental Health Center

Planned Parenthood Association

Regional Comprehensive Health Planning Agency, Inc.

Saint Christopher's Hospital for Children

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Stephen Smith Home for the Aged

Thomas Jefferson University Medical Center

Thomas Jefferson University Medical Center, Community Mental
Health Center

Union Church Non-Profit Housing and Development Corporation

United States Department of Health, Education, and Welfare
Social and Rehabilitation Service, Region III

United States Department of Housing and Urban Development

United States Office of Economic Opportunity

United States Veterans' Administration Hospital

West Philadelphia Community Mental Health Consortium

Wharton Center

Wynnefield Residents Association

Graduate Program for the Doctor of Philosophy

Consistent with the School's philosophy with respect to advanced study, the program is planned to broaden the student's knowledge of social welfare in general and, through intensive study and research, to deepen his knowledge in one area in particular. The curriculum includes seminars, tutorials, and independent study in the following areas:

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

Candidates who hold the M.S.S. degree from The Graduate School of Social Work and Social Research of Bryn Mawr College must complete one year of full-time doctoral study at Bryn Mawr. Candidates who do not hold the M.S.S. from The Graduate School of Social Work and Social Research at Bryn Mawr College must complete two years of full-time doctoral study at Bryn Mawr. The residence requirements may be relaxed in individual cases.

In general, twelve semester courses, not counting the dissertation, must be completed in preparation for the degree. In addition, the candidate is expected to complete at least two semester courses devoted to dissertation research.

The following courses are required:

- Social Statistics I—one semester
- Research—one semester
- Social and/or Behavioral Sciences—two semesters
- History and Philosophy of Social Welfare I—one semester
- Theory in Social Work Practice—one semester

Beyond the required seminars doctoral students may elect courses in this School, The Graduate School of Arts and Sciences at Bryn Mawr, or The Graduate School of Arts and Sciences at the University of Pennsylvania under the reciprocal plan.

Social Welfare

History and Philosophy of Social Welfare I

In this course social welfare is examined as a historical institution. The development of the succession of philosophical systems

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within which this institution evolved is considered and the influence upon both philosophy and welfare of social and economic changes is studied. Stress is placed upon historical and contemporary literature which is examined for the light it casts upon our field of study.

History and Philosophy of Social Welfare II

The emphasis in this course is upon the newer historical research and the literature flowing from it. The origins of current philosophies of social welfare are explored; students learn through use some of the tools of historical research and their value in assessing developments in social welfare and social work.

Introduction to Social Policy

This course will examine different concepts of social policy but will give special attention to issues of distribution and redistribution. These issues will be examined in a number of different fields, such as: income transfers, medical care, social services, manpower training, education and housing. After reviewing each of these sectors, an attempt at an overall assessment of the relationship between social policy and income distribution will be made based on empirical studies in the United States and selected advanced industrial societies in Western Europe. In addition to a review of issues of distribution, attention will be given to problems of citizen participation, coordination, evaluation and social change. The course will conclude with an interpretation of the limits and the future of social policy. (Not offered in 1972-73.)

Personality Issues in Social Policies and Programs

A seminar concerned with the cluster of issues which surrounds the relationship between personality and policy: the assumptions about personality functioning in social policies; the impact of public social policy on personality; the impact of personality factors on policies; personalities in policy-making positions; personality theories as origins for the development of social policy; social equality and personality.

Social Service Delivery Systems

Drawing on literature from a number of European countries and the United States a systematic reappraisal of the personal social

services is undertaken. The basic content of the course is devoted to a review of the following questions: What are social services? What are their multiple aims and are these aims in conflict? How should these services, with vague boundaries and uncertain aims, be administered? How should they be financed? How effective are they? What priority should they enjoy within the broader system of social welfare services? What place does social work play within these services? What images for the future of the social services can be projected? This seminar concludes with an appraisal of future trends. (Not offered in 1972-73.)

Social and Behavioral Sciences

Advanced Psychoanalytic Theory

Examination is made of psychoanalysis as a personality theory. Special attention is paid to metapsychology in psychoanalytic theory and to psychoanalysis as social theory. Intensive analysis of basic writings by Freud and his collaborators forms the focus of the seminar.

Formal Organizations

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.

Personality Theory

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.

Social Change

This seminar engages in an active search for an adequate abstract model of social change. Special attention is directed to modern systems theory. Major social theories are examined for relevant contributions to an understanding of social change; contemporary

patterns of change in society are documented; and limitations in attempts to guide change at different levels of social organization are noted.

Social Demography

Demographic characteristics of the United States and appropriate techniques of 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.

Theory in Social Work Practice

Advanced Casework (one or two semesters)

This course is designed to examine the scientific base of social casework. Assumptions are viewed against current knowledge in personal, biological and social theories; gaps in knowledge; and building of theory. There also is discussion of implications for practice of theoretical advances, and the influence of values in planning for social welfare.

Advanced Planning

This seminar examines the origins, trends and issues of social planning with particular emphasis on social planning by social workers. Current literature is critically reviewed. Efforts are made to develop a general theory of planning as a basis for research and practice.

Social Administration

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. (Not offered in 1972-73.)

Social Research

Social Statistics I

Descriptive and inferential statistics are presented with major emphasis on partial and multiple correlation and regression and analysis of variance. Understanding of the assumptions and conditions under which statistical operations are meaningful and discrimination in the application and interpretation of statistical tests are developed. Problems are executed on a modern computer.

This course meets the statistics requirement for the Ph.D. degree.

Social Statistics II

Intensive study of statistical techniques and issues of current interest in social research is accompanied by application of one of these techniques in an original quantitative analysis. Among the major topics are factor analysis, path analysis, mathematical models, and the significance test controversy.

Advanced Research

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.

Current Research in Social Work and Social Welfare

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

Tutorial in Research

Students may arrange with members of the faculty to undertake research in an area of their interest under faculty supervision.

Other Courses

Courses in the Bryn Mawr Graduate School of Arts and Sciences may be elected as part of the student's program with the permission of the Dean of The Graduate School of Social Work and Social Research and the Instructor of the course to be taken.

Graduate courses in the Graduate School of Arts and Sciences of the University of Pennsylvania are also available for doctoral students of Bryn Mawr College. For information regarding the reciprocal arrangement with the University, see the section under Admissions.

Fees

Application: \$15 (non-refundable).

Tuition

Full-time Students: \$2400 a year (1972-73.)*

Part-time Students: \$400 a semester for each course or seminar.

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

Students enrolled in the practicum are charged a fee of \$20 a semester. In addition, students are required to meet traveling and other expenses incurred in relation to the practicum.

Continuing enrollment for Ph.D. candidates: Candidates who have completed the required academic courses including two tutorials in dissertation research and who are continuing independent work on their dissertations either in the vicinity of Bryn Mawr or in other places must retain their enrollment and degree candidacy by registering for one or more courses each semester or by paying a continuing enrollment fee of \$75 each semester.

Students who wish to present themselves for examinations must be enrolled.

Doctoral students who are not working on dissertations and not consulting with the faculty or using the library may apply to the Dean of The Graduate School of Social Work and Social Research for a leave of absence for one or more semesters. No fee is required while on leave of absence.

Payment of Fees

No reduction or refund of the tuition fee will be made on account of absence, illness or withdrawal after classes have begun, dismissal or for any other reason, except involuntary service in the armed forces of the United States.

Students whose fees are not paid before October 1 in the first semester and before February 15 in the second semester will not be permitted to continue in residence or to attend classes. Degrees will not be awarded to any student owing money to the College or any College facility.

* Faced with the rising costs of higher education, the College has had to raise tuition each of the last two years. Further increases may be expected.

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Summary of Expenses for the Academic Year
1972-73

Regular

Tuition Fee	\$2400
Residence in graduate student housing	1400

Contingent

Application Fee	\$ 15
Charge for microfilming Ph.D. Dissertation	30
Continuing Enrollment Fee	150
Dispensary Fee	25
Graduation Fee for all Graduate Degrees	25
Health Insurance (United States Citizens)	40
Health Insurance (foreign students)	70
Late Registration Fee	10
Materials Fee	10
Practicum Fee	40

History of the School

The Graduate School of Social Work and Social Research was opened at Bryn Mawr College in the fall of 1915 as the Carola Woerishoffer Graduate Department of Social Economy and Social Research. It was established as a tribute to Carola Woerishoffer, a Bryn Mawr graduate of the class of 1907, and was the first graduate program of social work education to be offered by a college or university. Subsequently the name was modified from Social Economy and Social Research to Social Work and Social Research. In August 1970, it became one of the three Schools which comprise Bryn Mawr College.

The School 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 "field work" in a social service institution or 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. Its plan of "field work" and its inclusion of work in labor and industrial relations and in community organization made it somewhat different from the other early schools of social work. Under its first director, Dr. Susan M. Kingsbury, four fields of study were offered: Community Organization, Social Casework, Industrial Relations, and Social and Industrial Investigation. Included among the organizations offering field work for students in these early days were: The Family Society of Philadelphia, The Children's Aid Society, 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 social settlements.

In 1919, Bryn Mawr 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 responded to these changes in a variety of ways. At Bryn Mawr, preparation for social casework was expanded and additional courses in public welfare and social legislation were offered. However, the emphasis on research and social investigation which was central to the early curriculum of the School continued.

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Bryn Mawr had the first doctoral program in social work education and awarded the first Ph.D. in 1920. The doctoral program at the School of Social Service Administration at the University of Chicago followed later in the 1920s. Today twenty-five schools in the United States and Canada offer doctoral programs.

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

The Graduate School of Social Work and Social Research currently has approximately one hundred thirty full-time students. A number of factors have contributed to this expansion: the acquisition in 1958 of a separate building for the exclusive use of the School; increased Federal support for education for social work, especially scholarship aid in the form of traineeships; and the continuing support of social welfare agencies and organizations for a practicum.

There are more than eighty graduate schools of social work accredited by the Council on Social Work Education in the United States and Canada, 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 School at its founding has been proven by experience to have been remarkably correct.

The School now has approximately 750 living graduates. Since its inception it has granted awards to more than 1,000 persons; this includes awards of professional certificates and M.A.s, both of which have not been offered since 1947. The School has granted 51 Ph.D.s and, since 1947, more than 700 M.S.S. degrees.

At the time of its founding, the School admitted only women; since the late 1930s both men and women have been admitted and during the last ten years men have constituted an increasing percentage of the graduates.

Graduates of the School are located in all regions of the United States and many foreign countries. Their present positions range within a wide spectrum of governmental and voluntary organizations and agencies. They are widely represented in child and family welfare, community mental health, corrections, gerontology, health, intergroup relations, legal services, mental retardation, narcotics addiction and drug abuse, neighborhood organization, public educa-

SOCIAL WORK AND SOCIAL RESEARCH

tion, public welfare administration, social planning, social rehabilitation, social welfare research, and urban renewal. Approximately half are executives, supervisors or administrators, or consultants. Recipients of the doctoral degree are chiefly in teaching and research positions. Over the course of its more than fifty-five years, the School's graduates have contributed substantially to leadership in both public and voluntary social welfare.

Graduate Student Housing

Housing on campus is provided for about sixty-five graduate students in the Graduate Residence Center, Batten House, and the Annex. There is a separate bedroom for each student. A few double rooms in Batten House can accommodate married couples without children, provided both are graduate students at Bryn Mawr. No other housing on campus is available for married students. Rooms are furnished except for rugs and curtains. Blankets are provided but students should bring towels and bed linen. (Local rental services will supply sheets and pillowcases for a modest fee. Arrangements can be made on arrival.) Private telephones cannot be installed in campus housing. Because of College fire regulations, smoking is not permitted in the bedrooms. There are smokers on certain floors. The dining room, available to all resident students, is located in the Center.

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 to the Office of The Graduate School of Arts and Sciences with a deposit of ten dollars. The deposit will be deducted from the residence fee; it will be refunded only if the student cannot be accommodated or has been called into service in the armed forces of the United States.

A student who has reserved a room will be held responsible for the residence charge unless notice of withdrawal is sent in writing to the Dean of The Graduate School of Arts and Sciences before August 15, or unless he is drafted for military service.

The regular charge for residence (room, board and health service) for graduate students is \$1400 a year, payable one half early in the first semester and the other half early in the second. Residence on campus is provided from the opening of College in the fall until Commencement Day; but meals are not served, and health service is not available during Christmas and spring vacations. Baggage will be accepted at the College after August 30. It should be sent prepaid, addressed to the proper residence hall, and marked with the owner's name.

The College does not maintain a housing bureau. Students may consult the Graduate Student Off-Campus Housing Information Service in Room 4, Thomas Library, between 9 a.m. and 1 p.m.

Health

Medical Services

The College maintains an 18-bed infirmary with a staff of physicians and nurses. The Infirmary is open when College is in session. The college physicians may be consulted without charge by students residing in campus housing and by students living off campus 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 residence charge paid by graduate students living in campus housing entitles them 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 the 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 \$15.00 for each day in the Infirmary. In case of contagious disease, if special nursing is necessary, the student must meet the expense.

Graduate students who do not live in campus housing may pay a \$25.00 fee which entitles them to dispensary care and consultation with the college physicians. The fee is not billed automatically and is not covered by scholarship or other grants. The dispensary fee is to be paid in the Comptroller's Office where a dispensary card is issued.

The College maintains a counseling and diagnostic service staffed by a social worker, psychologist and three psychiatrists. They are at the Infirmary on a part-time basis. All students eligible for dispensary care may use this service. The counseling service offers confidential consultation and discussion of personal and emotional problems. Definitive and long range psychotherapy is not available. A charge is made for visits in excess of five.

Medical Requirements

All graduate students, after admission, must file a medical history and health evaluation form with the Infirmary. There are no exceptions to this rule.

In addition to a statement of health, signed by a physician, the following are required: small pox vaccination within 3 years of admission; current tetanus and polio immunizations; proof of free-

BRYN MAWR COLLEGE

dom from active tuberculosis, based on either a negative skin test to tuberculosis, or in the presence of a positive test, a normal chest x-ray within 6 months of admission. No one will be permitted to register who has not completed these requirements.

Insurance

All graduate students of Bryn Mawr College are entitled to subscribe to the Student's Health Care Plan, which provides for a substantial proportion of hospital care and medical fees. The premium for this insurance is \$40.00 for a full year starting in September. Students should apply to the Comptroller of the College.

Foreign Students. The College also makes available a policy which provides fuller coverage of medical, surgical, and hospital costs. This insurance is required of all 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 \$70.00 for a twelve-month period, starting in September.

Student and Alumni Associations

Student Association of The Graduate School of Social Work and Social Research

All students in The Graduate School of Social Work and Social Research are eligible for membership in the Student Association. The Student Association and Faculty work together to promote the objectives of the School.

Alumni Association of The Graduate School of Social Work and Social Research

The Alumni Association of the School was organized to further the interests of the School and its alumni. This Association is part of the larger Alumnae Association of Bryn Mawr College. The Planning Committee of the Alumni Association is comprised of the following:

William Krum—*Co-Chairman*

Ruth W. Mayden—*Co-Chairman*

Jacob Armstrong

Mary Q. Frantz

John Loeb

J. Douglas MacBride

Alexander Scott

Malin VanAntwerp

Recruitment of Minority Group Students

A Student-Faculty-Alumni Committee is active in recruitment of interested and qualified minority group students.

The Graduate School of Social Work and Social Research is especially interested in having minority group students explore graduate social work education at Bryn Mawr. Inquiries may be directed to the Office of Admissions, 815 New Gulph Road, Bryn Mawr 19010.

College Facilities

Student-Faculty Lounge

There is a Student-Faculty Lounge at The Graduate School of Social Work and Social Research for the use of Social Work faculty and students.

Parking

Parking for Social Work students is available in the Erdman-College Inn parking lot with entrance on Morris Avenue. No parking by students is permitted at other places on the campus. All parking spaces at 815 New Gulph Road (The Graduate School of Social Work and Social Research) are assigned from 8 a.m. to 5 p.m.

Mailboxes

There are student mailboxes at The Graduate School of Social Work and Social Research. Mail addressed to students in the School should include 815 New Gulph Road, Bryn Mawr, Pennsylvania 19010.

Wyndham

Wyndham is the College Alumnae House with the headquarters of the Bryn Mawr College Alumnae Association. Graduate students are invited to use the dining and other facilities.

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James Wood

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Clarissa Wardwell Pell

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Emily Townsend Vermeule

Alumnae Director 1968-1973

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Alumnae Director 1970-1975

Judith Zinsser Lippmann

Alumnae Director 1971-1976

Martha Bridge Denckla

Alumnae Director 1972-1977

Barbara Bradfield Taft

Alumnae Director 1972-1978

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Nina Montgomery Dana

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- Ramona L. Livingston AB (William Jewell College) *Advisor to For-
eign Students and Lecturer in English*
- Margaret G. McKenna A B (Bryn Mawr College) *Personnel Admin-
istrator*
- Samuel J. McNamee B S (Temple University) *Assistant Comptroller*

¹ On leave, 1972-73.

² On leave, Semester II, 1972-73.

SOCIAL WORK AND SOCIAL RESEARCH

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Julie E. Painter A B (Bryn Mawr College) *Administrator of Records and Financial Aid*

Robb N. Russell M S (University of Illinois) *Director of Computer Services*

Martha Stokes Price A B (Bryn Mawr College) *Director of Resources*

Thomas N. Trucks B S (Villanova University) *Superintendent of Buildings and Grounds*

Sarah E. Wright *Director of Halls*

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The Graduate School of
Social Work and Social Research

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Mr Milton Speizman

Alumni Members:

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Mr Jacob Armstrong

Student Members:

Mrs Faith Diaz

Mr Stephen Holden

Ex Officio:

Mr Harris L Wofford Jr

Mr Bernard Ross

Mrs John S Price

Faculty of The Graduate School of Social Work and Social Research for the Academic Year 1972-73

- M. Leslie Alexander MSS (Bryn Mawr College) *Lecturer*
- Joyce O. Beckett MSS (Bryn Mawr College) *Lecturer*
- Charles C. Bray PH D (University of Pittsburgh) *Associate Professor*
- Merle Broberg PH D (The American University) *Assistant Dean of
The Graduate School of Social Work and Social Research and
Associate Professor*¹
- Madeleine R. Cushman MSS (Bryn Mawr College) *Field Instruc-
tion Consultant and Chairman of Admissions*
- David L. Elder MA (Oberlin College) *Lecturer*
- Samuel Gubins PH D (The Johns Hopkins University) *Visiting Lec-
turer*
- Jean Haring DSW (Western Reserve University) *Associate Professor*
- Stephen Holden MSS (Bryn Mawr College) *Lecturer*
- Sally E. Hollingsworth MSS (Bryn Mawr College) *Assistant Profes-
sor and Coordinator of Field Instruction*
- Isaac C. Hunt LL B (University of Virginia) *Visiting Lecturer*
- Arthur C. Huntley MD (Jefferson Medical College) *Visiting Lecturer*
- Hobart C. Jackson MSS (Bryn Mawr College) *Lecturer*
- Jane C. Kronick PH D (Yale University) *Associate Professor and
Secretary of the Faculty of Social Work and Social Research*
- Joyce Lewis MSS (Bryn Mawr College) *Assistant Professor*
- Philip Lichtenberg PH D (Western Reserve University) *Professor*
- Katherine D. K. Lower PH D (University of Wisconsin) *Professor
Emeritus*
- Dolores Norton PH D (Bryn Mawr College) *Associate Professor*
- Jeanne C. Pollock MSW (University of Pennsylvania) *Associate
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- Elizabeth G. Preston MSS (Bryn Mawr College) *Lecturer*
- Julia B. Rauch MSW (University of Pennsylvania) *Lecturer*
- Martin Rein PH D (Brandeis University) *Visiting Professor*²
- Lawrence S. Root MSS (Bryn Mawr College) *Field Instruction Con-
sultant*

BRYN MAWR COLLEGE

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Louis Schneiderman MSSW (Columbia University) *Assistant Professor*

Milton D. Speizman PH D (Tulane University) *Professor*

Ruth O. Stallfort MSS (Simmons College), Third-Year Certificate (Columbia University) *Associate Professor*

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Merilyn B. Woods PH D (Bryn Mawr College) *Assistant Professor*

Franklin M. Zweig PH D (Brandeis University) *Visiting Lecturer*

Greta Zybon DSW (Western Reserve University) *Associate Professor*¹

¹ On leave Semester II, 1972-73.

² On leave Semester I, 1972-73.

Administration of The Graduate School of Social Work and Social Research

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Mabel G. Wells MSW (Howard University) *Admissions Associate*

Grace M. Irish AB (Vassar College) *Administrative Assistant*

Standing Committees of the Faculty
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and Social Research for 1972-73

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Mr Vosburgh 1971-74
Miss Lewis 1972-75

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Mr Lichtenberg 1970-73
Mrs Norton 1971-74
Miss Haring 1972-75

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Mrs Hollingsworth *ex officio*
Mrs Cushman *ex officio*
Miss Beckett 1972-74
Mr Speizman 1972-74

Committee on Master's Curriculum

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Mr Vosburgh 1971-73
Mrs Preston 1971-73
Miss Lewis 1972-74
Mrs Stallfort 1972-74

*Committee on Evaluation of
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Mrs Preston 1972-73
Mr Schneiderman 1972-73

*Committee on Field Instruc-
tion and Placement*

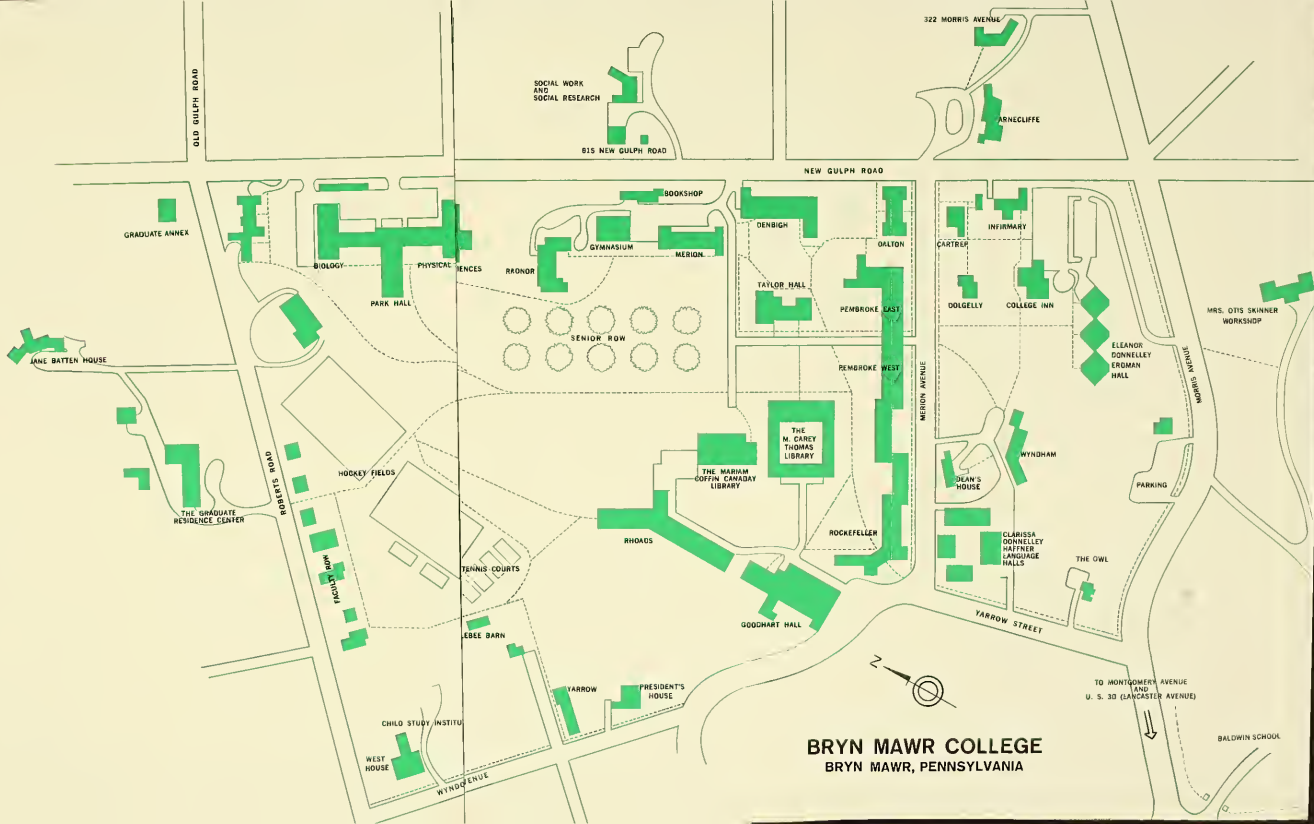
Mrs Hollingsworth *Chairman*
Mr Broberg *Vice Chairman*
Dean Ross *ex officio*
Miss Lewis 1971-73
Miss Zybon 1972-74

*Committee on Initial Appoint-
ments to the Faculty*

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Mr Lichtenberg 1972-73
Mr Speizman 1972-73
Mrs Preston 1972-73
2 Master's Students
1 Ph D Student

Doctoral Committee

Mr. Lichtenberg *Chairman*
Dean Ross *ex officio*
Mr Bray
Mr Broberg
Miss Haring
Mrs Kronick
Mrs Norton
Mr Speizman
Mr Vosburgh
Mrs Woods
Mr Zweig
Miss Zybon
and
All students enrolled in the
Doctoral Program



BRYN MAWR COLLEGE
BRYN MAWR, PENNSYLVANIA

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 30th Street Station in Philadelphia and from there the Paoli Local to Bryn Mawr, or take a taxi or the Bennett Limousine Service 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 exit number 36, Pa. #320, Gulph Mills, which is 3.5 miles east of the toll gate; continue into 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.

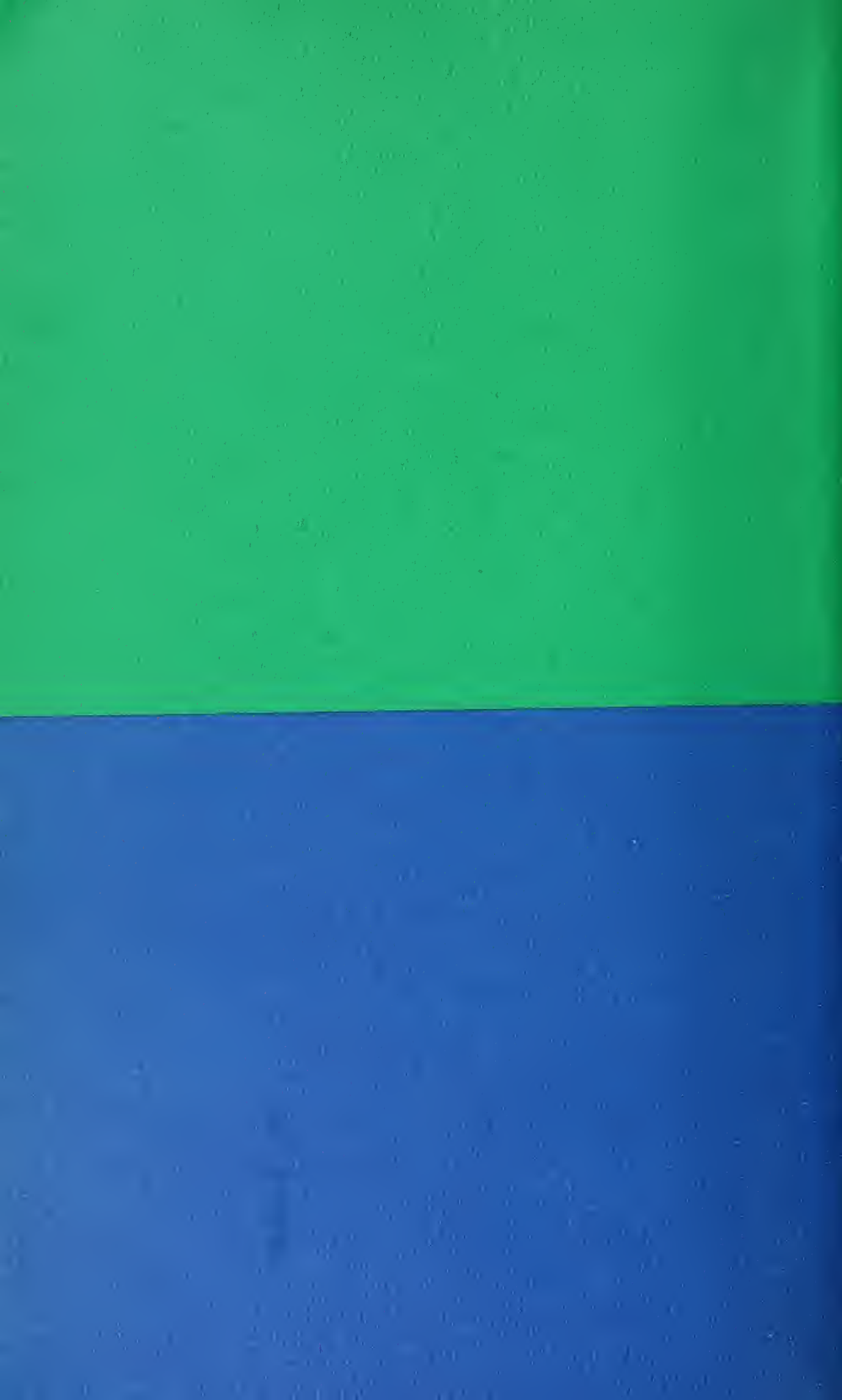
Visitors may use the College parking lot, entering at Merion Gate, which is directly opposite 815 New Gulph Road.

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 Penn Central 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

The Graduate School
of Arts & Sciences

1972-73

Bryn Mawr College Calendar
The Graduate School
of Arts and Sciences

Issue for the Session of 1972-73

July 1972 *Volume LXV Number 2*

BRYN MAWR COLLEGE CALENDAR published December, July, August
and September by Bryn Mawr College, Bryn Mawr, Pennsylvania 19010
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Graduate Work at Bryn Mawr

Graduate education at Bryn Mawr is built upon a close working relationship between students and mature scholars. Each student begins training on the level appropriate for his individual experience, and pursues a flexible program designed for his special requirements. Small seminars provide an opportunity to share research projects and to work under the direct supervision of the faculty.

Founded in 1885, the Bryn Mawr Graduate School was the first graduate school for women in the United States. Since 1931 both men and women have been admitted; but only after 1965 were adequate funds obtained to offer support for men comparable to that offered to women. Always small in relation to other graduate schools, Bryn Mawr has expanded gradually in response to the need for men and women well prepared for teaching and research. In 1970, the Graduate School of Arts and Sciences and the Graduate School of Social Work and Social Research were organized as two distinct schools. Today, the student enrollment in the Graduate School of Arts and Sciences is about four hundred and fifty.

Graduate work leading to the degrees of Master of Arts and Doctor of Philosophy is available in:

<i>Anthropology</i>	<i>History of Art</i>
<i>Biochemistry</i>	<i>Latin</i>
<i>Biology</i>	<i>Mathematics</i>
<i>Chemistry</i>	<i>Mediaeval Studies</i>
<i>Classical and Near Eastern Archaeology</i>	<i>Music</i>
<i>Economics</i>	<i>Philosophy</i>
<i>Education and Child Development</i>	<i>Physics</i>
<i>English</i>	<i>Political Science</i>
<i>French</i>	<i>Psychology</i>
<i>Geology</i>	<i>Russian</i>
<i>German</i>	<i>Sociology</i>
<i>Greek</i>	<i>Spanish</i>
<i>History</i>	
<i>History and Philosophy of Science</i>	

Work leading to the degrees of Master of Social Service and Doctor of Philosophy is available in the Graduate School of Social Work and Social Research.

College Calendar 1972-73

The Graduate School of Arts and Sciences

First Semester

1972

- Aug. 20 *Final date for filing completed applications for admission for 1972-73.*
- Sept. 1 *Applications for loans due.*
- Aug. 31, Sept. 1, 5-8, 11, 12 *Registration Period for Semester I.*
- Sept. 5 *Graduate residences open.*
- Sept. 7 *Convocation.*
Work of the 88th academic year begins at 9 a.m.
- Oct. 7 *Italian, Spanish, Russian, Latin, statistics examinations for M.A. and Ph.D. candidates.*
- Oct. 20 *Fall vacation begins after last seminar.*
- Oct. 25 *Fall vacation ends at 9 a.m.*
- Oct. 28 *French examinations for M.A. and Ph.D. candidates.*
- Nov. 4 *German examinations for M.A. and Ph.D. candidates.*
- Nov. 22 *Thanksgiving holiday begins after last seminar.*
- Nov. 27 *Thanksgiving holiday ends at 9 a.m.*
- Dec. 8-20 *Registration Period for Semester II.*
- Dec. 18 *Final date for filing completed applications for admission for Semester II.*
- Dec. 20 *Winter vacation begins.*

Second Semester

1973

- Jan. 15 *Convocation.
Work of the Second Semester begins at 9 a.m.*
- Jan. 22 *Applications for M.A. candidacy due in the Office of
the Graduate School of Arts and Sciences.*
- Jan. 25 *Final date for filing completed applications for scholar-
ships (foreign students) for 1973-74.*
- Feb. 1 *Final date for filing completed applications for fellow-
ships, scholarships, and grants (citizens of the United
States and Canada) for 1973-74.*
- Feb. 17 *Italian, Spanish, Russian, Latin, statistics examinations
for M.A. and Ph.D. candidates.*
- Feb. 24 *French examinations for M.A. and Ph.D. candidates.*
- Mar. 3 *German examinations for M.A. and Ph.D. candidates.*
- Mar. 9 *Spring vacation begins after last seminar.*
- Mar. 19 *Spring vacation ends at 9 a.m.*
- Mar. 28 *Ph.D. dissertations in all fields except natural sciences
and mathematics must be submitted to the Office of
the Graduate School of Arts and Sciences.*
- Apr. 1 *Applications for loans due.*
- Apr. 2-9 *Spring Registration Period for Semester I, 1973-74.*
- Apr. 14 *M.A. papers due for candidates away from Bryn Mawr.*
- Apr. 18 *Ph.D. dissertations in the natural sciences and mathe-
matics must be submitted to the Office of the Grad-
uate School of Arts and Sciences.*
- Apr. 27 *Last day of seminars.*
- May 14 *Conferring of degrees and close of 88th academic year.
Graduate residences close.*

Admission to the Graduate School of Arts and Sciences

Requirements

Students must be graduates of colleges or universities of acknowledged standing. For special requirements set by individual departments, see the departmental listings beginning on page 16.

Procedure

The applicant should write to the Dean of the Graduate School of Arts and Sciences, Bryn Mawr College, Bryn Mawr, Pennsylvania 19010, for application forms and indicate the field of special interest. The application must be supported by official transcripts of the student's complete academic record and by letters from the dean and two or more professors with whom he has done his major work. Although an interview is not required, candidates who wish to come in person to discuss their plans or the Bryn Mawr program are welcome. The applicant should write directly to the chairman of the department to arrange a meeting. No application can be considered until all the necessary documents have been received. Students are accepted for either full-time or part-time work. For citizens of the United States and Canada and foreign students living in the United States, there is an application fee of \$15.00, which is not refundable.

Graduate Record Examinations and Graduate School Foreign Language Tests

Applicants are advised to take the Graduate Record Examination Aptitude Test as well as the Advanced Test in their fields of special interest. In certain departments these examinations are required, as indicated in the departmental listings. Inquiries concerning the Graduate Record Examination should be addressed to Graduate Record Examination, Educational Testing Service, Box 955, Princeton, New Jersey 08540 or to the Graduate Record Examination, Educational Testing Service, 1947 Center Street, Berkeley, California 94704.

Satisfactory scores in the Graduate School Foreign Language Test are accepted by some departments in fulfillment of the language requirement for higher degrees. Students should consult the departmental listings and make their own arrangements to take

these tests by writing to the Educational Testing Service. Applicants are encouraged to take the test within one year prior to the date they wish to enter.

Dates

1. *Citizens of the United States and Canada:*

Applications for admission must be complete by August 20. Graduate Record Examinations: October 28, December 9, 1972; January 20, February 24, April 28, and June 16, 1973. Graduate School Foreign Language Tests: July 22 and October 14, 1972; February 3, April 4, and July 28, 1973.

2. *Foreign applicants:*

The closing date for admission is August 20. Applications must include the scores of the Test of English as a Foreign Language (TOEFL), the Examination of the English Language Institute of the University of Michigan, or another approved language test. Since applications from students who desire financial aid must be complete by January 25, applicants must arrange to take language tests well before that date. Candidates offering scores of the TOEFL must register for it in September and take the test not later than October of the year preceding the year in which they wish to enter.

For information concerning the TOEFL write to: TOEFL, Educational Testing Service, Princeton, New Jersey 08540. Tests are given on October 30, 1972; January 15, March 26, and June 4, 1973.

Students in departments requiring the Graduate Record Examination should also arrange to take these tests not later than October.

3. *Applicants for financial aid:*

Students wishing to apply for fellowships, scholarships, assistantships, tuition grants or other forms of financial aid must present complete applications by the following dates:

For United States and Canadian citizens:

Applicants for fellowships, scholarships, assistantships, full-time and part-time tuition grants February 1

Applicants for loans April 1 and September 1

For Foreign Citizens:

Applicants for scholarships January 25

Admission to Graduate Seminars and Courses

Admission to graduate seminars and courses is under the jurisdiction of the various departments. Students whose preparation is inadequate may be required to complete appropriate undergraduate courses before being enrolled in a full graduate program.

Registration

All graduate students, after consultation with the chairmen of their departments, must register at the Office of the Graduate School of Arts and Sciences in the M. Carey Thomas Library each semester during the registration period listed in the College Calendar. Changes in registration require the approval of the department chairman and the Dean.

Personal registration is an important obligation of the graduate student. Those who fail to register in the stated period will be charged a late registration fee.

Students wishing certification to outside agencies must complete a form to be signed also by the department chairman and deposited in the Office of the Graduate School of Arts and Sciences.

Continuing enrollment

Students who have completed the required academic units for the Ph.D. degree and are continuing independent work on their dissertations must retain their enrollment and degree candidacy by registering for one or more units each semester or under the continuing enrollment plan.

Students who are studying independently or who wish to present themselves for examinations may also enroll under the continuing enrollment plan. Such enrollment does not carry academic credit.

Degree Candidacy

Students become candidates for advanced degrees only after they have met departmental requirements and made formal application which has been approved by the Council of the Graduate School of Arts and Sciences.

Resources for Graduate Work at Bryn Mawr

The Mariam Coffin Canaday Library, and the nine auxiliary libraries of Bryn Mawr College, including the Art and Archaeology collection in the M. Carey Thomas Library, contain over 360,000 books and regularly receive nearly 2000 periodicals as well as many scholarly series. The Library has generous hours of opening throughout the year. Books are readily accessible on open stacks and in study rooms: individual carrels are available for advanced students.

The John D. Gordan Reference Center provides a focus for reference books and services in the library. In its card catalog, the main entry cards of the Haverford College Library join those of the Bryn Mawr Library, thus bringing approximately 625,000 entries into one file. In addition, the Library is a member of the Union Catalogue of Pennsylvania, which locates nearly 7,000,000 volumes in the Philadelphia area and throughout the state, including the libraries of the American Philosophical Society, the Library Company of Philadelphia, the Historical Society of Pennsylvania, the Academy of Natural Sciences, the Free Library of Philadelphia, the Franklin Institute, the College of Physicians, the Rosenbach Foundation, the University of Pennsylvania and Temple University.

The Rare Book Room houses the Marjorie Walter Goodhart Mediaeval Library of incunabula and mediaeval manuscripts. Important and extensive collections of early material on Latin America, Africa and Asia are to be found in the Dillingham, McBride and Plass collections. The Castle collection expands the opportunities for the study of the graphic book arts. In addition to these special collections are numerous other rare books and manuscripts.

Bryn Mawr has a study collection of archaeological and ethnological materials which is used for research by graduate and undergraduate students. The Ella Riegel Museum of Classical Archaeology contains examples of the Greek and Roman arts, especially vases, and a small group of pre-classical antiquities. It includes the classical Greek coins assembled by Elisabeth Washburn King and the Aline Abaccherli Boyce Collection of Roman Republican silver coins as well as the Densmore Curtis Collection presented by Clarissa Dryden. Professor Hetty Goldman has donated an extensive series of pottery samples from the excava-

tions at Tarsus in Cilicia. Old World Paleolithic, Neolithic, Paleo-Indian, Eastern Woodland, Southwestern, Middle Mississippian and Mexican antiquities are also represented at Bryn Mawr in addition to the Ward Canaday Collection of outstanding examples of most of the ceramic and textile traditions known of Peru.

The Geology Department has valuable materials for research including the mineral collection of George Vaux, Jr. and 25,000 maps on deposit from the United States Army Map Service.

Students also use the resources of the Philadelphia area: the Philadelphia Museum of Art, the Pennsylvania Academy of the Fine Arts, the Barnes Foundation, and the University Museum of the University of Pennsylvania. They take advantage of the musical life of the city by attending the Philadelphia Orchestra and by playing or singing with local groups.

Laboratories, classrooms and libraries for Biochemistry, Biology, Chemistry, Geology, Mathematics and Physics are located in the three buildings of the Science Center. At the Center are rooms designed for work with radioactive materials, for microphotography and for glassblowing; there is a machine shop with expert machinists in charge and a workshop available to graduate students. Laboratories and classrooms for Anthropology and Psychology are in Dalton Hall. In addition to the usual equipment, apparatus and instruments for particular research projects by faculty and graduate students have been acquired, in part, through the Plan for the Coordination of the Sciences, through research grants from industry and other private sources, and from government agencies.

Through its membership in the Uni-Coll Corporation, a regional educational computer consortium, Bryn Mawr College has access to the resources and technical support of a major computing center. A high speed, remote batch terminal (printer at 600 lines per minute, card reader at 600 cards per minute) and nine teletypewriter terminals located on campus link the College with the Uni-Coll IBM 370, Model 165 computer. These facilities make available to faculty and students batch, remote job entry, and interactive computing supported by a large variety of programming systems.

Program of Study

The program of study consists of selected seminars, courses or individual work under the close direction of members of the faculty. For the sake of convenience, this program is divided into academic units which are to be completed at Bryn Mawr College. Three academic units constitute a full year's program. An academic unit may be a seminar, an undergraduate course for graduate credit, independent study in preparation for the Preliminary Examinations, or a supervised unit of work.

A minimum of three academic units at Bryn Mawr is required for the degree of Master of Arts. Candidates for the degree of Doctor of Philosophy must complete three full years of graduate work which shall, with certain exceptions, include a minimum of six academic units at Bryn Mawr. Of these units at least one must be a unit of supervised work on the dissertation. The dissertation units may be part of the residence requirement or in addition to it.

The number of units required for the Doctor of Philosophy may be reduced to no less than four for those who have held academic appointments at Bryn Mawr College for two or more years. Students holding the A.B. degree from Bryn Mawr College shall offer a minimum of three units. The Council of the Graduate School of Arts and Sciences may, on recommendation of the departments, reduce the requirements for other students.

For the list of advanced undergraduate courses which with additional work may be accepted as graduate units subject to the approval of department chairmen and the Dean of the Graduate School of Arts and Sciences, see the departmental offerings beginning on page 16.

In many departments, members of the faculty and graduate students meet from time to time in Journal Clubs or Colloquia to discuss current research or review recent publications in their field of study.

Under the Reciprocal Plan, courses at the University of Pennsylvania Graduate School of Arts and Sciences are available to Bryn Mawr graduate students. 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. 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 must present a letter of introduction to the Dean of the Graduate

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School of Arts and Sciences of the University of Pennsylvania when registering there. The University charges a small general fee for the use of the library, a library deposit, which is refundable, and fees for late registration. Since the University of Pennsylvania opens early in September, Bryn Mawr students must make appropriate arrangements the previous spring. Ordinarily students are not advised to undertake such work during their first year at Bryn Mawr.

Students enrolled in the program in the History and Philosophy of Science attend seminars at the American Philosophical Society and at the University of Pennsylvania and register for these at Bryn Mawr.

Summer Work

Bryn Mawr has no regular summer session on campus. Occasionally, at the invitation of members of the faculty, arrangements can be made for graduate students to continue research during the summer. The amount of credit for the work and the tuition fee to be charged depend upon the particular circumstances. Students should register for such work at the Office of the Dean of the Graduate School of Arts and Sciences 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'Etudes françaises d'Avignon*. Certain 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. Eleanor K. Paucker, Department of Spanish, Bryn Mawr College.

Degree Requirements

The Graduate School of Arts and Sciences offers programs leading to the degrees of Doctor of Philosophy and Master of Arts.

The Degree of Doctor of Philosophy

The course of study is designed to prepare students for professional careers as scholars and teachers. Candidates should have ability of high order, intellectual curiosity, 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 general requirements, to which should be added those of the various departments, are as follows:

1. Undergraduate preparation in major and allied fields which is satisfactory to the departments concerned and to the Council of the Graduate School of Arts and Sciences.

2. A minimum of three full years of work beyond the A.B. degree in major and allied fields. Graduates of other colleges must complete at least six academic units at the Graduate School of Arts and Sciences of Bryn Mawr College. Of these units, at least one must be a unit of supervised work on the dissertation. The dissertation units may be part of the residence requirement or in addition to it. The residence requirement may be reduced by the Council of the Graduate School of Arts and Sciences for candidates who have held academic appointments for two or more years at Bryn Mawr College and occasionally for others. Students who hold the A.B. degree from Bryn Mawr College must complete a minimum of three academic units at Bryn Mawr.

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 Council of the Graduate School of Arts and Sciences. Application for candidacy, on a form to be obtained at the Office of the Dean of the Graduate School of Arts and Sciences, may be made as early as the spring of the student's first year provided that the student has been registered for two units of graduate work at Bryn Mawr.

4. Knowledge of the foreign languages, computer languages (such as FORTRAN, ALGOL, PL/I etc.), and special techniques (such as statistics) required by the individual departments. In certain circumstances, students whose native language is not English may

offer English for one of the languages. These requirements must be fulfilled before the student takes the Preliminary Examinations.

5. Satisfactory Preliminary Examinations in the fields established for the candidate. These examinations are intended to test the candidate's knowledge of the principles of the subject, exemplified by the command of several fields or areas, the ability to apply knowledge to new problems, and power of organization.

6. The preparation of a dissertation worthy of publication, which presents the results of independent investigation in the fields of the major subject and contains original material, results or interpretations.

7. A satisfactory Final Oral Examination in the special fields in which the dissertation has been written.

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

A special pamphlet describing regulations for the Ph.D. degree will be issued to students applying for candidacy.

The Degree of Master of Arts

The general requirements for the M.A. degree are as follows:

1. Undergraduate preparation in major and allied fields which is satisfactory to the departments concerned.

2. A knowledge of one modern foreign language and such additional foreign languages or special techniques as the individual departments may require. Students whose native language is not English, except for those majoring in the language and literature of their native tongue, are not required to present an additional language.

3. The completion of a satisfactory program of work endorsed by the department and accepted by the Council of the Graduate School of Arts and Sciences. Application for such endorsement must be submitted on appropriate forms to the Dean of the Graduate School of Arts and Sciences not later than one week after the beginning of the second semester of the academic year in which the candidate wishes to take the degree. The program of study 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. Only one such course may be offered for the M.A. degree. Under certain circumstances advanced undergraduate courses in science

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can be counted as seminars, subject to the approval of the department and the Dean of the Graduate School of Arts and Sciences. Candidates whose major department conducts a Journal Club or Colloquium are expected to include it in their program.

4. The preparation of a paper in a special field normally related to one of the seminars or units of graduate work in the candidate's program. Candidates currently at Bryn Mawr College shall submit this paper by the date set by the department. Candidates not currently on campus must submit the paper 30 days before Commencement of the academic year of the degree.

5. Each candidate, after all other requirements have been completed, must pass a Final Examination.

6. 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 (60 months).

Graduate Program in Arts and Sciences 1972-73

Graduate Seminars and Courses

Graduate seminars and courses vary from year to year. Brackets designate courses or seminars not given in the current year. Undergraduate courses which may with additional work be offered for graduate credit are listed by number. 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.

Special graduate requirements are listed under each department. For the general degree requirements for the M.A. and the Ph.D., see pages 13-15.

Anthropology

Professor: Frederica de Laguna PHD

Associate Professor: Jane C. Goodale PHD *Chairman*

Assistant Professor: Philip L. Kilbride PHD¹

Lecturer: Charles C. Kolb MA

Visiting Lecturers: William H. Davenport PHD

Igor Kopytoff PHD

Associate Professor of German: Nancy C. Dorian PHD (Linguistics)

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,

¹On leave, 1972-73.

History, History of Religion, History of Art, Linguistics, Philosophy, Political Science, Psychology and Sociology.

Language Requirements: Candidates for the M.A. or Ph.D. must offer two modern languages (French, German, Russian, Spanish). Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. For students with an excellent undergraduate preparation, the program may consist of a minimum of three units of work in seminars or advanced undergraduate courses arranged for graduate credit, one of which may be in an allied subject. The program usually takes two years. The M.A. Paper may be based on an essay offered in a seminar. The Final Examination consists of one four-hour written examination, but the Ph.D. Preliminary Examinations may be substituted for the M.A. Examination. All graduate students are expected to take the M.A. before proceeding to the Ph.D., except, of course, those who enter Bryn Mawr College with an M.A.

Program and Examinations for the Ph.D. All Ph.D. candidates will be expected to become familiar with the principles of the following: (1) Prehistory or Archaeology of some major area, (2) Ethnology, (3) History of Anthropology and Anthropological Theory, and with at least one of the following (4) Linguistics, or (5) Physical Anthropology, or (6) Human Paleontology.

The Preliminary Examinations for candidates for the Ph.D. (usually taken near the end of the third year of graduate work) will consist of four three-hour written examinations and an oral examination of one hour. One of these examinations may be in an allied field.

Since the dissertation is usually based upon field work, it is difficult for a student to obtain the degree in less than five years.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

General:

Basic Principles of Anthropology: Miss de Laguna (semester I).
[*Anthropological History and Theory.*]

Ethnology:

[*North America.*]

West Africa: Mr Kopytoff (semester I).

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[*Australia.*]

[*Meso-America.*]

Melanesia: Miss Goodale (semester I).

[*Oceania.*]

[*Central Asia.*]

[*Peasants.*]

Special Topics:

[*Ethnographic Methods.*]

[*Psychological Anthropology.*]

[*Cultural Dynamics.*]

[*Primitive Religion and World View.*]

Social Organization: Miss Goodale (semester II).

[*Economic Anthropology.*]

[*Political Anthropology.*]

Art of Primitive Peoples: Mr Davenport (semester II).

Prehistory and Physical Anthropology:

Rise of Old World Civilizations: Mr Kolb (semester I).

[*Archaeology of North, Middle and South America.*]

[*Human Evolution and Cultural Beginnings.*]

[*Prehistory of Central Asia.*]

Units of supervised readings are sometimes substituted for seminars.

In addition, courses at the University of Pennsylvania are available under the terms of the Reciprocal Plan (see page 11).

SELECTED UNDERGRADUATE COURSES

320a. *Cultural Theory*: Miss de Laguna.

321b. *Culture and Personality*: Miss de Laguna.

[322b. *Physical Anthropology.*]

323b. *Native Cultures of Latin America*: Mr Kolb.

[Interdepartmental 308. *Introduction to Linguistics.*]

Interdepartmental 310. *Linguistic Techniques*: Miss Dorian.

Interdepartmental 312b. *Field Methods in Linguistics*: Miss Dorian.

Biology

Professors: Robert L. Conner PHD *Chairman*
Jane M. Oppenheimer PHD

Assistant Professors: Anthony R. Kaney PHD¹
David J. Prescott PHD
Allen C. Rogerson PHD

Lecturer: Patricia O. Pruett PHD *Associate Dean of the Undergraduate College*

Assistant Professor of Chemistry: J. Maitland Young PHD

Prerequisites: An undergraduate major in Biology, Zoology or Botany, including courses in General and Organic Chemistry. Some college level 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 should submit scores from the Graduate Record Examination Aptitude Test and the Advanced Test in Biology.

Major and Allied Subjects: Candidates for the M.A. and Ph.D. degrees may specialize in Biochemistry, Cell Biology, Cellular Physiology, Developmental Biology, Genetics, Molecular Biology or Microbiology, but must take work also from areas not chosen for specialization. Allied subjects may be selected from fields in Chemistry, Physics and Psychology, and in special cases from other related fields, with the approval of the Council of the Graduate School of Arts and Sciences.

Language Requirements. Candidates for the M.A. degree should offer French, German or statistics. Candidates for the Ph.D. degree must offer two foreign languages: French and German (or some other language by special permission of the Department and the Council of the Graduate School of Arts and Sciences), or one foreign language and statistics. The statistics requirement may be satisfied by passing a graduate course in statistics at Bryn Mawr. Language skills will be tested by the examinations administered by Bryn Mawr College.

Program and Examination for the M.A. One full year, or its equivalent, of course work in seminars and 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

¹On leave, 1972-73.

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supervised research for formal course work. The Final Examination consists of a three-hour written examination covering the areas of study, and a one-hour oral examination concentrating particularly on the interpretation and significance of the experimental problem and its relation to biology more generally.

Examinations for the Ph.D. The Preliminary Examinations for the Ph.D. consist 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.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

All seminars and advanced undergraduate courses arranged for seminar credit are offered for one semester each year. The topics considered in any semester are selected in accordance with the needs and desires of the students enrolled.

GRADUATE COURSES

Advanced Biochemistry: Mr Prescott, Mr Young (semesters I and II).

A course emphasizing the biophysical and biorganic aspects of biochemistry. A detailed treatment of protein chemistry and catalysis will be included. Two hours lecture. No laboratory. Prerequisites: Biology 353, Chemistry 203.

Statistics: (See offerings in the School of Social Work and Social Research and the Department of Psychology.)

SEMINARS

Developmental Biology: Miss Oppenheimer (semester I).

A single topic, chosen by the students enrolled, will be discussed in depth during the semester. The majority of the meetings will be devoted to student discussions rather than formal presentations. Topics discussed during recent years have included: constancy and change during post-embryonic development; enzymes in development; nucleocytoplasmic interactions during cell differentiation; morphogenetic substances.

[*Genetics*: Mr Kaney.]

A study of current literature dealing with genetic theory and problems. The seminar will include presentation and discussion of topics concerning areas of mutual interest.

Molecular Biology: Mr Rogerson (semester II).

This seminar will deal with a limited number of topics chosen by the students. Possible topics include the regulation of RNA and protein synthesis, regulation of enzyme and of biosynthetic pathway activity, the mechanism and control of protein and nucleic acid synthesis.

Biochemistry: Mr Conner (semester I).

Membrane structure and function. After an analysis of the present state of knowledge about the chemical composition of membranes, known biological transport systems will be defined in terms of the current membrane models.

Neurochemistry: Mr Prescott (semester II).

Structure and basic function of neural tissue will be examined. Metabolism of neural tissue will be discussed in the context of the uniqueness of this tissue. Membrane structure, energy metabolism, amine metabolism, and the role of cations in impulse conduction will be some of the topics covered.

ADVANCED UNDERGRADUATE COURSES

The following advanced undergraduate courses with supplemental work may be taken for graduate credit:

- [351a. *Problems in Genetics*: Mr Kaney.]
- 352a. *Problems in Molecular Biology*: Mr Rogerson.
- 353. *Biochemistry*: Mr Conner, Mr Prescott, Mr Young.
- 354b. *Aspects of Immunology*: Mr Rogerson.
- 355b. *Analysis of Development*: Miss Oppenheimer.
- [356. *Biophysics*: Miss Hoyt.]
- Int. 357b. *Computer Use in the Life Sciences*: Mrs Prueett.

Journal Club. All members of the Department and the graduate students meet each week for a presentation of current research in Biology. Graduate students, faculty and outside speakers will participate.

Chemistry

Professors: Ernst Berliner PHD *Chairman*

Frank B. Mallory PHD

George L. Zimmerman PHD

Associate Professors: Jay Martin Anderson PHD

Joseph Varimbi PHD

Assistant Professor: J. Maitland Young PHD

Lecturer: Frances Bondhus Berliner PHD

Assistant Professor of Biology: David J. Prescott PHD

Fields of Study and Research. The primary aim of the instruction of graduate students in the Department of Chemistry is to provide a sound background in modern chemistry and to prepare men and women for a professional career in productive scholarship, research, and teaching in chemistry. Courses and seminars are offered to enable the students to acquire a command of their chosen fields, in addition to a sufficiently broad general background so that they will be prepared for the variety of assignments in chemistry teaching or research which they may later encounter. Thesis research is the major part of the training. Research training is centered on a variety of investigations carried out by the members of the faculty. Currently there are active research programs involving both faculty and students in the following areas of organic, inorganic, physical, and theoretical chemistry: kinetics of electrophilic substitution and addition, relative reactivities of polynuclear aromatic systems, isotope effects, the photochemical conversion of stilbenes to phenanthrenes, the chemistry of benzofurazan oxide, the use of nuclear magnetic resonance spectroscopy for structural organic problems, reactions in liquid ammonia and other non-aqueous solvents, photochemical cis-trans isomerizations, ultraviolet and vacuum ultraviolet absorption studies of hydrated transition metal ions, nuclear magnetic resonance as applied to nuclear relaxation, chemical exchange studies and enzyme mechanisms.

Under the Plan for the Coordination of the Sciences there are special opportunities for research and training in such interrelated areas as geochemistry, chemical physics, etc.

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 Biochemistry, Organic, Inorganic or Physical Chemistry. The allied subject for the Ph.D. may be chosen from the fields of 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 Council of the Graduate School of Art and Sciences and on the recommendation of the Department. The typical work for the allied subject would be a year's course or seminar on an approved level.

Language Requirements. Candidates for the M.A. must offer German, French or Russian. Candidates for the Ph.D. may offer German and either French, Russian or demonstrated skill in digital computation, numerical analysis and the theory of error. This skill may be demonstrated by an examination consisting of two parts, a practical part requiring the successful execution of a FORTRAN (or other equivalent language) program, and a written examination on numerical analysis and error theory, or by a satisfactory grade in an appropriate course.

Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. Students who are candidates for the M.A. 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. Ph.D. students will normally be expected to devote a large proportion of their time to experimental or theoretical research, carried out under the direction 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 Examinations will normally be taken after the experimental work is well advanced. They consist of two four-hour written examinations, and a third, oral examination, which constitutes a defense of a number of research proposals previously submitted by the student. Four such proposals are required, two of which may be related to the student's thesis. The two written examinations will be from the candidate's major field. One will be a

broad examination in the general aspects of the major field. The second will be in the special field of the candidate's research, with questions to include those testing familiarity with, and ability to interpret, material from the recent chemical literature of the candidate's special field. The proposition examination must be taken within one year after the first written examination. 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.

For general degree requirements for the M. A. and the Ph. D., see pages 13-15.

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 each one is usually given at least once within a three-year period. The topics listed below are given in one-semester seminars, counting one-half unit of credit each. Ordinarily four seminars are offered each year. Individual programs are flexible, and the contents of the seminars are likely to vary with the research interests of the students and the current research activities of the faculty.

The seminars listed below are illustrative of those that have been offered in recent years.

Inorganic Chemistry: Mr Varimbi.

Recent Methods in Organic Synthesis: Mr Mallory.

Structure and Physical Properties of

Organic Compounds: Mr Berliner.

Spectral Applications in Current Organic Chemistry: Mr Mallory.

Physical Organic Chemistry: Mr Berliner.

Natural Products: Mrs Berliner.

Physical Organic Aspects of Aromatic Chemistry: Mr Berliner.

Organic Photochemistry: Mr Mallory.

Chemistry of Heterocyclic Compounds: Mrs Berliner.

Introduction to Chemical Physics: Mr Zimmerman.

Introduction to Molecular Spectroscopy: Mr Anderson.

Intermediate Quantum Mechanics: Mr Anderson.

Photochemistry: Mr Zimmerman.

Theory of Electrolytic Solutions: Mr Varimbi.

Applications of Group Theory in

Quantum Mechanics: Mr Zimmerman.

Nuclear Magnetic Resonance: Mr Anderson.

Statistical Thermodynamics: Mr Varimbi.

Physical Chemistry of Proteins and Nucleic Acids: Mr Young.

Chemistry of Coenzymes: Mr Young.

Mechanism of Enzymatic Reactions: Mr Young.

For additional seminars in Biochemistry, see Department of Biology.

Colloquium. All members of the Department and the graduate students meet every week for a presentation of current research in Chemistry, usually by outside speakers.

SELECTED UNDERGRADUATE COURSES

The following advanced undergraduate courses may be taken for graduate credit:

- 301b. *Advanced Inorganic Chemistry*: Mr Varimbi.
- 302. *Advanced Organic Chemistry*: Mr Mallory, Mr Berliner.
- 303. *Advanced Physical Chemistry*: Mr Anderson,
Mr Zimmerman.
- 353. *Biochemistry*: Mr Conner, Mr Prescott, Mr Young.

Classical and Near Eastern Archaeology

Professors: Machteld J. Mellink PH D *Chairman*
Brunilde S. Ridgway PH D

Associate Professors: Carl Nylander PH D
Kyle M. Phillips, Jr. PH D

Prerequisites. An undergraduate major in Archaeology or at least two courses in Archaeology combined with a major in Greek, Latin, Ancient History, or History of Art. It is expected that students of Classical and Near Eastern Archaeology will have a basic knowledge of Greek, Latin and Ancient History. Students with incomplete preparation in Archaeology will be advised to take selected undergraduate courses during their first year in graduate school.

Allied Subjects. Greek, Linear B, Latin, Akkadian, Hebrew, Hittite, Egyptian, History of Art, Ancient History, Anthropology, a science related to the archaeological program of the candidate.

Language Requirements. For the M.A. and Ph.D., a good reading knowledge of German and French. For the Ph.D., a reading knowledge of Greek or a Near Eastern ancient language. Language skills may be tested by either the Graduate School Foreign Language Test

(GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College.

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 (three hours) and oral (one hour).

Program and Examinations for the Ph.D. The students spend the first two years in residence, participating in seminars and preparing for the Preliminary Examinations. The third year is usually spent at the American School of Classical Studies in Athens or at another archaeological research center abroad. Museums in Europe and the Near East are visited during this year, and participation in excavations is arranged when possible (see below).

The Preliminary Examinations, normally taken at the end of three years of graduate work, consist of four four-hour papers in selected fields such as Greek and Roman sculpture, architecture, monumental painting, Greek vase-painting, numismatics, Aegean prehistory, prehistory of Western Asia, Mesopotamian art and archaeology, the archaeology of Anatolia or Syria. One of the papers may be written in an allied field. The Final Examination covers the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

Excavations. The Department currently sponsors two excavation projects:

- I. An investigation of the Bronze Age habitation of ancient Lycia, in progress since 1963 at the third millennium B.C. site of Karataş near Elmali.* Advanced graduate students participate in this excavation which is organized as a field seminar during the fall term with full graduate credit. The program provides instruction in excavation and field techniques and gives an opportunity to visit other sites, excavations and museums in Turkey, with discussion of the problems of the Bronze Age in the Aegean and Anatolia. The final publication will be prepared on the basis of the joint field reports by the participants.
- II. The Etruscan project, started in 1966, is the excavation of the archaic site of Murlo near Siena, organized in cooperation with the Archaeological Museum in Florence. The work takes place during the summer and offers qualified graduate and undergraduate students training in excavation techniques while par-

*cf. *American Journal of Archaeology* 68 (1964) 269-278; 69 (1965) 241-251; 70 (1966) 245-257; 71 (1967) 243-263; 72 (1968) 243-263; 73 (1969) 319-331; 74 (1970) 245-259; 75 (1971) 257-261.

icipating in the study of a townsite and necropolis of the sixth century B.C.*

Cooperation with the University of Pennsylvania. Attention is drawn to the courses offered by the Departments of Classical Archaeology, Anthropology, History of Art, Oriental Studies, and Biblical Archaeology at the University of Pennsylvania. 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 following seminars are offered in 1972-73:

Miss Mellink:

Field Seminar in Lycia (semester I).

Phrygian Archaeology or Problems in Minoan Archaeology (semester II).

Mrs Ridgeway:

Problems of Archaic Greek Sculpture (semester I).

Problems of Classical Greek Sculpture (semester II).

Mr Phillips:

The Orientalizing Period in Etruria (semester I).

Architectural Terracottas (semester II).

Mr Nylander:

Archaeology of the Medes and Persians (semester I).

Archaeology of the Parthians and Sassanians (semester II).

ADVANCED UNDERGRADUATE COURSES

201b. *Egypt and Mesopotamia pre-1600 B.C.*: Miss Mellink.

202b. *Greek Cities and Sanctuaries*: Mrs Ridgeway.

203a. *Greek Sculpture*: Mr Phillips.

203b. *Roman Sculpture*: Mrs Ridgeway.

[204b. *Egypt and Mesopotamia from 1600 to 546 B.C.*:
Miss Mellink.]

205b. *Aegean Archaeology*: Miss Mellink.

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

301b. *Greek Architecture*: Mr Nylander.

[302b. *Roman Architecture*: Mr Phillips.]

[304a. *Monumental Painting*: Mr Phillips.]

History 205a. *The Ancient Near East*: Mr Nylander.

*cf. *American Journal of Archaeology* 71 (1967) 133-139; 72 (1968) 121-124; 73 (1969) 333-339; 74 (1970) 241-244; 75 (1971) 245-255.

Economics

Associate Professors: Noel J. J. Farley PHD *Chairman*
Richard B. Du Boff PHD¹
Helen Manning Hunter PHD

Appointment to be announced.

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. Students whose undergraduate training in Economics is incomplete may be required to take such undergraduate courses as the Department thinks necessary.

Allied Subjects. Most subjects in the other social sciences, and in History and Philosophy, are acceptable. Mathematics and statistics are necessary to advanced work in Economics.

Language Requirements. Candidates for the M.A. and Ph.D. must show reading proficiency in one modern language and competence in statistics and econometrics. The statistics-econometrics requirement will be tested by the Department or may be satisfied by passing a graduate course at a satisfactory level.

Language skills will be tested by the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service. Entering student may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program of Study for the M.A. 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 statistics and econometrics, and one in the student's special field of interest. 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.

Admission to the Ph.D. Program. Students holding a Master's degree in Economics from other institutions may be required to pass a qualifying examination before admission. Those who have been

¹On leave, 1972-73.

admitted to the Ph.D. program are eligible to apply for candidacy for the Ph.D. when they have completed or are about to complete six full units of graduate work at Bryn Mawr, which are to include the completion of the Bryn Mawr M.A. program. Some candidates may be expected to take the equivalent of at least one year of graduate work at another institution approved by the Department.

Program of Study of the Ph.D. 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 Examinations 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.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS

Seminars are chosen each year from the following topics:

Mr Du Boff:

Economic History and Development.
Western European Economic Development.

Mr Farley:

International Economic Development.
International Trade Theory and Policy.

Mrs Hunter:

Macroeconomic Analysis.
Econometrics.

Appointment to be announced:

Public Finance.
Microeconomic Analysis.

SELECTED UNDERGRADUATE COURSES

- 201a. *Economic History and Development.*
- 207a. *Money and Banking.*
- 222b. *History of Economic Thought.*
- 301a. *Statistical Methods in Economics.*
- 302b. *Introduction to Econometrics.*
- 304b. *Microeconomic Analysis.*
- 311a. *Seminar in International Economics.*

Education and Child Development

Professor: Ethel W. Maw PHD *Chairman*

Professor and Director, Child Study Institute: Janet L. Hoopes PHD

Associate Professor and

Director, Thorne School: Susan E. Maxfield MS

Assistant Professors: Emmy A. Pepitone PHD

Faye P. Soffen EDD

James J. Tracy PHD

Instructor: Beth M. Riser MA

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.

Bryn Mawr has program approval from the Pennsylvania Department of Education for several curriculum sequences which prepare candidates for public school professions. These courses of study include teacher education in twelve liberal arts fields, school psychology and school counseling, both elementary and secondary. Students who satisfactorily complete an approved program will, on the recommendation of this department, receive the state certificate in the appropriate field.

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 and a statement of their academic plans and goals. Undergraduate grades of at least B level are necessary. A personal interview is desirable.

Major and Allied Subjects. Candidates for advanced degrees are expected to become competent in several different areas: Child

Development, Clinical Evaluation, Counseling and Guidance, Early Childhood Education, History and Philosophy of Education, Learning, the School as a Social Institution, Secondary Education, Elementary Education. For the M.A., two fields are required. For the Ph.D., five fields must be presented. One field may be an allied field and is individually arranged. Field examinations are given once each semester.

Requirements in Languages and Statistics. For the M.A., students are required to pass an examination in one modern foreign language and demonstrate a working knowledge of descriptive and inferential statistics. For the Ph.D., students are required to pass an examination demonstrating reading knowledge of one modern foreign language and competence in statistics through multiple correlation and factor analysis. The statistics requirement for both degrees may be satisfied by passing an examination or by passing an appropriate course at a satisfactory level. Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

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 Examinations consist of four written papers. A written examination is not required for the fifth field. The Final Examination is in the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

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 spend substantial blocks of time in the Thorne School.

The Department also operates at the College the Child Study Institute, a mental health center where problems of learning and behavior are studied and remedial measures planned and carried

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out with parents and children. The service is given by a staff of qualified specialists in child psychiatry, psychology, school counseling and remedial teaching. Advanced students participate at various levels of responsibility. Referrals from the schools, 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, individual and group therapy and student observation.

SEMINARS

The seminars offered are selected from the following (in most cases, laboratory practice is required). All seminars run throughout the academic year unless otherwise indicated.

Miss Hoopes:

Critical Issues in Child Development (semester I).

Adolescent Development (semester II).

Mrs Maw:

Curriculum of the Elementary School (semester I).

Research and Measurement in Education and Child Development.

Basic Concepts in Measurement (with other members of the Department, semester II).

Miss Maxfield:

Developmental Psychology.

Early Childhood Education.

Advanced Theory and Practice in Early Childhood Education.

Mrs Pepitone:

History and Philosophy of Education.

The Social Psychology of the School.

Analysis of Social Structure and Interaction in the Classroom.

Educational Psychology (semester I).

Mrs Riser:

The Psychology of Exceptional Children (semester I).

The Diagnosis and Remediation of Learning Disabilities
(semester II).

The Treatment of Reading Disorders.

Educational Psychology (semester II).

Mrs Soffen:

Principles and Organization of the Guidance Program
(semester I).

The Counseling Process: Theory and Practice.

The Group Process in Counseling and Guidance (semester II).
The Psychology of Occupations (semester I).
Advanced Theory and Practice in Counseling and Guidance.

Mr Tracy:

Clinical Evaluation.
Advanced Theory and Practice in Clinical Psychology.
Childhood Psychopathology.

SELECTED UNDERGRADUATE COURSES

- 301a. *Principles of Teaching in the Secondary School:* Mrs Maw.
 302b. *Principles of Teaching in the Elementary School:* Mrs Maw.
 [306a. *Child Psychology:* Mr Tracy.]
 [306b. *Adolescent Development:* Mr Tracy.]

Courses 301a and 302b satisfy the student-teaching requirement of most states. Plans for registration should be made with Mrs Maw in the spring before the student expects to take the course so that appropriate arrangements can be made.

English

Professors: Robert B. Burlin PHD¹ *Chairman*
 K. Laurence Stapleton AB

Associate Professors: Thomas H. Jackson PHD
 Joseph E. Kramer PHD *Acting Chairman,*
semester II.

Assistant Professors: Roger W. Cummins PHD
 June Q. Koch PHD²
 Sandra I. Kohler PHD
 Clifford Earl Ramsey PHD

Lecturers: Louise K. Barnett PHD
 Anthony J. Litwinko MA
 Adrienne Lockhart PHD

Instructor: Katherine Janowitz MA

¹ On leave, semester II.

² On leave, 1972-73.

Prerequisites. An undergraduate major in English or its equivalent. Students should 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 should submit scores in the Aptitude Test of the Graduate Record Examination.

Allied Subjects. Any classical or modern European language and literature; Philosophy; medieval or modern History; and History of Art.

Language Requirements. For the M.A. degree, a knowledge of either French or German, adequate to the reading of basic scholarly and literary texts. For the Ph.D., the student must *either* pass examinations in both French and German *or* demonstrate superior competence in one by satisfactorily completing one unit of graduate work in that language or its literature at Bryn Mawr. (In special cases, with the approval of the appropriate language department and of the Department of English, equivalent work at another university may be accepted.) With the approval of the Department, another modern language may be substituted for French or German, when it can be shown to be particularly pertinent to a projected dissertation. Students working toward the doctorate are also required to show evidence of an adequate knowledge of Latin or Greek. It is expected that the student will satisfy these requirements early in his second year of graduate study; they must be completely satisfied before the doctoral candidate may present himself for the Preliminary Examinations.

Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. Three units of work in English or two in English and one in an allied field. The M.A. paper for students in residence is due on April 20. The Final Examination is written, four hours in length, and on the general field of the M.A. paper.

Program and Examinations for the Ph.D. Work of the Department is carried through small seminars and supervised units of independent study. Six units of graduate work are required, one of which may be in an allied field. Candidates will be expected to spend at least one year in full-time graduate work. The program must include some training in Old English or in the History of the English Language, unless a special exception is granted.

After acceptance for doctoral candidacy, the student will take Preliminary Examinations in five parts: four written (four hours

each) and an oral (one or two hours). One written examination may be in an allied field. The choice of the four fields will be determined by the student in consultation with the graduate advisor and the departmental examiners who will form the Supervising Committee. The candidate is expected to demonstrate a balanced knowledge of different periods.

Before proceeding with the dissertation, it is recommended that the doctoral candidate submit a prospectus to be discussed with the departmental members of the Supervising Committee. The Final Examination is in the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS

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

Mr Burlin:

[*Chaucer.*]

[*Old English Literature.*]

Middle English Literature (semester I).

Mr Kramer:

Shakespeare.

[*English Drama to 1642.*]

Miss Stapleton:

[*Milton.*]

Studies in Poetry.

Mr Ramsey:

Restoration and Eighteenth Century Literature.

[*English Prose Fiction from Bunyan to Jane Austen.*]

Mrs Koch:

[*Romantic Poetry.*]

Mr Cummins:

American Literature.

[*Nineteenth Century English and American Novel.*]

Mr Jackson:

Twentieth Century Literature.

SELECTED UNDERGRADUATE COURSES

228a, b. *Modern Drama*: Mr Kramer.

254a, b. *Victorian Literature*: Mr Litwinko.

257a, b. *Nineteenth Century Novel*: Mrs Lockhart,
Mrs Janowitz.

326a. *The Theatre of Ben Jonson*: Mr Kramer.

389a. *Studies in Twentieth Century Criticism*: Mr Jackson.

French

Professors: Michel Guggenheim PHD
Mario Maurin PHD

Visiting Professor: William J. Roach PHD

Associate Professors: M. Pauline Jones PHD *Chairman*
Gérard Defaux, *Agrégé*

Assistant Professors: Charles Altman PHD
Catherine Lafarge PHD

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 is advisable.

Applicants should submit scores in the Aptitude Test and Advanced Test of the Graduate Record Examinations. Candidates are strongly urged to arrange for a personal interview with a member of the Department.

Major and Allied Subjects. Students specialize in French literature from the Middle Ages to the present. Successful completion of a course in Old French philology and literature is required of Ph.D. candidates. 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. For the M.A. degree, one Romance language, or German, or evidence of extensive training in Mediaeval Latin or advanced Latin. For the Ph.D. degree, a reading knowledge of two languages (including one Romance language other than French), or at least one unit of graduate work in a Romance literature other than French, or in German literature. Students may satisfy the latter requirement by completing satisfactorily one unit of graduate work at Bryn Mawr. In special cases, with the approval of the appropriate language department, and of the Department of French, equivalent work at another university may be accepted.

Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. Candidates will offer two units of graduate work in French and a third unit, 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 Examinations for the Ph.D. The Preliminary Examinations consist of four papers written in French, and an oral examination. The Final Examination is oral and covers the field in which the dissertation has been written.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

An 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 French Literature are given each year, so arranged that the same one will not be given in successive years. The seminars, conducted in French, are selected from the following:

Mr Altman: *Le Développement du héros romanesque de l'Astrée aux Liaisons dangereuses.*

Racine et la critique contemporaine (1972-73).

Mr Defaux: *Villon, Charles d'Orléans, Marot.*

Les conteurs au XVI^e siècle.

Rabelais, Montaigne.

Poètes du XVI^e siècle (1972-73).

Mr Guggenheim: *Précieux, mondains et moralistes de XVII^e siècle.*

Voltaire.

Rousseau et le Prémantisme (1972-73).

Stendhal.

Miss Jones: *Baudelaire, Verlaine, Rimbaud.*

Scève, Mallarmé.

Vigny, Camus (1972-73).

Miss Lafarge:

Diderot.

Le thème de la prison au XIX^e siècle.

Marivaux, Giraudoux.

Mr Maurin: *Romancières des XIX^e et XX^e siècles.*

Réalisme et Naturalisme (1972-73).

Valéry, Claudel, Proust, Gide.

Travaux pratiques sur la littérature actuelle.

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

SELECTED UNDERGRADUATE COURSES

- [301. *French Lyric Poetry.*]
[302. *French Drama.*]
[303. *French Novel.*]
305a. *Molière: Mr Defaux.*
305b. *Apollinaire, Supervielle, Césaire: Miss Jones.*
306a. *Le thème de Paris dans la littérature française:*
Miss Lafarge.
306b. *L'image de la femme dans la littérature française:*
Miss Lafarge.

Courses offered at the Avignon Institute

Molière or Racine.

Les Fleurs du Mal or Rimbaud.

Le Surréalisme.

Travaux de traduction et de stylistique.

Geology

Associate Professor: Lucian B. Platt PHD *Chairman*

Assistant Professors: Maria Luisa B. Crawford PHD¹

William A. Crawford PHD

W. Bruce Saunders PHD

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.

¹ On leave, semester II.

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. degree, one of the following: Russian, German, or French. Candidates for the Ph.D. degree may offer two foreign languages from the following: Russian, German, or French; or one foreign language from this list and proficiency in digital computation or statistics. This proficiency will be tested by the Department or may be demonstrated by the satisfactory completion of an appropriate course.

Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

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 course work to be taken will depend on the student's preparation. The Preliminary Examinations will test general background in Geology, the candidate's special field and either an allied subject or an additional field in Geology.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

Three or four seminars are offered each year, to be selected from the following topics:

Mr Crawford: *Petrology.*

Selected subjects in the structure, physical chemistry and origin of rocks.

Mr Platt: *Structural Geology.*

Modern techniques and concepts in structural analysis.

Mrs Crawford: *Mineralogy.*

The optical, chemical and X-ray study of selected mineral groups.

Mr Saunders: *Sedimentary Petrology.*

A study of the constitution and the origin of sedimentary rocks; their source, transportation and deposition.

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Mrs Crawford: *Metamorphism* (semester I).

The physical and chemical processes of metamorphism, accompanied by regional studies. Instruction on the universal stage and a study of petrofabrics may be included.

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.

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.

Mr Saunders: *Paleontology*.

A study of selected animal groups in geologic time according to the interests and needs of the students.

SELECTED UNDERGRADUATE COURSES

302b. *Advanced Paleontology*: Mr Saunders.

303a. *Thermodynamics and Crystal Chemistry*: Mr Crawford.

[304. *Petrology*: Mr Crawford, Mrs Crawford, Mr Saunders.]

[305b. *X-ray Crystallography*: Mrs Crawford.]

306b. *Stratigraphy*: Mr Platt.

German

Professor: Hans Bänziger PHD

Associate Professors: Marie G. Flaherty PHD *Chairman*
Nancy C. Dorian PHD

Assistant Professor: James W. Scott PHD

Prerequisites. An undergraduate major or minor in German or an equivalent preparation. Applicants should submit scores in the Aptitude Test and Advanced Test of the Graduate Record Examinations.

Major and Allied Subjects. Students may specialize in either German literature or German philology. One of these two fields or an area in the humanities, especially the literatures, may serve as the allied subject. Graduate students are encouraged to acquaint themselves with the theory and practice of teaching German.

Language Requirements. Normally French for the M.A.; French and another language for the Ph.D., preferably Latin. With the approval of the Department, the satisfactory completion of a graduate seminar at Bryn Mawr in a foreign literature other than German may be offered for one language requirement. In special cases, with the approval of the appropriate language department, and of the Department of German, equivalent work at another university may be accepted.

Language skills are tested whenever possible by the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service, otherwise by the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. The program consists of three units in German literature or in German literature and 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 Examinations for the Ph.D. Every candidate must fulfill certain requirements in German literature and Germanic philology. Those majoring in Germanic philology take a minimum of one unit in German literature and will select the following courses: History of the German language, Gothic, Old High German, Middle High German, structural linguistics, and either Old English or Old Norse. Those majoring in German literature will take a minimum of one unit in Germanic philology and will normally take one unit each in the mediaeval, classical, and modern periods, as well as at least one genre course. The Department encourages interdepartmental research projects and draws attention to the Anna Ottendorfer Memorial Research Fellowship for study at a German university. The Preliminary Examinations consist of four written papers, one of which must be taken in an allied field, and an oral examination. The Final Examination covers the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS

Mr Bänziger:

Gottfried Keller and German Realism (semester I).
[*Hofmannthal and Rilke.*]
Franz Kafka (semester II).

Miss Dorian:

Old High German (semester I).
[*History of the German Language.*]
[*The Structure of German.*]

Miss Flaherty:

Bibliography and Methods in Criticism (semester I).
German Baroque Literature (semester II).
[*Goethe and Schiller.*]

Mr Scott:

[*The Legend.*]
[*Minnesang.*]
[*Reformation and Humanism.*]

SELECTED UNDERGRADUATE COURSES

- [300a. *A Survey of German Literature*: Mr Bänziger.]
[301b. *Introduction to Germanic Philology*: Miss Dorian.]
[302a. *Vernacular Literature in Mediaeval Germany*: Mr Scott.]
[304b. *The German "Novelle"*: Mr Scott.]
305a. *The Modern German Drama*: Mr Bänziger.
307b. *The Literature of the Reformation*: Mr Scott.

Preparatory course for degree candidates in other departments:

Reading German. This course, which does not carry academic credit, is designed to assist students in meeting the language requirements for advanced degrees. An extra charge will be made.

Greek

Professor: Mabel L. Lang PHD *Chairman*

Assistant Professors: Gregory W. Dickerson PHD
Richard Hamilton PHD

Prerequisites. An undergraduate major or minor in Greek, based on at least four years of college Greek, or the equivalent, with repre-

sentative 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 for both the M.A. and the Ph.D. Language skills may be tested either by examinations administered by Bryn Mawr College or the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

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 Examinations candidates must pass a rigorous examination in Greek sight translation. The Preliminary Examinations consist 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 (with emphasis on Homer), Lyric Poetry (with emphasis on Pindar), Tragedy, Comedy, the Orators, the Historians, the Pre-Socratics, Plato and various periods of Greek history. The Final Examination covers the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

Miss Lang: *Herodotus* (semesters I and II).

Mr Hamilton: *Euripides* (semester I).

Mr Dickerson: *Euripides* (semester II).

SELECTED UNDERGRADUATE COURSES

101. *Herodotus and Tragedy*: Mr Dickerson, Mr Hamilton.

102a. *Homer*: Mr Hamilton.

201. *Plato and Thucydides; Hesiod and Tragedy*: Mr Dickerson, Mr Hamilton.

301. *Lyric Poetry; Aeschylus and Aristophanes*: Mr Hamilton, Mr Dickerson.

History

Professors: Arthur P. Dudden PHD¹ *Chairman*
Elizabeth Read Foster PHD²
J.H.M. Salmon LIT D *Acting Chairman, semester I*
James Tanis THD *Director of Libraries*

Associate Professors: Charles M. Brand PHD²
Mary Maples Dunn PHD
Barbara M. Lane PHD³
Alain Silvera PHD

Assistant Professor: Charles A. Culotta PHD²

Lecturers: Mark Adams MA
Phyllis S. Lachs PHD *Associate Dean*
Jean B. Quandt PHD

Visiting Lecturer: Herbert Aptheker PHD

Prerequisites. A good undergraduate preparation in History, the humanities and the social sciences. Students who wish to work in the ancient or mediaeval fields must be able to read the essential ancient languages. Those planning work in Modern European History or American History must have a reading knowledge of one modern language, preferably French or German, upon entrance. Those planning doctoral programs should have two languages upon entrance or acquire the second language at once. Applicants are urged to take the Graduate School Foreign Language Test of the Educational Testing Service (GSFLT) before beginning their graduate studies.

Language Requirements. Students must offer at least one modern foreign language, to be determined by the Department, for the Master's degree. Students who wish to continue work toward the Ph.D. must have completed the examinations in two modern foreign languages, to be determined by the Department, by the end of their second academic year of graduate work. Students entering with the M.A. must complete these requirements during their first year at Bryn Mawr. The time limit for part-time students is determined by the academic year, not by the number of units completed. Candidates for the Ph.D. in ancient or mediaeval history must also demonstrate ability to read one classical language. Directors of research may also require demonstration of ability in special techniques.

Language skills may be tested by either the GSFLT or the examinations administered by Bryn Mawr College. Entering students

¹On leave, semester I.

²On leave, 1972-73.

³On leave, semester II.

may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. The program consists of three units of work in History or in History and an allied field, together with a paper and a final examination. 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 Examinations test the student's competence in four fields of History, or in three fields of History and one field in an allied subject. For example, allied work in Mediaeval Literature, Art, or Philosophy is usually recommended to students of Mediaeval History, and one of these may be offered in the Preliminary Examinations. Students whose dissertations are in American History will be required to take at least two fields in Modern European History. Students specializing in English History must offer at least two fields of Mediaeval and/or Modern European History for examination. The field of the projected dissertation will be included in the Preliminary Examinations.

The Final Examination is intended to test the candidate's knowledge of the special field or fields in which the dissertation has been written, and to discuss plans for publication.

Fields of Specialization Available. Master's and doctoral programs should be developed from seminars and courses available. Research for these and dissertations should grow out of seminars and units offered by the History Department and those departments allied with it.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

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. The designation of the academic year indicates current offerings.

Ancient History

Students should consult pages 42 and 51 where the offerings of the Departments of Greek and Latin are listed.

BRYN MAWR COLLEGE

Mediaeval and Renaissance History

- Mr Brand: *Mediaeval Institutions.*
The Fifth and Sixth Centuries.
The Carolingians.
The Twelfth Century.

Early Modern European History

- Mr Salmon: *French Political Ideas from the Wars of Religion to the Enlightenment.*
Mr Tanis: *The Reformed Reformation in Northern Europe.*

American and British History

- Mr Dudden: *The Progressive Era.*
The New Deal.
The United States in the Second World War.
Mrs Dunn: *Seventeenth Century America.*
Eighteenth Century America.
Mrs Foster: *Parliament in the Early Stuart Period.*
Social and Economic History of the Early Stuart Period.
Mrs Quandt: *Topics in Modern American Intellectual History (1972-73).*
Mr Tanis: *Puritanism and the Great Awakening (1972-73).*

Modern European History

- Mrs Lane: *Modern Germany: National Socialism, Bauhaus.*
Topics in the History of Twentieth Century Europe.
Mr Silvera: *The French Third Republic.*

Methodology and Historiography

- Mr Krausz: *Philosophy of History (1972-73)*
(offered in the Department of Philosophy).
Mr Salmon: *Readings in Eighteenth Century Historiography.*

SELECTED UNDERGRADUATE COURSES

300 level courses may, with additional work, be offered for graduate credit.

- 301a. *Europe in the Twentieth Century*: Mrs Lane.
302. *France, 1559-1661*: Mr Salmon.
303. *Recent History of the United States*: Mrs Quandt.
305a. *Italian City-State in the Renaissance*: Mrs Lane.
311b. *Colonial Towns*: Mrs Dunn.
[314. *History of Science.*]
315a. *Topics in Modern British History*: Mrs Lachs.
325b. *The Life and Works of W. E. B. DuBois*: Mr Aptheker.

History and Philosophy of Science

Director: José María Ferrater Mora *Lic F L*

Advisory Committee: Jane M. Oppenheimer *PHD*

Ernst Berliner *PHD*

Mary Maples Dunn *PHD*

Assistant Professor: Charles A. Culotta *PHD*¹

Lecturer: Mark B. Adams *MA*

Visiting Lecturer: Arnold W. Thackray *PHD*

This program within the Department of History has been developed in collaboration with the American Philosophical Society and the Department of the History and Sociology of Science at the University of Pennsylvania. Courses taken at any of the participating institutions may be credited toward an advanced degree.

Prerequisites. Undergraduate preparation in science, philosophy, and history.

Major and Allied Subjects. The student's major subject will be History of Science, to be supported by intensive work in the field of history related to his special area of interest. Allied subjects may be philosophy and other areas in science and history.

Language Requirements. Students must offer at least one modern foreign language, to be determined by the Department, for the Master's degree. Students who wish to continue work toward the Ph.D. must have completed the examinations in two modern foreign languages to be determined by the Department before taking the Preliminary Examinations.

Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. The program consists of at least two units of work in the History of Science and one unit of work in a related field of History or Philosophy. The Final Examination is written, and is usually four hours in length.

Program and Examinations for the Ph.D. The Preliminary Examinations test the student's competence in four general fields, three

¹On leave, 1972-73.

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in the History of Science and one in a related field of History or Philosophy. The Final Examination covers the field of the dissertation which must be in History of Science.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

Mr Culotta: [*History of Biology.*]

Mr Adams: *Theories of Growth of Science.*

Mr Thackray: *Social History of Science.*

Seminar in History of Medicine: Members and staff of the American Philosophical Society and guest speakers: *Health and Society, Historical Perspectives.*

UNDERGRADUATE COURSES

[313a. *Antiquity to the Renaissance:* Mr Culotta.]

[314. *History of Science:* Mr Culotta.]

Philosophy 265b. *History and Philosophy of Mathematics:*
Mr Weaver.

History of Art

Professors: Charles Mitchell B LITT LITTD *Chairman*
James E. Snyder MFA PHD¹

Associate Professor: Charles G. Dempsey MFA PHD

Assistant Professor: Arthur S. Marks PHD

Lecturer: Dale Kinney MA

Field of Study. The history of Western art from early Christian to modern times.

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

¹On leave, 1972-73.

Language Requirements. 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. Both M.A. and Ph.D. candidates are required to prove by examination their knowledge of two modern foreign languages.

Language skills will be tested by the examinations administered by Bryn Mawr College. Entering students may offer scores of the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Allied Subjects. History, Archaeology, Classics, Modern Languages; others, exceptionally, by arrangement.

Program and Examination for the M.A. (a) Three units of graduate work, one of which may be in an allied field, (b) an extended paper on an approved topic, (c) a written (or written and oral) examination to test the candidate's ability to place this topic in its art-historical context.

Program and Examinations for the Ph.D. Prime emphasis is placed on a program of study and research leading to the dissertation, and students normally begin to work under a personal supervisor soon after entry. The Preliminary Examinations consist of four written papers and an oral examination on four areas of art-history (or on three and one allied subject). After two or three years at Bryn Mawr, students normally go abroad for a period of research on their dissertations.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

Kress Program. The Department participates in the Samuel H. Kress Foundation Fellowship Program.

SEMINARS AND GRADUATE COURSES

Four one-term seminars, on widely spaced topics that change from year to year, are annually given, in addition to individual units of supervised work. Graduate students are sometimes advised to take selected intermediate or advanced undergraduate courses. Topics for 1972-73:

Mr Mitchell: *Mediaeval and Renaissance Drawing* (semester I).

Mr Dempsey: *Venetian Eighteenth Century Art* (semester I).

Mr Marks: *Matisse* (semester II).

Mrs Kinney: *Early Christian Architecture* (semester II).

ADVANCED UNDERGRADUATE COURSES

- 330a. *The Macedonian Renaissance*: Mrs Kinney.
332b. *German Renaissance Art*: Mr Mitchell.
333b. *Flemish Baroque Art*: Mr Dempsey.
334a. *Victorian Painting*: Mr Marks.

History of Religion

Professor: Howard C. Kee PHD *Chairman*

Associate Professor: Samuel Tobias Lachs PHD

Professor of Philosophy: Jean A. Potter PHD

Professor of History and Director of Libraries: James R. Tanis THD

Visiting Lecturer: P. Linwood Urban, Jr. THD

A degree program at the graduate level is not offered in History of Religion. For work in this area, students should consult the offerings of the Department of History. The courses listed below are open to graduate students, and may be taken for graduate credit with permission of the major department.

[210b. *Mediaeval Philosophy*: Miss Potter.]

[300a. *Mediaeval Jewish Thought*: Mr Lachs.]

301a. *Gnosticism*: Mr Kee.

[302a. *Jewish Antecedents of Early Christianity*: Mr Kee.]

302b. *Readings in the Greek New Testament*: Mr Kee.

[303a. *Religion in the Hellenistic World*: Mr Kee.]

[303b. *Myth and History*: Mr Kee.]

304. *Readings in Rabbinic Literature*: Mr Lachs.

309. *Leading Twentieth Century Religious Thinkers*: Mr Urban.

Italian

Lecturers: Nancy Dersofi PHD
Nicholas Patruno MA

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

- 301. *Dante:* Mr Patruno, Miss Dersofi.
- 304a. *Foscolo, Leopardi and Manzoni:* Miss Dersofi.
- 304b. *Literature of the Nineteenth Century:* Mr Patruno.

Latin

Professors: Agnes Kirsopp Michels PHD *Chairman*
Myra L. Uhlfelder PHD

Associate Professor: Russell T. Scott PHD¹

Lecturer: Jon-Henri Damski MA

Prerequisites. An undergraduate major or minor, consisting of at least three years of Latin in college. All graduate students in Latin are expected to have begun the study of Greek.

Allied Subjects. The Department recommends as allied subjects: Greek, Classical Archaeology, Ancient History, Linguistics, or, for students whose special interest is in the mediaeval period, Mediaeval History or a vernacular literature.

Language Requirements. French and German are required for both the M.A. and the Ph.D. Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College.

Program and Examination for the M.A. Candidates will normally offer two units of work in Latin and one unit in an allied field. Stu-

¹On leave, 1972-73.

dents will normally complete the work for the degree in one year, but, in cases in which it seems advisable to supplement the student's undergraduate preparation, a second year may be necessary. Candidates must pass a test in Latin sight translation before being admitted to the Final Examination, which consists of a three-hour written and a one-hour oral examination.

Program and Examinations for the Ph.D. Candidates will normally complete a two-year program of four units of work in Latin and two in an allied field. Three of these units may be those offered for the M.A. degree, which usually forms part of the doctoral program. Candidates should then undertake a program of independent reading planned to enable them to pass the Preliminary Examinations as soon as possible, after which they will concentrate on the dissertation. In some cases it may be advisable to carry one or two more units of work in the third year. The Preliminary Examinations consist of two four-hour written papers on Latin literature; one four-hour written paper on a special field such as a particular period of Roman history, the works of a special author, Mediaeval Latin Literature, Epigraphy, Palaeography, the History of Classical Scholarship; one four-hour written paper in the field of the allied subject; a general oral examination. Students whose major interest is in the mediaeval period will take the two examinations in Latin Literature, one in Mediaeval Latin Literature, and a fourth in a field related to the Middle Ages or to the transmission of the Classics. Before admission to the Preliminary Examinations, all students must pass tests in sight translation of Latin and Greek. The Final (oral) Examination will be on the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

Seminars will be offered in a sequence planned so that candidates for the doctorate will distribute their work over the following four groups. Seminars run for one semester unless noted.

Group I—*Republican and through the Augustan Age:*

Roman Comedy.

Elegy.

Lucretius.

Catullus.

Cicero's Letters and Orations.

Cicero's Philosophical Works.

Historiography from the Later Republic through the Augustan Age (two semesters).

Augustan Poetry (two semesters).

Group II—*Silver Age through the Antonine Period:*

Silver Age Poetry (two semesters).

Tacitus.

Roman Satire.

Petronius and Apuleius.

Group III—*Late Empire and Middle Ages:*

History of the Late Empire.

Literature of the Late Empire.

The Platonic Tradition in the West (Late Empire and Middle Ages).

Latin Literature of the Early Mediaeval Period (two semesters).

Latin Literature of the Twelfth Century (two semesters).

Group IV—

Proseminar: Background Reading.

The Classical Tradition: Scholarship and the Transmission of Texts (two semesters).

Roman Rhetoric (two semesters).

Roman Topography and Monuments.

SELECTED UNDERGRADUATE COURSES

301a. *Vergil's Aeneid:* Mrs Michels.

301b. *Livy and Tacitus:* Mr Damski.

[302a. *Lucretius:* Mr Damski.]

[302b. *Cicero and Caesar:* Mr Scott.]

Mathematics

Professors: John C. Oxtoby MA *Chairman*

Frederic Cunningham, Jr. PHD

Assistant Professor: Martin Avery Snyder PHD

Lecturer: Kenneth Krigelman MA

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

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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 the subject as a whole. Certain courses in Physics, Chemistry or Philosophy (logic) are accepted as allied work.

Language Requirements. Candidates for the M.A. must have a reading knowledge of French, German or Russian. Candidates for the Ph.D. must pass examinations in two of the three: French, German, Russian.

Language skills will be tested either by the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service, or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twenty-four months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. The program consists of three units of work in Mathematics, or in Mathematics and an allied field, and an M.A. paper. 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 Examinations are taken after the student is well advanced and usually consist 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. An oral examination is usually included. The Final Examination is oral and is devoted to the candidate's special field and the subject of the dissertation.

For general degree requirements for the M.A. and Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

At least three graduate courses or seminars are offered each year. Additional courses or 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.

Mr Cunningham:

Functional Analysis.
General Topology.
Linear Spaces.
Theory of Functions.

Mr Krigelman:

Geometry of Manifolds.
Algebraic Topology.
Differential Topology.

Mr Oxtoby:

Ergodic Theory.
Measure Theory.
Point Set Topology.
Theory of Functions.

Mr Snyder:

Applied Mathematics.
Numerical Analysis.
Partial Differential Equations.
Magneto-Hydrodynamics.

Journal Club. A Mathematical Colloquium at the University of Pennsylvania meets approximately every two weeks. Lectures by visiting mathematicians are frequently presented also at Haverford and Swarthmore Colleges.

SELECTED UNDERGRADUATE COURSES

301. *Advanced Calculus:* Mr Cunningham.
 303a. *Introduction to Abstract Algebra:* Mr Krigelman.
 303b. *Topics in Algebra:* Mr Krigelman.
 [307. *Numerical Analysis:* Mr Snyder.]
 308. *Introduction to Applied Mathematics:* Mr Snyder.
 [310a. *Theory of Functions of a Complex Variable:* Mr Snyder.]
 [312b. *Topology:* Mr Cunningham.]
 320. *Real Analysis:* Mr Oxtoby.

Mediaeval Studies

Professor of Philosophy: Jean A. Potter PHD *Chairman*

Professor of English: Robert B. Burlin PHD¹

Professor of Spanish: Joaquín González Muela *D en F L*

Professor of History of Art: Charles Mitchell B LITT LITT D

Professor of History of Art: James E. Snyder PHD²

Professor of Latin: Myra L. Uhlfelder PHD

Associate Professor of History: Charles M. Brand PHD²

Associate Professor of Music: Isabelle Cazeaux PHD

Assistant Professor of German: James W. Scott PHD

Graduate work for the M.A. in the mediaeval field may be done either under a particular department or under the Mediaeval Studies Committee. Doctoral studies in the mediaeval 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 Mediaeval Studies.

Mediaeval work in a particular department will fall under the regulations of that department. For work under the Mediaeval 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 mediaeval field and have a reading knowledge of Latin and two modern languages.

Major and Allied Subjects. Any literature, ancient, mediaeval 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. Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

¹On leave, semester II.

²On leave, 1972-73.

Program and Examination 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 mediaeval 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. Satisfactory Preliminary Examinations in two mediaeval fields and one allied field, written and oral, will be required. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

See under the various departments.

Music

Professor and Director of the Chorus:

Robert L. Goodale B MUSAAGO¹ *Chairman*

Professor and Director of Ensemble Groups: Agi Jambor MA

Associate Professor: Isabelle Cazeaux PHD *Acting Chairman, semester II.*

Visiting Lecturers: John H. Davison PHD

Edward A. Lippman PHD

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.

¹On leave, semester II.

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Allied Subjects. Any modern language or literature, History, History of Art, History of Religion, Philosophy.

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. Language skills will be tested by the examinations administered by Bryn Mawr College.

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 Examinations consist 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.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS AND GRADUATE COURSES

Mr Goodale:

Paul Hindemith and Charles Ives: A Study in Contrasts
(semester I).

Mme Jambor:

The Interpretation of Music.

Mr Lippman:

Studies in Nineteenth Century Music.

Miss Cazeaux:

Musicology.

SELECTED UNDERGRADUATE COURSES

202. *Advanced Theory and Analysis:* Mr Goodale.

[301. *Music of the Twentieth Century:* Mr Goodale.]

[302a. *Mediaeval and Early Renaissance Music:* Miss Cazeaux.]

[302b. *Late Renaissance and Early Baroque Music:* Miss Cazeaux.]

[303b. *Orchestration:* Mr Goodale.]

305a. *Free Composition:* Mr Goodale.

306b. *Opera and Music Drama:* Miss Cazeaux.

Philosophy

Professors: José María Ferrater Mora *Lic F L Chairman*

George L. Kline PHD

Jean A. Potter PHD

Isabel S. Stearns PHD¹

Associate Professor: Mary Patterson McPherson PHD

Dean of the Undergraduate College

Assistant Professors: Michael Krausz PHD

George E. Weaver, Jr. PHD

Lecturer: John J. Mulhern PHD

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. For the M.A., one modern language. French and German for the Ph.D. In special cases, with the recommendation of the Department, a substitution may be made of one other modern language.

Language skills will be tested by the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

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 Examinations consist of four written papers in the major and allied fields and an oral examination. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

¹On leave, 1972-73.

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

Miss Stearns: [*Metaphysics.*]

[*Epistemology.*]

Mr Ferrater Mora: *Phenomenology.*

A study of Husserl's *Idee.*

[*Kant.*]

[*History of Philosophic Concepts.*]

Mr Kline: *Whitehead.*

A study of topics drawn from *The Concept of Nature, Science and the Modern World, Process and Reality, and Adventures of Ideas.*

[*Ethics.*]

[*Hegel:*

An intensive study of the *Phenomenology of Spirit* and the *Philosophy of Right.*]

Miss Potter: *Mediaeval Philosophy.*

Studies in selected problems and texts in mediaeval philosophical thought.

[*Continental Rationalism.*]

[*Philosophy of Religion.*]

Mr Weaver: *Logic.*

Introduction to the concepts, results and presuppositions of deductive logic. Special emphasis will be given to the interrelationships between the semantic and combinatorial aspects of formal logic and the status of logical laws.

[*Introduction to Set Theory and Logic.*]

[*Completeness and Decidability.*]

Mr Krausz: *Philosophy of History.*

A study of concepts of historical understanding, objectivity and value judgments in history; causal judgments in history, and the methodological individualism/holism controversy. Among the speculative philosophers, the writings of Hegel, Marx, Spengler, Toynbee, and Niebuhr are examined.

[*Philosophy of Mind.*]

[*Theory of Inquiry.*]

Mr Mulhern: *Plato.*

The Early Dialogues of Plato.

Journal Club. Graduate students have the privilege of becoming auxiliary members of the Fullerton Club. The club meets once a

month. Papers are read by members of the faculty of Bryn Mawr and by visiting lecturers, as well as by members of the faculties of nearby colleges and universities.

SELECTED UNDERGRADUATE COURSES

- 215a. *Kant*: Mr Ferrater Mora.
 250a. *Logic*: Mr Weaver.
 265b. *History and Philosophy of Mathematics*: Mr Weaver.
 304a. *Russian Philosophy*: Mr Kline.
 304b. *Marx and Russian Marxism*: Mr Kline.
 306a. *Existential Philosophy*: Mr Ferrater Mora.
 307a. *Aesthetics*: Mr Krausz.
 350d. *Concepts of Time*: Mr Kline.

Physics

Professors: Rosalie C. Hoyt PHD *Chairman*
 John R. Pruett¹

Assistant Professors: Alfonso M. Albano PHD
 Stephen R. Smith PHD

Lecturer: Walter C. Michels PHD *Professor Emeritus*

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 Aptitude Test and Advanced Test of the Graduate Record Examinations.

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 is accepted as adequate for the doctorate in Physics, then 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.

¹On leave, semester II.

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Language Requirements. For the M.A. and the Ph.D. degrees, two languages are required; one, French, German or Russian; the second, "computer language," including FORTRAN. Language skills will be tested by the examinations administered by Bryn Mawr College.

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 Examinations 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 Examinations are 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 these examinations and candidates for the Ph.D. are urged to submit themselves for examination at this stage of their work. The examinations 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. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

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

Miss Hoyt, Mr Michels, Mr Pruett, Mr Smith.

Theoretical Physics

Mr Smith: *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, Mr Albano: *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 and Biophysics.*

Interatomic and intermolecular forces, vibrational and rotational state of molecules, energy transfer through collisions. Dynamical properties of biological membranes, the biophysics of photosynthesis and photosensitive receptors. Prerequisite: Quantum Mechanics.

Mr Smith: *Physics of the Solid State.*

Classification and characteristics of solids, theory of mechanical, electrical, thermal, and magnetic properties. Prerequisite: 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.

Mr Albano: *Statistical Mechanics.*

Classical kinetic theory and transport phenomena. Ensembles in classical and quantum statistical mechanics. Selected applications. Prerequisite: Quantum Mechanics.

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

SELECTED UNDERGRADUATE COURSES

- 301a. *Classical Mechanics:* Mr Smith.
303b. *Thermal Properties of Matter:* Mr Albano.
304. *Introduction to Theoretical Physics:* Mr Albano,
Mr Michels.

Political Science

The Caroline McCormick Slade Department of Political Science

Professors: Melville T. Kennedy, Jr. PHD *Chairman*
Gertrude C. K. Leighton AB JD¹

President of the College: Harris L. Wofford, Jr. AB LL B

Associate Professor: Charles E. Frye PHD

Assistant Professors: Marc H. Ross PHD
Stephen Salkever PHD

Visiting Lecturer: Paul Sigmund PHD

Prerequisites. A good undergraduate training in political science and related subjects. Scores of the Graduate Record Examination Aptitude Test and Advanced Test are required in applications for admission.

Major and Allied Fields. The major fields offered 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. One modern foreign language for the M.A. Two foreign languages (only one need be modern), or one

¹On partial leave, semester I.

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modern language and statistics for the Ph.D. Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. The statistics requirement may be satisfied by passing an approved course in statistics.

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 Examinations for the Ph.D. Candidates are expected to offer four fields, one of them being the field in which the dissertation is written. These fields are tested by preliminary written and oral examinations. An oral Final Examination will cover fields related to the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS

Mr Frye:

[*European Comparative Politics.*]

Personality and Comparative Politics.

Mr Kennedy:

International Politics.

Topics in Politics of China, Japan, India.

Miss Leighton:

International Law.

Law, Psychodynamic Theories of Personality and Psychiatry.

Mr Ross:

American Politics.

Urban Politics.

Mr Salkever:

[*Constitutional Law.*]

Topics in Political Philosophy and Theory.

SELECTED UNDERGRADUATE COURSES

[218a. *Community Politics*: Mr Ross.]

230b. *Political Behavior*: Mr Ross.

[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.]

[307b. *Modern Germany*: Mr Frye.]

310a. *Comparative Political Culture: Political Socialization*:
Mr Frye.

311b. *Theory and Practice in Political Philosophy*: Mr Salkever.

312b. *China, Japan and India: Problems in Modernization*:
Mr Kennedy.

[313b. *Problems in Constitutional Law*.]

316b. *Ethnic Group Politics: Concepts and Process*: Mr Ross.

312a. *Latin American Affairs*: Mr. Sigmund.

Psychology

Professors: Richard C. Gonzalez PHD *Chairman*
Howard S. Hoffman PHD

Adjunct Professor: Larry Stein PHD

Associate Professor: Matthew Yarczower PHD

Assistant Professors: Clark McCauley, Jr. PHD
Earl Thomas PHD

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 Aptitude Test and Advanced Test of the Graduate Record Examinations.

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, Chemistry, Mathematics, Philosophy and Physics.

Language Requirements. Candidates for the M.A. must pass an examination in one of the following languages: French, German, Russian. Candidates for the Ph.D. must offer two foreign languages: French and German (or some other foreign language with permission of the Department), or one foreign language and sta-

tistics. The statistics requirement will be tested by the Department. Language skills will be tested by the examinations administered by 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. 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. Ph.D. candidates are expected to devote a large portion of their time to supervised research. In the first year, the research is done under the close supervision of the candidate's faculty advisor; a written report of the year's research activities (the form and content of which are determined by the candidate and his advisor) is submitted to the Department; and an oral examination dealing with the paper and related topics is conducted by the candidate's advisor and at least three other members of the Department. In addition to research, candidates, in their first two years of residence, take the four one-semester graduate courses listed below (or, if they elect to do so, a written examination in the subject matter instead of any one or all of the courses). The Preliminary Examinations, which should be taken before the beginning of the third year, consist of three written examinations of four hours each and an oral examination of one to two hours. The written examinations are in the following areas: Learning and Motivation, Physiological Psychology, and Social Psychology. The oral examination involves a defense by the candidate of a research proposal he has prepared and submitted in advance of the examination. Work beyond the Preliminary Examinations consists of seminars in selected topics and of dissertation research. The Final Oral Examination deals with the dissertation and the field in which it was written.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

GRADUATE COURSES

Mr Gonzalez:

Learning Theory.

Mr Hoffman:

Statistics.

Mr McCauley:

Experimental-Social Psychology.

Mr Stein and Mr Thomas:

Physiological Psychology.

SEMINARS

Seminars are offered on specialized topics in the areas of experimental, physiological and social psychology.

SELECTED UNDERGRADUATE COURSES

- 201a. *Comparative Psychology*: Mr Yarczower.
- 201b. *Animal Learning*: Mr Gonzalez.
- 202a. *Motivation*: Mr Gonzalez.
- 202b. *Language and Cognition*: Mr Yarczower.
- 301a. *Physiological Psychology*: Mr Thomas.
- 305a. *Sensation and Perception*: Mr Hoffman.

Russian

Professor: Frances de Graaff PHD

Associate Professor: Ruth L. Pearce PHD *Chairman*

Professor of Philosophy: George L. Kline PHD

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, Russian Philosophy.

Language Requirements. For the M.A., French or German. For the Ph.D., French, German and one Slavic language other than Russian. Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

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.

Examinations for the Ph.D. The Preliminary Examinations consist of four written papers, one of which must be taken in an allied field, and an oral examination. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS

Seminars offered are selected from the following:

Miss de Graaff:

Serbo-Croatian Language and Literature.

Pushkin and Lermontov.

Chekhov and Gorki.

Mrs Pearce:

History of the Russian Language.

Old Church Slavonic.

SELECTED UNDERGRADUATE COURSES

302. *Pushkin and His Time*: Miss de Graaff.

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

305. *Advanced Russian Grammar*: Mrs Pearce.

Philosophy 304a. *Russian Philosophy*: Mr Kline.

Philosophy 304b. *Marx and Russian Marxism*: Mr Kline.

Cooperation with the University of Pennsylvania. Attention is drawn to the courses offered by the Department of Slavic Languages at the University of Pennsylvania. Under the Reciprocal Plan, students may register for a unit of work at the University for credit toward an advanced degree.

Sociology

Professor: Eugene V. Schneider PH D¹ *Chairman*

Assistant Professors: William R. F. Phillips PH D

Judith R. Porter PH D *Acting Chairman,*
semester II.

Lecturer: Robert E. Washington M A

¹On leave, semester II.

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Prerequisites. An 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.

Major and Allied Subjects. Students may wish to take some work in related fields: Anthropology, Economics, Psychology, Political Science, 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.

Language and Statistics Requirement. Candidates for the M.A. must offer one modern language and statistics. Candidates for the Ph.D. degree must offer two modern foreign languages (usually French and German) or one modern foreign language and statistics. The statistics requirement will be tested by the Department, or may be met by passing a graduate course in statistics.

Language skills will be tested by the examinations administered by Bryn Mawr College. Entering students may offer scores of the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service taken within twelve months of the date on which they begin graduate work at Bryn Mawr College.

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. The Preliminary Examinations 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 General Sociology, Sociological Theory, and two special fields, one of which may be an allied field. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS

Seminars will be given in special branches of Sociology, such as:

<i>Sociological Theory</i>	<i>Industrial Sociology</i>
<i>Social Stratification</i>	<i>Race Relations</i>
<i>Sociology of Religion</i>	<i>Sociology of Poverty</i>
<i>Personality and</i>	<i>Political Sociology</i>
<i>Social Structure</i>	<i>Sociology of Developing</i>
<i>Sociology of Knowledge</i>	<i>Countries</i>

Under exceptional circumstances a student may be registered for an advanced undergraduate course which with additional work may be accepted for graduate credit.

Spanish

Professors: Willard F. King PHD¹ *Chairman*
Joaquín González Muela *D en F L*

Assistant Professor: Eleanor K. Paucker PHD

Lecturer: John F. Deredita M PHIL

Professor of Philosophy: José María Ferrater Mora *Lic F L*

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 Aptitude Test and Advanced Test of the Graduate Record Examinations. Candidates are urged to arrange for a personal interview with a member of the Department whenever possible.

Allied Subjects. Any literature, ancient or modern, including Mediaeval Latin Literature; European or Spanish-American History; Classical or Romance Philology; Spanish-American Literature.

Language Requirements. For the M.A. either German or one Romance language other than Spanish. 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 must be included in the graduate program.

Language skills may be tested by either the Graduate School Foreign Language Test (GSFLT) of the Educational Testing Service or the examinations administered by Bryn Mawr College. Entering students may offer scores of the GSFLT taken within twelve months of the date on which they begin graduate work at Bryn Mawr.

Program and Examination for the M.A. The program consists of three units of graduate work in Spanish or two units of graduate work in Spanish and one other 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 Examinations consist of four written papers, one of which must be taken in an allied field,

¹On leave, semester II.

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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. The Final Examination will cover the field of the dissertation.

For general degree requirements for the M.A. and the Ph.D., see pages 13-15.

SEMINARS

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:

[*The Mediaeval Castilian Epic and Lyric.*]

[*The History of the Spanish Language.*]

Ideological Currents in Renaissance Spain (semester I).

[*Cervantes: Drama, Poetry and Novel* (with the exception of *Don Quijote*).]

[*Prose Fiction of the Golden Age.*]

Poetry of the Golden Age.

Topic for 1972-73: Popular and Elite Styles in Garcilaso, San Juan, Lope, Quevedo, and Góngora (semester II).

[*Studies in the Golden Age Theater.*]

[*The Eighteenth Century.*]

Studies in Nineteenth Century Spanish Literature.

Topics for 1972-73: Romanticism (semester I).

The Urban Novel (semester II).

Studies in Spanish American Literature.

Topic to be announced (semester II).

Studies in Twentieth Century Spanish Literature.

Topic for 1972-73: The Language of Poetry since 1950 (semester I).

SELECTED UNDERGRADUATE COURSES

[302a. *Mediaeval Spanish Literature.*]

[303a. *The Modern Novel in Spain and Spanish America:*
Mrs King.]

[303b. *Modern Poetry in Spain and Spanish America:*
Mr González Muela.]

304a. *Cervantes:* Mrs King.

[304b. *Poetry and Drama of the Golden Age:* Mrs King.]

Fees

Application (payable by citizens of the United States and Canada and foreign students living in the United States): \$15.

Tuition

Full-time students: \$2250.

Part-time students:

2 academic units \$1500 a year (or \$775 a semester).

1 academic unit \$900 a year (or \$450 a semester).

Course in Reading German: \$25 a semester.

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

Continuing enrollment (see page 8): \$75 a semester, except for students using Bryn Mawr College laboratories for dissertation research. In these cases, fees will be determined in consultation with the major department.

Payment of Fees

No reduction or refund of the tuition fee will be made on account of absence, illness or withdrawal after classes have begun, dismissal or for any other reason, except involuntary service in the armed forces of the United States.

Students whose fees are not paid before October 1 in the first semester and before February 15 in the second semester will not be permitted to continue in residence or to attend classes. Degrees will not be awarded to any student owing money to the College, Book Shop, or other college facility.

The Education Plan of monthly payment in cooperation with the Bryn Mawr Trust Company is available for those who prefer to pay fees in monthly installments. Direct correspondence to the Comptroller of the College.

Summary of Expenses for the Academic Year

Regular

Tuition Fee	\$2250
Residence in graduate student housing	1400

Contingent

Application Fee	\$ 15
Continuing Enrollment Fee	150
Course in Reading German	50
Dispensary Fee	25
Health Insurance (United States citizens)	40
Health Insurance (foreign students)	70
Graduation Fee for all Graduate Degrees	25
Charge for Microfilming Ph.D. Dissertation	30
Late Registration Fee	10

Faced with the rising costs of higher education, the College has had to raise tuition each of the last two years. Further increases may be expected.

Exclusion

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 will not be refunded or remitted in whole or in part: fellowships and scholarships will be cancelled.

Fellowships and Graduate Scholarships

Fellowships and graduate scholarships are provided from the general funds of the College, from the gifts of alumnae and other generous donors, and from government agencies and private foundations. The majority of these awards are made on the basis of an annual competition. Many of these awards are available to both men and women. Some may be granted only to women. Fellowships carry a stipend of \$2000 in addition to tuition and are available only to students who are citizens of the United States or Canada and who have completed one full year of graduate work. Graduate scholarships have a value of \$1500 in addition to tuition and may be held by citizens and non-citizens and by students at all levels of graduate work. Other awards vary in value.

Application

Application from citizens of the United States and Canada should be made to the Dean of the Graduate School of Arts and Sciences and must be filed complete not later than February 1. In writing for forms applicants should state their fields of concentration. Applications from foreign students must be received not later than January 25. Scores of the Test of English as a Foreign Language or the examination of the English Language Institute of the University of Michigan must be included. Therefore the TOEFL must be taken by the previous October (see page 7).

All awards will be announced in March.

Fellowships in the Award or Nomination of the College

Bryn Mawr College Fellowships of \$2000 in addition to tuition are offered annually in Anthropology, Biology, Chemistry, Classical and Near Eastern Archaeology, Economics, Education and Child Development, English, French, Geology, German, Greek, History, History and Philosophy of Science, History of Art, Latin, Mathematics, Mediaeval Studies, Music, Philosophy, Physics, Political Science, Psychology, Russian, Sociology, and Spanish.

Alumnae Association Fellowships. Alumnae Association Fellowships are provided from the contributions of former graduate students to the Alumnae Fund, from the Alumnae Regional Scholarship Committee of New York and Southern Connecticut, and from the Bryn Mawr Booksale in Cambridge.

Marion Louise Ament Fellowship. Graduate fellowships in Spanish are occasionally awarded from the fund established in 1966 in honor of Marion Neustadt, Class of 1944.

The Theodore N. Ely Fund. A fellowship or scholarship in Art or Archaeology is awarded to a woman graduate student from the interest on this fund, which was established in 1959 by bequest of Katrina Ely Tiffany, Class of 1897.

The Margaret Gilman Fund. A 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 Howard Lehman Goodhart Fellowship is awarded to an advanced student, man or woman, in Mediaeval Studies.

The Helen Schaeffer Huff Memorial Research 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.

The S. Maude Kaemmerling Scholarship was established in 1959 by 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 for men and women.

The Samuel H. Kress Foundation Fellowships in varying amounts are awarded to advanced men and women graduate students in History of Art.

The Katharine Elizabeth McBride Fellowship. In the 75th Anniversary Year a fund for a graduate fellowship in honor of Katharine McBride was established by certain 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 woman candidate for the Ph.D. degree who is about to complete two years or more of graduate work.

National Science Foundation Biochemistry Development Fellowships and a *Bryn Mawr College Fellowship* are awarded to men and women within the Department of Biology and Chemistry who are following a program in Biochemistry.

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.

The Ida H. Ogilvie Fellowships in Geology are awarded to men and women 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 public 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 woman graduate student working toward the doctorate. This award may be made to a beginning graduate student.

Scholarships and Fellowships under the Plan for the Coordination of the Sciences. The departments of the natural sciences and mathematics administer a fund for the Coordination of the Sciences, given to the College in 1935 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.

From this fund, the Committee for the Coordination of the Sciences awards fellowships, scholarships, assistantships, post-doctoral research fellowships or other grants as seem appropriate.

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.

Travelling Fellowships

The Fanny Bullock Workman Travelling Fellowship for a year of study or research abroad was established in 1927 by request of Fanny Bullock Workman and by gift of her husband, Dr. W. Hunter

Workman. It is awarded to a woman who is a candidate for the degree of Doctor of Philosophy at Bryn Mawr College and 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 in memory of her mother, is to be applied to the expense of study and residence for one year at a German university. It is awarded annually to a woman who has completed at least one year of graduate study at Bryn Mawr College, and who shows ability to conduct independent investigations in the fields of Teutonic Philology or German Literature. 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 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.

Graduate Scholarships

Bryn Mawr College Graduate Scholarships of \$1500 each in addition to tuition are offered annually to men and women for work in any department of the Graduate School of Arts and Sciences.

Scholarships for Foreign Students. These scholarships are designated for foreign students who have excelled in their university studies. Applicants must have had three or four years of university training. Each scholarship carries a stipend which covers full tuition and residence in graduate student housing during the academic year. (Meals during vacations are not included and students will need to provide their own funds for these and other expenses.) Scholarship holders are expected to carry a full program of graduate work and to attend regularly the courses for which they are registered. Work is given in seminars or 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.

The Marguerite N. Farley Scholarships for Foreign Students, of the value of \$1500 each in addition to tuition, are offered to students from any country outside the United States and Canada. Occasionally a fellowship is awarded from this fund to a foreign student who has completed at least one year at Bryn Mawr.

A special British Scholarship, of the value of \$1500 in addition to tuition, is awarded to students from the United Kingdom sponsored by The English-Speaking Union.

Special Foreign Scholarships for French, German, Italian and Spanish, of \$1600 each in addition to tuition, have been established for students whose languages form a 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 made in memory of Miguel Catalan, distinguished Spanish physicist and friend of Bryn Mawr.

Duties of Fellows and Scholars

Fellows and Graduate Scholars are required to carry a full academic program at Bryn Mawr College. They are expected to attend official functions and to perform a limited amount of service for the College. Fellows are not permitted to accept other appointments. Scholars, with the permission of the Dean of the Graduate School of Arts and Sciences, may undertake a limited amount of paid work. Each Travelling Fellow is asked to present a written report of the work done during the fellowship year. This report should be sent about the first of March to the Dean of the Graduate School of Arts and Sciences for transmittal to the student's department.

Graduate Assistantships

Assistantships are available in many departments. These positions carry salaries of \$2500-\$2700 for half-time work, \$1700-\$1800 for one-third time work, and include tuition without fee. The duties differ with departments. In departments of science, assistantships provide teaching and laboratory experience.

Research Assistantships are available in the Department of Biology, Chemistry, Geology, Physics and Psychology.

Internships and Field Work Placements. The Department of Education and Child Development offers each year one internship, with stipend, in school psychology. The intern is placed in the Child Study Institute and receives individual supervision there. Supervised practicum experience at the Institute is also available, usually without stipend.

Supervised field work placements, with stipend, are available in school counseling. These are open to advanced, highly qualified

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candidates in the school counseling program sequence. Supervised practicum experience in counseling is also available, usually without stipend.

Tuition Grants

Tuition grants are available for full-time and part-time students. Gifts from District III of the Alumnae Association and the Bryn Mawr Club of Princeton have increased the number of these grants to women.

A grant from the Samuel S. Fels Fund, for three years beginning in 1971, has augmented the funds available for men and women who are unable to undertake full-time work.

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 a committee of which the President of the College is chairman.

Loan Funds

Applications for loans are made on special forms which can be obtained from the Office of Admissions and Awards after a student has been admitted to the Graduate School of Arts and Sciences.

Dates: Applications are due April 1 for consideration in the spring and September 1 for loans to be made in the early fall.

National Defense Student Loan Program—NDEA Title II. Loans up to \$2500 a year are available to qualified graduate students under this Title. They are open to students registered for at least two units of graduate work. In certain cases, partial loan cancellation is offered.

The Students' Loan Fund of the Alumnae Association of Bryn Mawr College was established 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 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 lent 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 Office of Admissions and Awards of the Graduate School of Arts and Sciences.

The Mary Hill Swope Loan Fund, established in 1945 by a gift of Mrs. Gerard Swope (Mary Hill, A.B. 1896) and the *Gerard and Mary Hill Swope Loan Fund*, established in 1962, provide loan funds to students up to a maximum of \$500 annually. No interest is charged while the student is at Bryn Mawr. Principal is to be repaid within five years of the time the student leaves the College, at a rate of twenty per cent per year. The interest rate is three per cent.

Office of Career Planning and Placement

The Office of Career Planning and Placement is concerned with student and alumni career, summer, and self-help job interests.

Graduate students may consult on careers to match their interests and experience, for information on specific employers and current job openings, and on techniques of job-hunting. Career Planning and Placement also collects, maintains, and makes available to employers, credentials including biographical data and faculty and employer references for those who register with the office.

Students may also obtain part-time employment during the year both on- and off-campus through this office. Some of the jobs available are clerical, library work, typing, waitressing, childcare, and sales. Information on summer jobs and/or part-time work during the academic year is collected and a newsletter sent out to students periodically. The staff of the office is available for consultation on any of these programs.

Government regulations severely limit the employment of students of foreign citizenship in the United States.

Graduate Student Council

The Graduate Student Council, composed of one representative elected annually from each department offering a graduate program, serves as a vehicle through which graduate students may voice their concerns and needs to the faculty and administration. When appropriate, the council also initiates and carries out specific programs to meet these needs.

Graduate students work primarily in one department, so that the council provides a means of communicating with students in all departments. Council meetings are held at least once a month in the Graduate Lounge located in the M. Carey Thomas Library. Graduate student opinion is sometimes solicited through questionnaires, so that the council may best represent various opinions.

The council works through committees such as those concerned with the Library and with graduate student housing. In addition, representatives of the council sit on various college committees.

Graduate Student Housing

Housing on campus is provided for about sixty-five graduate students in the Graduate Residence Center, Batten House, and the Annex. There is a separate bedroom for each student. A few double rooms in Batten House can accommodate married couples, provided both are graduate students at Bryn Mawr. Rooms are furnished except for rugs and curtains. Blankets are provided but students should bring towels and bed linen. (Local rental services will supply sheets and pillowcases for a modest fee. Arrangements can be made on arrival.) Private telephones cannot be installed in campus housing. Because of college fire regulations, smoking is not permitted in the bedrooms. There are smokers on certain floors. The dining room, available to all resident students, is located in the Center.

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 to the Office of the Graduate School of Arts and Sciences with a deposit of ten dollars. The deposit will be deducted from the residence fee; it will be refunded only if the student cannot be accommodated or has been called into service in the armed forces of the United States.

A student who has reserved a room will be held responsible for the residence charge unless notice of withdrawal is sent in writing to the Dean of the Graduate School of Arts and Sciences before August 15, or unless he is drafted for military service.

The regular charge for residence (room, board and health service) for graduate students is \$1400 a year, payable one half early in the first semester and the other half early in the second. Residence on campus is provided from the opening of College in the fall until Commencement Day; but meals are not served, and health service is not available during Christmas and spring vacations. Baggage will be accepted at the College after August 30. It should be sent prepaid, addressed to the proper residence hall, and marked with the owner's name.

The College does not maintain a housing bureau. Students may consult the Graduate Student Off-Campus Housing Information Service in Room 4, Thomas Library, between 9 a.m. and 1 p.m.

Health

Medical Services

The College maintains an 18-bed infirmary with a staff of physicians and nurses. The infirmary is open when College is in session. The college physicians may be consulted without charge by students residing in campus housing and by students living off campus 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 residence charge paid by graduate students living in campus housing entitles them 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 the 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 \$15.00 for each day in the Infirmary. In case of contagious disease, if special nursing is necessary, the student must meet the expense.

Graduate students who do not live in campus housing may pay a \$25.00 fee which entitles them to dispensary care and consultation with the college physicians. The fee is not billed automatically and is not covered by scholarship or other grants. The dispensary fee is to be paid in the Comptroller's Office where a dispensary card is issued. Non-resident students are not given bed care in the Infirmary except under exceptional conditions at a charge of \$15.00 per day.

The College maintains a counseling and diagnostic service staffed by a social worker, psychologist and three psychiatrists. They are at the Infirmary on a part-time basis. All students eligible for dispensary care may use this service. The counseling service offers confidential consultation and discussion of personal and emotional problems. Definitive and long range psychotherapy is not available. A charge is made for visits in excess of five.

Medical Requirements

All graduate students, after admission, must file a medical history and health evaluation form with the Infirmary. There are no exceptions to this rule.

In addition to a statement of health, signed by a physician, the following are required: small pox vaccination within 3 years of admission; current tetanus and polio immunizations; proof of freedom from active tuberculosis based on either a negative skin test to

tuberculosis, or in the presence of a positive test, a normal chest x-ray within 6 months of admission.

Insurance

All graduate students of Bryn Mawr College are entitled to subscribe to the Student's Health Care Plan, which provides for a substantial proportion of hospital care and medical fees. The premium for this insurance is \$40.00 for a full year starting in September. Students should apply to the Comptroller of the College.

Foreign Students. The College also makes available a policy which provides fuller coverage of medical, surgical, and hospital costs. This insurance is required of all 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 \$70.00 for a twelve-month period, starting in September.

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for the Academic Year 1972-73

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¹On leave, 1972-73.

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¹On leave, 1972-73.

²On leave, semester II, 1972-73.

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- Richard Hamilton PHD (University of Michigan) *Assistant Professor of Greek and Latin*

¹On leave, 1972-73.

²On leave, semester I, 1972-73.

³On leave, semester II, 1972-1973.

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- Howard S. Hoffman PHD (University of Connecticut) *Professor of Psychology*
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¹ On leave, semester II, 1972-73.

² On leave, 1972-73.

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- Michael Krausz PHD (University of Toronto) *Assistant Professor of Philosophy*
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¹On leave, semester II, 1972-73.

²On partial leave, semester I, 1972-73.

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¹ On leave, semester II, 1972-73.

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- Stephen R. Smith PHD (Massachusetts Institute of Technology) *Assistant Professor of Physics*

¹On leave, semester II, 1972-73.

²On leave, 1972-73.

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- James E. Snyder PHD (Princeton University) *Professor of History of Art*²
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- Faye P. Soffen EDD (University of Pennsylvania) *Assistant Professor of Education and Child Development*
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- Dorothy Wyckoff PHD (Bryn Mawr College) *Professor Emeritus of Geology*

¹On leave, 1972-73.

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John F. Howkins MD (Columbia University, College of Physicians and Surgeons) *Consulting Psychiatrist*

Howard B. Smith MD (Jefferson Medical College) *Consulting Psychiatrist*

¹On leave, semester II, 1972-73.

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ment*

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Gertrude Reed MSLS (Rutgers University) *Reference Librarian*

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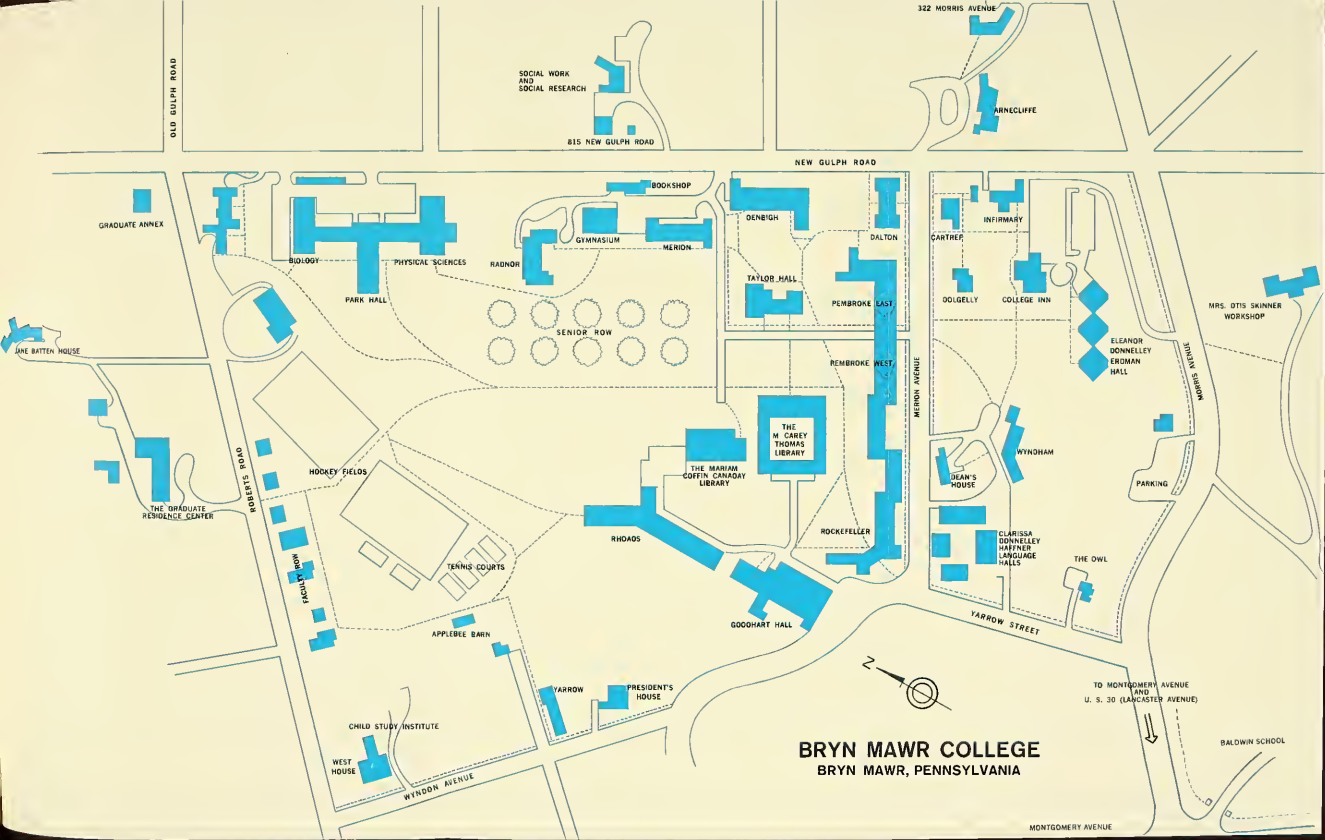
Mr Mitchell

Mr Ross

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BRYN MAWR COLLEGE
 BRYN MAWR, PENNSYLVANIA

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 30th Street Station in Philadelphia and from there the Paoli Local to Bryn Mawr, or take a taxi or the Bennett Limousine Service 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 exit number 36, Pa. #320, Gulph Mills, which is 3.5 miles east of the toll gate; continue into 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 Penn Central 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.



1972-73

Bryn Mawr College Calendar

BRYN
MAWR

Undergraduate College

1972-73

Bryn Mawr College Calendar

Undergraduate Courses

Issue for the Session of 1972-73

August 1972, Volume LXV, Number 3

ENVIRONMENT The pages of this catalogue were printed on recycled paper manufactured by the Bergstrom Paper Company of Neenah, Wisconsin. At Bryn Mawr in March of 1971 a Life with Earth Committee was organized by Bryn Mawr students for working with community groups on environmental problems.

Bryn Mawr College Calendar. Published December, July, August and September by Bryn Mawr College, Bryn Mawr, Pa. 19010.

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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 twelve when the College is in session.

Correspondence

The Post Office address is Bryn Mawr College, Bryn Mawr, Pennsylvania 19010. Telephone: 215 LA 5-1000.

Correspondence about 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 of Arts and Sciences

Admission and graduate scholarships

The Dean of the Graduate School of Social Work and Social Research

Admission and graduate scholarships

The Director of Halls

Rooms in the halls of residence

The Comptroller

Payment of bills

The Director of Office of Career Planning and Placement

Recommendations for positions and inquiries about students' self-help

The Alumnae Association

Regional scholarships and loan fund

Academic Schedule 1972-73

- 1972 *First Semester*
- September 3.* Halls of residence open to entering class at 8 a.m.
Registration of entering undergraduate students.
- September 5.* Deferred examinations begin.
- September 6.* Halls of residence open to returning undergraduates at 8 a.m.
Registration of returning students.
- September 7.* Work of the 88th academic year begins at 9 a.m.
- September 9.* Deferred examinations end.
- September 16.* French examinations for undergraduates.
- September 23.* German examinations for undergraduates.
- September 30.* Italian, Spanish and Hebrew examinations for undergraduates.
- October 7.* Greek, Latin and Russian examinations for undergraduates.
- October 14.* Mathematics examinations for undergraduates.
- October 20.* Fall vacation begins after last class.
- October 25.* Fall vacation ends at 9 a.m.
- November 22.* Thanksgiving Holiday begins after last class.
- November 27.* Thanksgiving Holiday ends at 9 a.m.
- December 12.* Last day of classes.
- December 13-14.* Review Period.
- December 14.* Written work due.
- December 15.* College examinations begin.
- December 16.* Language examinations for Seniors Conditioned.
- December 20.* College examinations end.
Winter vacation begins.

<i>1973</i>	<i>Second Semester</i>
<i>January 15.</i>	Work of the Second Semester begins at 9 a.m.
<i>March 9.</i>	Spring vacation begins after last class.
<i>March 19.</i>	Spring vacation ends at 9 a.m. Deferred examinations begin.
<i>March 24.</i>	Deferred examinations end. Greek, Latin, Russian and Mathematics examinations for undergraduates.
<i>March 31.</i>	French and German examinations for undergraduates.
<i>April 7.</i>	Italian, Spanish and Hebrew examinations for undergraduates.
<i>April 13-15.</i>	Geology Field Trip.
<i>April 27.</i>	Last day of classes.
<i>April 28-May 1.</i>	Review period.
<i>May 1.</i>	Written work due.
<i>May 2-11.</i>	College examinations.
<i>May 14.</i>	Conferring of degrees and close of the 88th academic year.
<i>May 18-20.</i>	Alumnae Weekend.

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The notations throughout this section refer to the following footnotes:

1. On sabbatical leave, 1972-73
2. On sabbatical leave, Semester II, 1972-73
3. On sabbatical leave, Semester I, 1972-73
4. On partial leave of absence, Semester I, 1972-73
5. On leave of absence, 1972-73
6. On leave of absence with Junior Faculty Research Award, 1972-73

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- Thomas Jackson, PH.D. (Yale University), *Associate Professor of English*
- Fritz Janschka, Akad. Maler (Akademie der Bildenden Künste), *Associate Professor of Fine Art*
- M. Pauline Jones, PH.D. (Bryn Mawr College), *Associate Professor of French*
- Joseph Kramer, PH.D. (Princeton University), *Associate Professor of English*
- Samuel Tobias Lachs, PH.D. (Dropsie University), *Associate Professor of History of Religion*
- Barbara M. Lane, PH.D. (Harvard University), *Associate Professor of History*²
- Susan E. Maxfield, M.S. (Syracuse University), *Associate Professor of Education and Child Development and Director of the Thorne School*
- Mary Patterson McPherson, PH.D. (Bryn Mawr College), *Dean of the College and Associate Professor of Philosophy*
- Dolores G. Norton, PH.D. (Bryn Mawr College), *Associate Professor of Social Work and Social Research*
- Carl Nylander, PH.D. (Uppsala University), *Associate Professor of Classical and Near Eastern Archaeology*
- Ruth L. Pearce, PH.D. (University of Pennsylvania), *Associate Professor of Russian*
- Kyle Phillips, Jr., PH.D. (Princeton University), *Associate Professor of Classical and Near Eastern Archaeology*

- Lucian B. Platt, PH.D. (Yale University), *Associate Professor of Geology*
Jeanne C. Pollock, M.S.W. (University of Pennsylvania), *Associate Professor of Social Work and Social Research*³
Russell T. Scott, PH.D. (Yale University), *Associate Professor of Latin*¹
Alain Silvera, PH.D. (Harvard University), *Associate Professor of History*
Ruth O. Stallfort, M.S.S. (Simmons College School of Social Work), *Associate Professor of Social Work and Social Research*
Joseph Varimbi, PH.D. (University of Pennsylvania), *Associate Professor of Chemistry*
William W. Vosburgh, PH.D. (Yale University), *Associate Professor of Social Work and Social Research*
Matthew Yarczower, PH.D. (University of Maryland), *Associate Professor of Psychology*
Greta Zybon, D.S.W. (Western Reserve University), *Associate Professor of Social Work and Social Research*²

Assistant Professors

- Alfonso M. Albano, PH.D. (State University of New York at Stony Brook), *Assistant Professor of Physics*
Charles Altman, PH.D. (Yale University), *Assistant Professor of French*
Maria Luisa B. Crawford, PH.D. (University of California), *Assistant Professor of Geology*²
William A. Crawford, PH.D. (University of California), *Assistant Professor of Geology*
Charles A. Culotta, PH.D. (University of Wisconsin), *Assistant Professor of the History of Science, on joint appointment with the University of Pennsylvania*⁶
Roger W. Cummins, PH.D. (University of Minnesota), *Assistant Professor of English*
Gregory W. Dickerson, PH.D. (Princeton University), *Assistant Professor of Greek*
Richard Hamilton, PH.D. (University of Michigan), *Assistant Professor of Greek*
Sally Hollingsworth, M.S.S. (Bryn Mawr College), *Assistant Professor of Social Work and Social Research*
Anthony R. Kaney, PH.D. (University of Illinois), *Assistant Professor of Biology*⁶
Philip L. Kilbride, PH.D. (University of Missouri), *Assistant Professor of Anthropology*⁶
June Q. Koch, PH.D. (Columbia University), *Assistant Professor of English*⁵
Sandra I. Kohler, PH.D. (Bryn Mawr College), *Assistant Professor of English*
Michael Krausz, PH.D. (University of Toronto), *Assistant Professor of Philosophy*
Catherine Lafarge, PH.D. (Yale University), *Assistant Professor of French*

- Joyce Lewis, M.S.S. (Bryn Mawr College), *Assistant Professor of Social Work and Social Research*
- Arthur S. Marks, PH.D. (University of London), *Assistant Professor of History of Art*
- Clark McCauley, Jr., PH.D. (University of Pennsylvania), *Assistant Professor of Psychology*
- Eleanor K. Paucker, PH.D. (University of Pennsylvania), *Assistant Professor of Spanish*
- Emmy A. Pepitone, PH.D. (University of Michigan), *Assistant Professor of Education and Child Development*
- William R. F. Phillips, PH.D. (University of Wisconsin at Madison), *Assistant Professor of Sociology*
- Judith R. Porter, PH.D. (Harvard University), *Assistant Professor of Sociology*
- David J. Prescott, PH.D. (University of Pennsylvania), *Assistant Professor of Biology*
- C. Earl Ramsey, PH.D. (University of Florida), *Assistant Professor of English*
- Allen C. Rogerson, PH.D. (Dartmouth College), *Assistant Professor of Biology*
- Marc Howard Ross, PH.D. (Northwestern University), *Assistant Professor of Political Science*
- Stephen Salkever, PH.D. (University of Chicago), *Assistant Professor of Political Science*
- William Bruce Saunders, PH.D. (University of Iowa), *Assistant Professor of Geology*
- Louis Schneiderman, M.S.S.W. (Columbia University), *Assistant Professor of Social Work and Social Research*
- James W. Scott, PH.D. (Princeton University), *Assistant Professor of German*
- Stephen R. Smith, PH.D. (Massachusetts Institute of Technology), *Assistant Professor of Physics*
- Martin Avery Snyder, PH.D. (New York University), *Assistant Professor of Mathematics*
- Faye P. Soffen, ED.D. (University of Pennsylvania), *Assistant Professor of Education and Child Development*
- Earl Thomas, PH.D. (Yale University), *Assistant Professor of Psychology*
- James J. Tracy, PH.D. (University of Connecticut), *Assistant Professor of Education and Child Development*
- George E. Weaver, Jr., PH.D. (University of Pennsylvania), *Assistant Professor of Philosophy*
- Alice Whiting, M.S.W. (University of Michigan), *Assistant Professor of Social Work and Social Research*
- Merilyn B. Woods, PH.D. (Bryn Mawr College), *Assistant Professor of Social Work and Social Research*
- J. Maitland Young, PH.D. (Yale University), *Assistant Professor of Chemistry*

Lecturers

- Herbert Aptheker, PH.D. (Columbia University), *Visiting Lecturer in History*
- Louise K. Barnett, PH.D. (Bryn Mawr College), *Lecturer in English*
- Katrin T. Bean, PH.D. (Bryn Mawr College), *Part-time Lecturer in German*
- Joyce O. Beckett, M.S.S. (Bryn Mawr College), *Lecturer in Social Work and Social Research*
- Erika Rossman Behrend, M.A. (University of Pennsylvania), *Part-time Lecturer in Psychology*
- Frances Bondhus Berliner, PH.D. (Bryn Mawr College), *Part-time Lecturer in Chemistry*
- Sandra M. Berwind, PH.D. (Bryn Mawr College), *Part-time Lecturer in English¹*
- Ann Hill Beuf, PH.D. (Bryn Mawr College), *Visiting Lecturer in Sociology*
- Stanley S. Clawar, A.B. (Temple University), *Visiting Lecturer in Sociology*
- Jon-Henri Damski, M.A. (University of Washington), *Lecturer in Latin*
- William Davenport, PH.D. (Yale University), *Visiting Lecturer in Anthropology*
- John H. Davison, PH.D. (University of Rochester), *Visiting Lecturer in Music*
- John F. Deredita, M.PHIL. (Yale University), *Lecturer in Spanish*
- Nancy Dersofi, PH.D. (Harvard University), *Lecturer in Italian*
- David L. Elder, M.A. (Oberlin College), *Part-time Lecturer in Social Work and Social Research*
- Richard B. Grassby, M.A. (Oxon.), *Katharine E. McBride Visiting Lecturer in Economics*
- E. Jane Hedley, M.A. (Bryn Mawr College), *Dean of the Class of 1976 and Lecturer in English*
- Isaac C. Hunt, LL.B. (University of Virginia), *Visiting Lecturer in Social Work and Social Research*
- Arthur C. Huntley, M.D. (Jefferson Medical College), *Visiting Lecturer in Social Work and Social Research*
- Susan Kardas, PH.D. (Bryn Mawr College), *Part-time Lecturer in Anthropology*
- Dale Kinney, M.A. (New York University), *Lecturer in History of Art*
- Charles C. Kolb, M.A. (Pennsylvania State University), *Lecturer in Anthropology*
- Igor Kopytoff, PH.D. (Northwestern University), *Visiting Lecturer in Anthropology*
- Kenneth Krigelman, M.A. (University of Pennsylvania), *Lecturer in Mathematics*
- Phyllis S. Lachs, PH.D. (Bryn Mawr College), *Associate Dean and Acting Dean of the Graduate School of Arts and Sciences and Lecturer in History*
- Christie Lerch, PH.D. (Bryn Mawr College), *Part-time Lecturer in English*
- Edward A. Lippman, PH.D. (Columbia University), *Visiting Lecturer in Music*
- Anthony J. Litwinko, M.A. (University of Pennsylvania), *Lecturer in English*

- Ramona L. Livingston, A.B. (William Jewell College), *Advisor to Foreign Students and Lecturer in English*
- Adrienne R. Lockhart, PH.D. (Pennsylvania State University), *Lecturer in English*
- Jane R. McConnell, PH.D. (Bryn Mawr College), *Part-time Lecturer in Biology*
- Anne Mendelson, PH.D. (Bryn Mawr College), *Part-time Lecturer in English*
- Walter C. Michels, PH.D. (California Institute of Technology), *Professor Emeritus and Part-time Lecturer in Physics*
- Ralph Moberly, PH.D. (Princeton University), *Visiting Lecturer and Research Associate in Geology*
- Kathryn L. Morgan, PH.D. (University of Pennsylvania), *Visiting Lecturer in History*
- John J. Mulhern, PH.D. (State University of New York at Buffalo), *Lecturer in Philosophy*
- Nicholas Patruno, M.A. (Rutgers University), *Lecturer in Italian*
- Alice S. Powers, PH.D. (Bryn Mawr College), *Part-time Lecturer in Psychology*
- Elizabeth G. Preston, M.S.S. (Bryn Mawr College), *Lecturer in Social Work and Social Research*
- Patricia Onderdonk Pruett, PH.D. (Bryn Mawr College), *Associate Dean and Dean of the Class of 1973 and Lecturer in Biology*
- Jean B. Quandt, PH.D. (Rutgers University), *Part-time Lecturer in History*
- David Rabi, M.A. (Hebrew University), *The Monte and Bertha Tyson Visiting Lecturer in Judaic Studies*
- Ursula Victor Santer, PH.D. (Yale University), *Part-time Lecturer in Biology*
- Paul Sigmund, PH.D. (Harvard University), *Visiting Lecturer in Political Science*
- Gabrielle Schupf Spiegel, M.A., M.A.T. (Harvard University), *Lecturer in History*
- Arnold W. Thackray, PH.D. (Cambridge University), *Visiting Lecturer in the History of Science*
- P. Linwood Urban, Jr., TH.D. (General Theological Seminary), *Visiting Lecturer in the History of Religion*
- Robert E. Washington, M.A. (University of Chicago), *Lecturer in Sociology*
- Janet S. Young, B.A. (McGill University), *Lecturer in Economics*

Instructors

- Susan K. Becker, M.A. (University of Pennsylvania), *Part-time Instructor in English*
- Katherine Janowitz, M.A. (Columbia University), *Instructor in English*
- Wilbert D. Jerome, M.MUS. (Temple University), *Instructor in Music*
- Beth Riser, M.A. (Bryn Mawr College), *Instructor in Education and Child Development*
- Helen Segall, B.S. (Simmons College), *Instructor in Russian*
- Janis P. Stout, M.A. (Lamar State College), *Part-time Instructor in English*
- Carol W. Carpenter, M.A. (University of Pennsylvania), *Curator of Slides and Photographs*
- William H. Reese, PH.D. (University of Berlin), *Director of Orchestra*

Assistants

- Neal Broadus Abraham, B.S. (Dickinson College), *Assistant in Physics*
Alexa Ayn Albert, M.A. (Lehigh University), *Assistant in Sociology*
Thomas Paul Auxter, M.A. (Bryn Mawr College), *Assistant in Philosophy*
Susan Viguers Berman, M.A. (University of North Carolina), *Assistant in English*
Diana Cassel, B.A. (Wilson College), *Assistant in Biology*
George Patton Cave, M.A. (Bryn Mawr College), *Assistant in Philosophy*
Kenneth Mark Craig, M.A. (The Ohio State University), *Assistant in Archaeology*
Virginia L. Cunningham, A.B. (Immaculata College), *Assistant in Chemistry*
Carolyn Alice Dennis, B.A. (Smith College), *Assistant in Biology*
Susan Dorothea Gotsch, M.A. (East Stroudsburg State College), *Assistant in Sociology*
Lynn David Haynes, B.S. (East Tennessee State University), *Assistant in Geology*
Myrl Duncan Hermann, M.A. (Bryn Mawr College), *Assistant in Music*
Ronald Gordon Jones, B.S. (Imperial College of Science and Technology), *Assistant in Physics*
Barry Neal Lurie, A.B. (Temple University), *Assistant in Chemistry*
A. Thomas McLellan, B.A. (Colgate University), *Assistant in Psychology*
John L. Molinary, B.S. (East Tennessee State University), *Assistant in Geology*
Gail Carol Orner, B.A. (University of Pennsylvania), *Assistant in Chemistry*
Walter E. Paynter, B.S. (Temple University), *Assistant in Psychology*
Lynn Johnson Penn, M.A. (Bryn Mawr College), *Assistant in Chemistry*
Wendella M. Ricker, M.S. (Drexel Institute of Technology), *Assistant in Chemistry*
Scott J. Schaefer, M.A. (Bryn Mawr College), *Assistant in History of Art*
Howard K. Shapiro, B.A. (Franklin and Marshall), *Assistant in Interdepartmental Biochemistry Program*
Kathleen Warner Slane, A.B. (Bryn Mawr College), *Assistant in Archaeology*
Joelle Lemerle Stopkie, M.A. (New York University), *Assistant in French*
Anne Mee Thompson, M.A. (Princeton), *Assistant in Chemistry*
Theoni Trangas, B.A. (Wilson College), *Assistant in Biology*
Kathryn Woods, B.A. (West Virginia University), *Assistant in Psychology*

Library

- James Tanis, TH.D. (University of Utrecht), *Director of Libraries*
Thomas Song, M.A.L.S. (University of Michigan), *Associate Director of Libraries*

- John Dooley, M.L.S. (McGill University), *Assistant Director for Technical Services*
- Denise R. Francis, M.S.L.S. (Villanova University), *Serials Cataloguer*
- Mary S. Leahy, M.A. (Bryn Mawr College), *Rare Book Librarian*
- Charles McFadden, M.S.L.S. (Drexel University), *Acquisitions Librarian*
- Catherine E. Pabst, M.S.L.S. (Drexel University), *Head, Acquisitions Department*
- Elizabeth T. Pope, M.S.L.S. (Drexel University), *Head, Cataloguing Department*
- Gertrude Reed, M.S.L.S. (Rutgers University), *Reference Librarian*
- Pamela G. Reilly, M.S.L.S. (Drexel University), *Head, Public Services Department*
- Esther A. Stults, M.S.L.S. (Drexel University), *Monographic Cataloguer*
- Cynthia Griffin, B.S.L.S. (Simmons College), *Head, Art-Archaeology and Music Libraries*
- Ethel W. Whetstone, A.B.L.S. (University of North Carolina), *Head, Sciences and Social Sciences Libraries*

Administrative Officers

- Dolores E. Brien, PH.D. (Brown University), *Director of Career Planning and Placement*
- John A. Briscoe, M.A. (Harvard University), *Assistant to the President*
- Merle Broberg, PH.D. (The American University), *Assistant Dean of the Graduate School of Social Work and Social Research²*
- Katrin Ristkok Burlin, M.A. (Cornell University), *Dean of the Class of 1974 Semester I*
- Carolyn Morant Dent, A.B. (Bryn Mawr College), *Assistant Director of Admissions*
- Lupe R. Gonzalez, *Financial Aid Officer of the Undergraduate College*
- Rita C. Grass, A.B. (University of California), *Assistant Director of Public Information*
- E. Jane Hedley, M.A. (Bryn Mawr College), *Dean of the Class of 1976 and Lecturer in English*
- Nanette Holben Jones, A.B. (Bryn Mawr College), *Assistant to the President*
- Patricia A. King, B.A. (Mills College), *Assistant Director of Resources*
- Paul W. Klug, C.P.A., B.S. (Temple University), *Comptroller and Business Manager of the College*
- Phyllis S. Lachs, PH.D. (Bryn Mawr College), *Associate Dean and Acting Dean of the Graduate School of Arts and Sciences*
- Rebecca Fox Leach, A.B. (Bryn Mawr College), *Dean of the Class of 1974 Semester II*
- Ramona L. Livingston, A.B. (William Jewell College), *Advisor to Foreign Students and Lecturer in English*
- Myra A. Mayman, M.A. (Columbia University), *Associate Director of Admissions and Acting Director Semester II*

- Edith H. McGrath, *Administrative Assistant to the Dean of the College*
Margaret G. McKenna, A.B. (Bryn Mawr College), *Personnel Administrator*
Samuel J. McNamee, B.S. (Temple University), *Assistant Comptroller*
Michelle Pynchon Osborn, A.B. (Smith College), *Director of Public Information*
Julie E. Painter, A.B. (Bryn Mawr College), *Administrator of Records and Financial Aid*
Martha Stokes Price, A.B. (Bryn Mawr College), *Director of Resources*
Patricia Onderdonk Pruett, PH.D. (Bryn Mawr College), *Associate Dean and Dean of the Class of 1973 and Lecturer in Biology*
Robb N. Russell, M.S. (University of Illinois), *Director of Computer Services*
Jo-Anne E. Thomas, M.A.T. (Harvard University), *Dean of the Class of 1975*
Thomas N. Trucks, B.S. (Villanova University), *Superintendent of Buildings and Grounds*
Sarah E. Wright, *Director of Halls*

Health

- Frieda W. Woodruff, M.D. (University of Pennsylvania), *College Physician*
Anne Lee Delano, M.A. (Columbia University), *Director of Physical Education*
John F. Howkins, M.D. (Columbia University, College of Physicians and Surgeons), *Consulting Psychiatrist*
Howard B. Smith, M.D. (Jefferson Medical College), *Consulting Psychiatrist*
Margaret Temeles, M.D. (Tufts University, School of Medicine), *Consulting Psychiatrist*

Physical Education

- Anne Lee Delano, M.A. (Columbia University), *Director of Physical Education*
Jan Eklund Fisher, M.ED. (University of Minnesota), *Instructor in Physical Education*
Linda Fritsche Castner, M.S. (Smith College), *Instructor in Physical Education*
Barbara Lember, B.F.A. (Philadelphia College of Art), *Part-time Instructor in Dance*
Paula Carter Mason, B.S. (University of Wisconsin), *Part-time Instructor in Dance*
Mary L. O'Toole, B.S. (University of Massachusetts), *Instructor in Physical Education*
Janet A. Yeager, *Instructor in Physical Education*

Halls of Residence

- Aline Dupont, M.A. (Ecole Normale), *Warden of French House in Haffner Hall*
Sheila Humphrey, A.B. (Connecticut College), *Warden of Merion*
Diana Lopez-Rey, B.A. (University of Hawaii), *Warden of Spanish House in Haffner Hall*
Marion Masiuk, M.A. (Bryn Mawr College), *Senior Resident of the Graduate Center*
Alfred Morgan, B.S. (Massachusetts Institute of Technology), *Warden of Erdman*
Charles Morscheck, M.A. (Bryn Mawr College), *Warden of Radnor*
Martha Paas, B.A. (Randolph-Macon College), *Warden of Rhoads*
Lenore Ralston, B.A. (University of California), *Warden of Denbigb*
Nancy Sanquist, B.A. (University of California at Los Angeles), *Warden of Rockefeller*
Ann Semolic, B.A. (University of Connecticut), *Warden of Pembroke East*
Anne Weis, M.A. (University of Missouri), *Warden of Pembroke West*
To be announced, *Warden of German House in Haffner Hall*

Child Study Institute

- Janet L. Hoopes, Ph.D. (Bryn Mawr College), *Director*
Jean Ager, A.B. (Western College for Women), *Part-time Psychologist*
Shirley Alrich, M.A. (Bryn Mawr College), *Counselor*
Jean Astley, B.A. (University of Pennsylvania), *Remedial Reading Teacher*
Eleanor Beatty, M.A. (George Washington University), *Psychologist*
Hannah Beiter, M.S. (University of Pennsylvania), *Remedial Reading*
Lelia Brodersen, M.A. (Temple University), *Chief Psychologist*
Marjorie Edwards, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*
Elizabeth Emlen, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*
Anne D. Emmons, M.S. (University of Pennsylvania), *Remedial Reading Teacher*
Kathleen Finnegan, M.A. (Temple University), *Part-time Psychologist*
Lois S. Frey, M.S.W. (University of Tennessee), *Part-time Social Caseworker*
Joel Goldstein, M.D. (Jefferson Medical School), *Consulting Psychiatrist*
Constance Grant, B.S. (University of Pennsylvania), *Remedial Reading Teacher*
Anita Grinnell, M.S. (University of Pennsylvania), *Part-time Psychologist*
Ann Hamm, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*
Mary Hanlan, M.S.W. (University of California), *Social Caseworker*
Bernard Kanter, M.D. (Dalhousie University), *Consulting Psychiatrist*

- Louella M. Kennedy, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*
- Frederic J. Kwapien, M.D. (Tufts University School of Medicine), *Consulting Psychiatrist*
- Ann S. McIlvain, M.ED. (Boston University), *Remedial Reading Teacher*
- Christine Patzau, M.S.W. (University of Pennsylvania School of Social Work), *Part-time Social Caseworker*
- Myra E. Pottash, M.A. (Bryn Mawr College), *Psychologist*
- Beth M. Riser, M.A. (Bryn Mawr College), *Director, Remedial Reading Service*
- Martha D. Sanson, M.S. (University of Pennsylvania), *Remedial Reading Teacher*
- Beatrice Schneider, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*
- Herman Staples, M.D. (Hahnemann Medical College), *Consulting Psychiatrist*
- Russell Sullivan, M.A. (Seton Hall University), *Counseling Psychologist*
- Judith Vaden, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*
- Elsie Waelder, M.S.W. (Western Reserve University), *Chief Social Worker*
- Isabel Westfried, M.A. (Bryn Mawr College), *Psychologist*

Phebe Anna Thorne School

- Susan E. Maxfield, M.S. (Syracuse University), *Director*
- Harriet Heath, B.A. (Cornell College), *Assistant to the Director*
- Marilyn J. Motto, A.B. (Bryn Mawr College), *Teacher*
- Joan C. Ehrenreich, B.A. (Grinnell College), *Assistant Teacher*
- Tess L. Schutte, B.A. (Valparaiso University), *Assistant Teacher*
- Barbara Petty Spaeth, A.B. (Bryn Mawr College), *Assistant Teacher*

Introduction

Bryn Mawr effectively combines a small undergraduate college with two graduate schools. In both the Graduate School of Arts and Sciences and the Undergraduate College the study of the liberal arts and sciences is pursued with members of the faculty who normally teach on both levels. They find that the teaching of undergraduates and the direction of graduate student research complement each other, so that 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 narrow that it may not profit from a breadth of perception.

Bryn Mawr College is convinced that intellectual discipline and enrichment provide a sound foundation for living. It believes in the rights of the individual and thinks of the college community as a proving ground for the freedom of individuals to think and act as intelligent and responsible members of a democratic society.

In these beliefs Bryn Mawr has preserved the purpose and much of the tradition of its founders, 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.

History of the College

This concern about the opportunity for women to study at the university level was felt strongly 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 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. As Dr. Taylor's trustees in the early years consid-

ered 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 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 distinguished in the academic world for her scholarship in the classics and her ability as a teacher and administrator. From 1942 to 1970 Katharine Elizabeth McBride presided over the College in a time of great change and tremendous growth. The fifth president, Harris Llewellyn Wofford, Jr., was elected in 1969.

Since the early years of Bryn Mawr, the campus has grown from 39 to about 100 acres; new buildings have been added as required by additional students and by new undertakings in teaching and research.

The College as Community

Believing that a small college provides the most favorable opportunity for the students to participate in their own education, Bryn Mawr limits the number of undergraduates to approximately eight hundred. 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, independent 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 from many foreign countries.

The resources of Bryn Mawr as a small residential college are augmented by its participation at the undergraduate level with Haverford College and Swarthmore College in a plan which coordinates the facilities of the three institutions while preserving the individual qual-

ities and autonomy of each. Students may take courses at the other colleges, with credit and without additional fees. All three colleges share in some facilities and in various curricular and extra-curricular activities, but geographical proximity makes possible more regular and closer cooperation between Bryn Mawr and Haverford, which are only a mile apart. The calendars for the year are coordinated so that vacations and examination periods coincide. Collections in the two libraries are cross-listed, and students may study in either library.

The cooperation between Bryn Mawr and Haverford naturally extends beyond the classroom. Various student organizations on the two campuses work closely together both in matters concerned with student government and in the whole range of activities. Cooperation in living arrangements was initiated in 1969-70, and several residence halls on the two campuses are assigned to students of both colleges.

Bryn Mawr itself 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 not only for public lectures but also 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 by the Anna Howard Shaw Lectures in the social sciences, the visiting professors on the new Katharine E. McBride Fund for faculty appointments and by various individual lecturers in many of the departments of the College. The President's Office sponsors seminars on current issues which bring together distinguished leaders from the worlds of business, politics, finance and scholarship. Several of the student organizations also arrange conferences and lectures both on current national and international problems and within particular fields of social and cultural 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 has facilities for experimental theater work; the Arnecliffe Studio is 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, and student representatives join with mem-

bers of the faculty and administration in making and carrying out plans for the college community as a whole. The Student Self-Government Association, to which every student belongs, provides a framework in which individuals and smaller groups function. The Association both legislates and mediates in matters of social and personal conduct. Through their Government Association, the students share with the faculty the responsibility for the administration of the Academic Honor System. The Association also coordinates the activities of the many special interest clubs, open to all students; it serves as the liaison between students and College officers, faculty and alumnae. It has most recently been instrumental in perfecting a system of meal exchanges with Haverford, extending the shuttle bus service which the two colleges provide, and introducing college transportation between the two colleges and Swarthmore.

The Association is aided by the Committee on Religious Life of the Board of Directors and by the staff of the College to bring students in touch with their churches, to sponsor lectures or discussions on religious subjects, to plan services for worship and to take responsibility for giving students an opportunity to pursue and extend their religious interests.

Other major student organizations are concerned with political affairs, community service, the arts and athletics. The Alliance for Political Affairs offers possibilities for political action and political education, sponsoring speakers, organizing discussions and providing outlets for active participation in contemporary political issues. Alliance is an "umbrella organization" serving politically-oriented interest groups on campus. The Bryn Mawr League concerns itself with problems and projects of social welfare and various branches of social service to the community at large; tutoring and volunteer work with children and in hospitals are now the chief activities of the League.

The Arts Council, independently or with other groups (College Theater, Orchestra, Chorus, Little Theater) sponsors work and performances or exhibitions in the arts. Under the aegis of the Athletic Association, the Dance Club choreographs its own productions. The Athletic Association also provides opportunities for all kinds of activities, from the Outing Club to organized intramural and varsity contests. *The Bryn Mawr-Haverford News* published weekly and *Arroy* published annually welcome the participation of students

interested in reporting, editing and critical or creative writing. In 1972-73 a new magazine *Ra*, sponsored by the Sisterhood of the Black Students League, will be published.

One of the most active of student organizations is the Curriculum Committee which has worked out with the Faculty Curriculum Committee a system of self-scheduled examinations, currently in operation, as well as the possibility of receiving academic credit for "project" courses of a creative studio type or in social field work. Students participated in meetings of the Faculty Curriculum Committee for the first time in 1969-70 and continue to work with the faculty on an overall curriculum review which has to date resulted in a revision of the grading system and the initiation of four new interdepartmental majors and an interdepartmental area of concentration, and the opportunity to major in departments at Haverford College which have no counterpart department or program at Bryn Mawr. Black students' organizations have also been active in arranging with members of the faculty and staff for visiting lecturers to teach new courses in the appropriate departments and in 1970-71 opened a Black Cultural Center, which presently provides residence space for a few students. An active Women's Studies Committee has been working for several years with various departments on the establishment of appropriate courses on women. In 1971-72, a volunteer student group organized an all-College colloquium which involved a day of discussion on the aims and direction of the College and resulted in a series of reports and recommendations for the community.

In 1970-71 for the first time the Faculty voted to invite three seniors elected by the undergraduates to serve with faculty members on the College Admissions Committee. The Board of Directors requested the undergraduate college and the student organizations from each of the graduate schools to elect representatives to sit with the Board in its stated meetings. Two undergraduate students began meeting with the Board in May 1971. Like the faculty representatives to the Board, the student members join in discussion but do not vote.

Through their interest and participation in these many aspects of the College community the students exemplify the concern of Bryn Mawr's founders for intellectual development in a context of social commitment.

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 advisor and several teachers for an estimate of her character, maturity and readiness for college.

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 College would be 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; four years of one modern or ancient language, or a good foundation in two languages; 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.

Candidates will be notified of the Committee on Admissions' action on their application in late April of the senior year.

Entrance Tests

The Scholastic Aptitude Test and three Achievement Tests of the College Entrance Examination Board are required of all candidates, and should be taken between March of the junior year and mid-January of the senior year. The tests may be taken in either the junior or senior year, or divided between the two years. 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. No special preparation, other than work well done in a good school, is required for successful performance on these tests.

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 08540 or P. O. Box 1025, Berkeley, California 94701.*

Interviews

All candidates are expected to have an interview, before January 15, either at the College or with an alumna area representative. Appointments for interviews and campus tours should be made in advance by writing or telephoning the Office of Admissions (215 LA 5-1000). The Office of Admissions is open from nine to five on weekdays and, except during March, July and August, on Saturdays from nine to one.

A student who is unable to visit the College should write to the Director of Admissions for the name and address of an alumna representative in her area.

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 December 1) 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 the Scholastic Aptitude Test and three Achievement Tests (English and any two others) between March and 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 15* a preliminary application and a statement obtained from the College that she is a candidate under the Early Decision Plan.

3. All other application forms must be completed and returned no later than *November 1*.

4. She should arrange for the required interview at the College or with an alumna area representative. Names and addresses of the area representatives may be obtained from the Director of Admissions.

5. She will be notified by December 1 by the College (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 and to file an application with at least one other college, or (3) that she will not be admitted to Bryn Mawr.

Early Admission

Each year a few outstanding students are admitted after the junior year of high school. Students who wish to apply for Early Admission should plan to complete a senior English course before entrance to college and should write to the Director of Admissions about application procedures.

Deferred Entrance

A student admitted to the College may defer entrance to the freshman class for one year provided that she writes the Director of

Admissions requesting deferred entrance by May 1, the Candidate's Reply Date.

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.¹ 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.

The Advanced Placement Tests are given at College Board centers in May. Students may also consult the Dean or the Director of Admissions about the advisability of taking placement tests given by the College during Freshman Week.

Transfer Students

Each year a few students are admitted on transfer to the sophomore and junior classes. Successful transfer candidates have done excellent work at other colleges and universities and present outstanding high school records which compare favorably with those of entering Bryn Mawr freshmen.

Transfer candidates should file applications as early as possible and no later than March 15 for entrance in September or no later than November 1 for the second semester of the year of entrance. Application forms and instructions may be requested from the Director of Admissions.

Transfer candidates will be asked to submit official test reports from the College Entrance Examination Board of the Scholastic Aptitude and Achievement Tests taken in high school. Those who have not previously taken these tests will be required to take only the Scholastic Aptitude Tests. Test registration information may be obtained from

1. The grade of 5 is required in English and in History.

See also pages 44-45, sections II and III.

the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540, or from the West Coast office of the Board at Box 1025, Berkeley, California 94701.

To qualify for the A.B. degree transfer students must have completed a minimum of two years of full-time study at Bryn Mawr. No credit will be given for work done elsewhere until the student has successfully completed a year's work at the College. Students who have failed to meet the prescribed standards of academic work or who have been put on probation, suspended or excluded from other colleges and universities, will under no circumstances be admitted.

Candidates for transfer will be notified of the action taken on their applications by early June or for the second semester in December.

Foreign Students

Bryn Mawr welcomes applications from foreign students between the ages of 17 and 21 who have outstanding secondary school records and who meet university entrance requirements in their native countries.

Application forms and instructions are available from the Director of Admissions. No application fee is required. Foreign applications should be filed early in the year preceding entrance and must be complete by February 15.

Foreign applicants will be asked to take the Scholastic Aptitude Tests of the College Entrance Examination Board. Achievement Tests are recommended but not required. Test registration information may be obtained from the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540 or the West Coast office of the Board at Box 1025, Berkeley, California 94701. Registration arrangements for students taking the tests abroad should be made at least two months prior to the scheduled testing date.

All foreign applicants whose native language is not English will be required to present credentials attesting to their proficiency in English. The Test of English as a Foreign Language (TOEFL) is recommended but not required for all non-native speakers of English unless they have a diploma from an institution in which English is the sole medium of instruction. TOEFL registration information can be obtained by writing the Educational Testing Service, Princeton, New Jersey 08540.

Withdrawal and Readmission

A student who has withdrawn from College is not automatically re-admitted. She must request readmission and should consult her Dean and the Director of Admissions concerning the procedure to be followed. Evidence of the student's ability to resume work at Bryn Mawr may be requested in the form of records from another university or medical approval. 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 1 will be notified late in June.

Leaves of Absence

A student whose status at the College is not in question may apply to her Dean for a leave of absence. A leave may be requested for one semester or two consecutive semesters, and once approved, reinstatement will be granted. The estimated residential space available at the time a student wishes to return to the College will be a factor in the consideration of requests for leaves. Application must be made in writing by May 1 of the academic year preceding the requested leave (or October 29 for second semester leave). The deans and members of the student's major department will review any questions raised by the student or her Dean regarding the approval of the leave. In case of study at another institution, either foreign or domestic, the transfer of credits will be treated in the usual manner by the Committee on Transfer. A student should confirm her date of return, by letter to her Dean, by March 1 preceding return for the fall semester and by December 1 for return in the spring semester.

A student extending her leave beyond the approved period will have to apply for readmission.

Medical Leave of Absence

A student may, on the recommendation of the College Physician or her own doctor, at any time request a medical leave of absence for reasons of health (see page 38, Tuition). Re-entrance will be granted upon evidence of recovery.

Academic Facilities and Residence

Libraries

The new Mariam Coffin Canaday Library was officially opened in April, 1970. As the center of the College's library system, it offers expanded facilities for study and research. The collections for the humanities and social sciences are largely in the Canaday Library, except for Art and Archaeology in the M. Carey Thomas Library, Music in Goodhart Hall and Psychology in Dalton Hall. In addition, there are libraries for the Sciences and Mathematics in the Science Center.

Bryn Mawr's libraries operate on the open-stack system, allowing students free access to the collections, which comprise more than 350,000 volumes. A union catalogue for all the libraries of Bryn Mawr College is located in the Canaday Library, as are the basic reference and other service facilities of the system. Students are urged to familiarize themselves with the various aids provided for study and research. A new "Guide to the Bryn Mawr College Library" is available for handy reference, and the staff of librarians may be consulted for further assistance.

In addition to the books, periodicals and microfilms basic to a college library, the Canaday Library also has a small but distinguished collection of research materials among its rare books and manuscripts. The Marjorie Walter Goodhart Medieval Library, for example, provides the basic texts for probing the mind of the late Middle Ages and the thought of the emerging Renaissance. These treasures are supplemented by a growing collection of sixteenth-century texts. Another noteworthy resource is the Louise Bulkley Dillingham collection of Spanish-American books, which range from sixteenth-century exploration and settlement to contemporary Spanish-American life and culture.

The Rare Book Room houses the Marjorie Walter Goodhart Medieval Library of incunabula and medieval manuscripts. Important and extensive collections of early material on Latin America, Africa and Asia are to be found in the Dillingham, McBride and Plass collections. The recently acquired Castle collection expands the

opportunities for the study of the graphic book arts. In addition to these special collections are numerous other rare books and manuscripts.

The M. Carey Thomas Library still houses in the West Wing the books and other study materials of the Departments of Classical and Near Eastern Archaeology and History of Art. The study area in the stacks has been increased and the collections of slides and photographs have been made more accessible. Also in the West Wing is the Quita Woodward Memorial Room for recreational reading, with recent books in literature, art, religion and current affairs as well as many classics. The rest of the M. Carey Thomas Library will continue to provide offices for the majority of faculty in the humanities and social sciences as well as informal meeting rooms and the Great Reading Room, serving now as a Commons for the College community.

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 Head of the Public Services Department of the library 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.

Archaeology Collections

The Ella Riegel Museum of Classical Archaeology, housed on the third floor of the M. Carey Thomas Library, West Wing, contains a small study collection of Greek and Roman minor arts, especially vases, and a selection of pre-classical antiquities. The Museum was formed from private donations such as the Densmore Curtis collection presented by Clarissa Dryden, the Elisabeth Washburn King collection of classical Greek coins, and the Aline Abacherli Boyce collection of Roman Republican silver coins. The late Professor Hetty Goldman gave the Ella Riegel Museum an extensive series of pottery samples from the excavations at Tarsus in Cilicia. The collections are used for small research projects by undergraduate and graduate students.

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 Peru is known for. 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 have been 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 are 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 for Biology. 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 Science Center there is a machine shop with a staff of expert machinists to serve all the science departments, and several departments have smaller shops for the use of their own faculty and students. There are rooms specially equipped for work with radioactive materials and for photographic work.

The Geology Department makes available for study and research several important collections. On deposit from the United States Army Map Service and the U. S. Geological Survey are over 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.

Through its membership in the Uni-Coll Corporation, a regional educational computer consortium, Bryn Mawr College has access to the resources and technical support of a major computing center. A high speed, remote batch terminal (printer at 600 lines per minute, card reader at 600 cards per minute) and nine teletypewriter terminals located on campus link the College with the Uni-Coll IBM 370, Model 165 computer. These facilities make available to faculty and students batch, remote job entry, and interactive computing supported by a large variety of programming systems.

Language Laboratory

The Modern Language Departments jointly maintain a Language Laboratory in the Thomas Library. 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

Nine halls of residence on campus each provide full living accommodations for from 50 to 135 students. 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. Erdman Hall, first opened in 1965, was named in honor of Eleanor Donnelley Erdman, Class of 1921, and member of the Board of Directors. The Clarissa Donnelley Haffner Hall, which brings together into a "European village" three houses for students of French, German and Spanish, was opened in the fall of 1970.

In the year 1969-70 an experiment in coeducational living was tried: Radnor Hall housed students from both Bryn Mawr and Haverford; other Bryn Mawr students occupied suites in a Haverford residence hall. The success of the experiment and increased interest in these arrangements have resulted in an extension of coeducational living to Rhoads and Merion Halls at Bryn Mawr and to further units at Haverford.

College officers called wardens are in charge of the residence halls. They may be single women or married couples who are members of the Dean's staff but at the same time close to the undergraduates in age and engaged either in teaching or in studying for an advanced degree. They are interested in all aspects of each student's welfare and they work, 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 linen, bed pillows, desk lamps, 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 national food service organization. No special foods or diets can be obtained.

Rules for Residence

Residence in the college buildings is required of all undergraduates with two exceptions: those who live with their families in Philadelphia or the vicinity; and no more than twenty-five seniors who in 1969-70 for the first time were allowed to live in houses or apartments of their own choosing after having received permission to do so from both the College and their parents. There is no suitable housing at the College for married students.

A student enrolled in the College who plans to be married must

inform the Dean in advance and must make her own living arrangements. 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 \$5.00 per day (including meals).

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 Erdman Hall is available for consultation.

Non-resident students are liable for all undergraduate fees except those for residence in a hall. A Dispensary fee of \$25 entitles them to medical examination and consultation with the College Physician.

Fees

Tuition

The tuition fee in 1972-73 for all undergraduate students, resident and non-resident, is \$2700 a year.

The fee is payable in two installments. The first bill will be sent in July 1972, and is payable no later than August 15, 1972. The second bill will be sent in December and is payable no later than January 15, 1973. Although the tuition fee is paid in two equal parts, no reduction or refund will be made in the total tuition fee on account of absence, illness, dismissal, or for any other reason. Any student who does not formally notify the Dean of the College of her withdrawal prior to July 15 is responsible for the tuition charge for the entire year.

The average cost of teaching each undergraduate is over \$4000 a year. The difference over and above tuition must be met from private gifts and income from endowment. Contributions from parents able and willing to pay an additional sum are most welcome to help meet the expenses of instruction.

Residence

The charge for residence is \$1400 a year and will be billed twice a year with tuition, that is, in July and December.

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 for the whole year, 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.

General Deposit

All entering students are required to make a deposit of \$100. This deposit will remain with the College while the student is enrolled as an undergraduate. After one year of attendance, the deposit will be returned thirty days after graduation or withdrawal from College.

However, any unpaid bills and any expenses incurred as a result of destruction or negligence on the part of the student will be applied against the deposit.

Summary of Fees and Expenses for 1972-73

Tuition	\$2700
Residence	1400

Minor Fees

Laboratory fee per semester:

One course of 2 hours or less a week	\$12.50
One course of more than 2 hours a week	25.00
Two or more courses of more than 2 hours a week	50.00
Health Insurance (Students' Health Care Plan)	30.00
(For foreign students)	45.00
Dispensary fee for non-resident students	25.00
Graduation fee (payable in the senior year)	25.00

Schedule of Payments

Tuition and residence fees will be billed in two equal installments and are due as follows:

For resident students

 \$2050 due not later than August 15

 \$2050 due not later than January 15

For non-resident students

 \$1350 due not later than August 15

 \$1350 due not later than January 15

No student will be permitted to attend classes or to enter residence until payment of the College charges has been made. No student will be graduated or receive a transcript until all accounts are paid.

Faced with the rising costs affecting all parts of higher education, the College has had to raise tuition each of the last three years, and further increases can be expected.

Monthly Payment Plan

For parents who wish to pay college fees on a monthly basis, the College offers the Education Plan in cooperation with the Bryn Mawr Trust Company. To finance a single year's cost it is necessary to sign an agreement by July 15. Contracts include the benefit of parent life, total and permanent disability insurance. For information, write to the Comptroller of the College.

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. Each class has its own Class Dean. In addition to their class deans, students may work with the financial aid officer who administers the financial aid program which includes grants and loans and the Director of the Career Planning and Placement Office. The wardens of residence halls, who are members of the Dean's staff, also are ready to advise and assist students. The College physician, the consulting psychiatrists and counselors are also available to all students. The deans and the wardens will give students information about appointments with these specialists.

For freshmen, the Student Freshman Week Committee and the College provide a special period of orientation. Freshmen are asked to come into residence 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. Freshmen with their parents may have interviews with the President. In addition, freshmen have individual appointments with the deans to plan their academic program for the year. 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 Student Handbook.

Each student's academic work must be of sufficiently high quality to meet the academic standards set by the College. The Council of the Undergraduate 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 Undergraduate Council may set specific requirements to be met by the student concerned and may also curtail privileges. In extreme cases the Undergraduate Council may exclude a student or require her to withdraw from the 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. Any infraction of these regulations or any action contrary to their spirit constitutes an offense. Infractions are dealt with by an Administrative Board composed of faculty and students.

Attendance at Classes

Regular attendance at classes is expected. Responsibility for attendance rests solely with each student. In general no attendance records are kept. 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.

Health

Students receive clinic and hospital care in the College Dispensary and Infirmary, where a College Physician is in daily attendance. The 18-bed Infirmary is open when College is in session. Additional medical and surgical facilities are readily available at the Bryn Mawr Hospital and in nearby Philadelphia.

Students receive out-patient care in the College Dispensary and in-

patient care when necessary in the Infirmary. Medical and psychiatric consultations with the College staff are available.

The Counselling Service is staffed by a social worker, clinical psychologist and three psychiatrists who are employed by the health service on a part-time basis. This service is available to all students eligible for Dispensary care, and is limited to discussion of acute problems, diagnosis and recommendations for further care. A charge is made for visits in excess of four.

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, an intradermal tuberculin test and ophthalmologist's certificate are required. If the intradermal tuberculin test is reported positive a chest x-ray is necessary. Students who have failed to hand in these reports will not be permitted to register until they have completed the necessary examinations and immunizations.

The residence fee paid by resident students entitles them 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 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 \$15. A nominal charge will be made for medicines and laboratory tests.

Non-resident students must pay a fee of \$25, which entitles them to dispensary service and 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. Admission to the Infirmary of non-resident students is at the rate of \$15.00 per day.

All communications from parents and guardians, outside physicians and others, concerning the health of the students, should be addressed to the College Physician. Any student who becomes ill when absent from College must notify the Office of the Dean immediately and present to the Infirmary when she returns a signed statement from her physician. If a student leaves the campus for reasons of health she should notify her Class Dean or the Infirmary.

The College reserves the right, if the parents or guardians of a student cannot be reached, to make decisions concerning operations or other matters of health.

The College has arranged for health insurance, known as the Student's Health Care Plan. Individual policies providing reimbursement for medical, surgical and hospitalization expenses within specified limits are available to students. The cost is \$30 a year and includes coverage for one full calendar year. Foreign students must carry health insurance valid in the United States. The cost for insurance taken out at Bryn Mawr is approximately \$45 for a twelve-month period. Application forms may be obtained from the Comptroller.

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 present plan of 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 flexibility and makes it possible for students to include a wide range of fields of knowledge and to have great freedom to explore and elect. Some of the flexibility has been achieved by including all departments of the College in a divisional system, thus allowing both humanist and scientist a variety of ways in which to meet college requirements.

The Plan for the Curriculum

I. All candidates for the A.B. degree shall present 16 units¹ of work. In all cases one of these will be a unit of Senior Conference in the major subject.

II. All students must present as a requirement for the degree one unit of work from each of the following four divisions.

<i>Group I</i>	<i>Group II</i>	<i>Group III</i> ⁵	<i>Group IV</i>
History	Biology	English	History
Philosophy	Chemistry	Literature	Philosophy
Anthropology ²	Geology	Modern	Archaeology
Economics	Physics	Literatures	History of Art
Education	Psychology 101	Classical	History of Religion
Political Science	Mathematics ⁴	Literatures	Music
Psychology ³			
Sociology			

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. Anthropology 101.
3. Two semester courses chosen from: 205a/b, 306b, 307a, 308b.
4. Mathematics alone may not be used to fill any *group* requirement. See page 45, II, a & c; III, B, 2.
5. The following courses satisfy the requirement:
English 102, 103 and all 200 courses under "Literature"
French 201, 202, 203 and all 300 courses
German 202 and all 300 courses
Greek 101, 201, 203 and 301
Italian 201, 202, 303 and 304
Latin 101, 201, 202 and all 300 courses
Russian 203 and all 300 courses
Spanish 201, 203 and all 300 courses
In special cases, Biblical Literature may satisfy the requirement.

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. Students majoring in Psychology may count a course in their major as satisfying *either* Group I or Group II, but not both.

c. Courses taken to satisfy the requirements in English and 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 015) unless by a score of 5 on the Advanced Placement Test she has shown evidence that she has attained proficiency at this level.

B. Achieve a certain level of proficiency in languages or in one language and 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 C 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 January or May of the year prior to college admission and/or by passing with an honor grade an Advanced Placement Test.

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 C in Mathematics 101 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 C 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 advisor plan an appropriate sequence of major and allied courses. Usually a major is made up of four courses, two courses of allied work and one unit of Senior Conference in the Major Subject. No student may be required to offer more than six courses 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 and a Senior Conference
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 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.

A student with unusual interest or preparation in several areas could consider one of the interdepartmental majors, a double major, a major with a strong minor, or a special program involving work in several departments built around one major as a core. Such programs can be arranged by consulting the Dean and members of the departments concerned.

A student who wishes to pursue the study of a special area, figure or problem within a given discipline, may, if she finds a faculty member willing and able to supervise such work, substitute a supervised unit of independent study for one semester or year course.

In 1971 the faculty voted to change from a numerical grading system to one which uses only the letters A, B, C, D and F.

Each student must attain a grade of C or above in at least half of her graded courses and a grade of at least D in the remainder. In all courses in her major subject, she must attain grades of C or above. Should she receive a grade below C 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 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 Credits (see page 29)
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, in the case of required or major and allied work, by the departments concerned. Credit toward the Bryn Mawr degree will be granted for such courses.

Students may major in departments at Haverford College for which there are no corresponding departments or programs at Bryn Mawr, e.g., Astronomy.

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 credits should first obtain approval of their plan from their Class 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:

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 requirement in Physical Education (see 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 fall of the senior year.

b. Physical Education

All students must meet the requirement in Physical Education (see page 147).

2. Residence—Every candidate for the degree of Bachelor of Arts unless she is a transfer student or is permitted to accelerate her program or to take a junior year away will normally 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 do not 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 enters 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 a second course in Biology.

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. Students planning pre-medical

work should consult early in their careers with the Associate Dean who is the pre-medical advisor for the College.

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 (see page 166). 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.

Preparation to Teach

Students majoring in a liberal arts field which is taught in secondary school may, by appropriate planning early in the undergraduate career, prepare themselves to teach in the public junior and senior high schools of Pennsylvania. By reciprocal arrangement the Pennsylvania certificate is accepted by a number of other states. A student who wishes to teach should consult early in her college career with the chairman of the department concerned and of the Department of Education and Child Development so that appropriate curriculum plans can be made.

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. Through the grant, the College is able to offer both undergraduate and graduate scholarships to students who wish to prepare themselves for future work in areas of interest to more than one natural science department. The chairmen of the departments included in this plan (Biology, Chemistry, Geology, Mathematics, Physics, Psychology) will be glad to see students interested in this program and to advise them about their course of study. Such students should consult with the chairmen of the departments as early as possible.

Interdepartmental Work

In 1970-71 the faculty voted approval for four new Interdepartmental majors in Classical Languages, Classical Studies, French Studies and the Growth and Structure of Cities, and an Interdepartmental area of concentration in Hispanic and Hispanic-American Studies (see page 139).

In addition each year certain courses are offered which cut across well-defined areas of knowledge and emphasize relationships among them. The interdepartmental courses are usually offered at the advanced level since the material considered requires some background in at least two disciplines.

Credit for Creative Work in the Arts

Although Bryn Mawr does not have a regular program of studio courses, serious students of Art, Music, Creative Writing and the Dance may receive elective academic credit for work in these fields. For details see under Fine Art, the Performing Arts, the Department of Music and the Department of English.

Language Houses

Haffner Hall, which opened in the fall of 1970, comprises three separate units for qualified students of French, German and Spanish.

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'Etudes Francaises 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 and from Bryn Mawr. 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 Hispánicos en Madrid

Bryn Mawr also 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 and from Bryn Mawr. The instructors are members of college and university staffs 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. Eleanor Paucker of the Department of Spanish. A small 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 Sarah Lawrence, Smith and Sweet Briar Colleges or at *L'Académie*; in Geneva, Florence, or Hamburg with groups organized by Smith College, or in Munich or Freiburg with the group sponsored by Wayne State University. Students may apply for admission to other Junior Year Abroad programs which have the approval of their major department and the Curriculum Committee. 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.

Intercollegiate Center for Classical Studies in Rome

The Center is maintained by a cooperating group of colleges and universities, of which Bryn Mawr is a member. Students majoring in Latin, Greek or Archaeology who meet the Center's entrance requirements may apply for admission for one or both semesters of the junior year. The Center's curriculum includes courses in Greek and Latin Literature, Ancient History and Archaeology, and provides for the study of Italian.

Guest Senior Year

A student, after consultation with her major department and her Dean, may apply for a guest senior year at another institution in the following circumstances: (a) if a program offered elsewhere will provide her with an opportunity of furthering her academic goals in a way not possible at Bryn Mawr (such cases to be submitted to the Curriculum Committee for approval); (b) for reasons of health or family emergency; (c) if she will be married and not remain in the Bryn Mawr area.

Scholarships and Other Student Aid

All students are, strictly speaking, on scholarship in the sense that their tuition fees cover only part of 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 approximately forty per cent 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.

Employment and Vocational Counselling

The Office of Career Planning and Placement is concerned with student and alumna career, summer and self-help job interests.

Students and Alumnae may consult with this office about careers which match their interests, preparation, and experience, information on specific employers and current job openings, and techniques of job-hunting. Career Planning and Placement also collects, maintains and makes available to employers, credentials including biographical data and faculty and employer references, for those who register with the office.

Students may obtain part-time employment during the school year both on and off campus. Some of the jobs available are research, clerical, library work, typing, waitressing, child care and sales. Information on summer jobs is collected and made available to those students who are interested in summer work experience. The staff is also available to consult with students on appropriate jobs, employers and job-hunting techniques for summer pre-vocational work experiences. Last year over eighty percent of the undergraduate students worked during the academic year, with a range of earnings from \$1.00 to over \$1200, averaging \$205 per semester. During the summer of 1971, sixty-six and one-half percent of the undergraduates chose to work with average earnings for the summer of \$700.

Students of foreign citizenship wishing employment should consult the Advisor to Foreign Students whose office is in Thomas Library.

Bryn Mawr participates in the Federal College Work-Study Program established by the Economic Opportunity Act of 1964. This program provides funds for on and off campus jobs for students who meet the Federal eligibility requirements.

The Werkman Fund, given in memory of Alexandra Colt Werkman '60, provides the impetus for career conferences coordinated by the Office of Career Planning and Placement. These conferences are designed to help Bryn Mawr students seek out a full range of stimulating careers and foresee the particular challenges to be faced by well-educated women.

Courses of Study 1972-73

Key to Course Numbers and Symbols

001-099

indicate elementary and intermediate courses.

With the exception of Greek 001 and Russian 001 these courses are not part of the major work.

100-199

indicate first-year courses in the major work.

200-299

indicate second-year courses in the major work.

300-398

indicate advanced courses in the major work; 399 is used for the Senior Conference.

400-499

indicate special categories of work (e.g., 401 for Honors, 403 for supervised unit).

* . . . indicates elective courses, open to all students without prerequisite unless a special 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.

d . . . the letter "d," following a number, indicates a course of six-weeks' duration to be followed by an additional six weeks of independent supervised work.

[] . . . Square brackets enclosing the title of courses indicate that these courses are not given in the current year.

In general, courses 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 student's Class Dean and the Department concerned. One unit of work carried throughout the year is the equivalent of eight semester hours, or eleven quarter hours.

Haverford College courses are listed by number as they appear in the Haverford catalogue.

Anthropology

Professor: Frederica de Laguna, PH.D.

Associate Professor: Jane C. Goodale, PH.D., *Chairman*

Assistant Professor: Philip L. Kilbride, PH.D.¹

Visiting Lecturers: Igor Kopytoff, PH.D.

William H. Davenport, PH.D.

Lecturers: Susan Kardas, PH.D.

Charles C. Kolb, M.A.

Professor of Music: Agi Jambor, M.A. (Ethnomusicology)

Associate Professor of German: Nancy C. Dorian, PH.D. (Linguistics)

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, 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, 204 or 208, 320a and two additional half-units of advanced (300) work, plus 399a & b (Senior Conferences). Two additional units of major or allied work are required, which may be taken at Bryn Mawr or Haverford.

Allied Subjects: Biology, Classical and Near Eastern Archaeology, Economics, English Literature, Geology, History of Art, History of Religion, Linguistics, Philosophy, Political Science, Psychology, Sociology.

101. *Man, Culture and Society:* Members of the Department.

Man's place in nature, human evolution, and the history of culture to the rise of early civilizations in the Old and New Worlds; forms of culture and society among primitive peoples. Because the subject matter is so extensive and novel, and the basic concepts unfamiliar, a full year is needed to gain an adequate understanding of the subject; therefore, both semesters are required for credit.

1. On leave, 1972-1973.

- [102a.* *African Heritage*: Mr. Kilbride.]
- 203a. *Primitive Society*: Miss Goodale.
Social organization, introduction to theory; ethnographic methods and study of significant contributions. Prerequisite: Anthropology 101.
204. *American Archaeology*: Mr. Kolb.
The prehistory of North, Central and South America. Introduction to archaeological methods and theory and interpretation of archaeological materials. Laboratory work is included. Prerequisite: Anthropology 101, or permission of instructor.
- 205a.* *Ethnomusicology*: Mme. Jambor.
Gypsy, Hungarian, ancient and modern Israeli, East European Folk music, and American Indian music; ear training and practice in transcription.
- 205b.* *Ethnomusicology*: Mme. Jambor.
Native African music; preparation for museum curatorship of musical instruments; continued instruction in transcription. Prerequisites: Anthropology 205a or Music 111a (Haverford).
- [208. *Old World Prehistory and Human Evolution*: Mr. Kolb.]
- [302b. *Africa: Sub-Saharan Ethnology*: Mr. Kilbride.]
- 303b. *Oceania: Peoples of the Pacific Islands*: Miss Goodale.
A study of selected cultures and societies of the Pacific, illustrating problems in Ethnography. Prerequisite: Anthropology 203a.
- 304b. *The American Indian*: Miss de Laguna.
A comparative study of North American Indian cultures and societies, illustrating problems in Ethnography. Prerequisite: Anthropology 203a.
- [305a. *Native Cultures of Central America*: Mr. Kilbride.]
- [306a. *Peasants*: Mr. Kilbride.]
- 320a. *Cultural Theory*: Miss de Laguna.
The development of Anthropology as a discipline and an examination of the important classical and modern contributions to cultural theory. Prerequisite: a half-unit of advanced (300) work.

321b. *Culture and Personality*: Miss de Laguna.

Approaches to an understanding of culture through study of cultural factors in the development of human personalities, and individual experiences in different socio-cultural settings. Prerequisite: Anthropology 320a.

[322b. *Introduction to Physical Anthropology*: Mr. Kolb.]

[323b. *Native Cultures of Latin America*: Mr. Kolb.

A study of selected cultures and societies of Latin America illustrating problems in Ethnography. Prerequisite: a half unit of advanced (300) work.

See also:

[Interdepartmental 308. *Introduction to Linguistics*: Miss Dorian.]

Interdepartmental 310. *Introduction to Linguistic Techniques*: Miss Dorian.

Interdepartmental 312b. *Field Methods in Linguistics*: Miss Dorian.

399a. *Senior Conferences*:

& b. The topic of each seminar will be determined in advance by discussion with students. Paper(s), an examination, and the quality of a student's participation in the seminar will form the basis for evaluation.

399a. Miss Goodale.

399b. Mr. Kolb.

401a. *Independent Work*

& b. Independent work is offered to seniors of marked ability for one or two semesters. If undertaken successfully, it may be credited as Honors work.

Interdepartmental Work: The Department of Anthropology participates in the Interdepartmental concentration in *Hispanic and Hispanic-American Studies*. See page 143.

Biology

Professors: Robert L. Conner, PH.D., *Chairman*

Jane M. Oppenheimer, PH.D.

Assistant Professors: Anthony R. Kaney, PH.D.¹

David J. Prescott, PH.D.

Allen C. Rogerson, PH.D.

Lecturers:

Jane R. McConnell, PH.D.

Patricia O. Pruett, PH.D., *Associate Dean*

Ursula Santer, PH.D.

Assistants:

Diana Cassel, A.B.

Carol Dennis, A.B.

Howard Shapiro, A.B.

Theoni Trangas, A.B.

Assistant Professor of Chemistry: J. Maitland Young, PH.D.

The courses offered are designed to present the principles underlying biological science to liberal arts students interested in understanding the biotic world in which man lives and his own position in it. Primary consideration is devoted, both in class and in the laboratory, to the interplay of development, structure and function in determining the unity and diversity which characterize the plant and animal kingdoms, and to dynamic interrelationships of living organisms with each other and with their environment. Cell biology, cell physiology and biochemistry are particularly emphasized as unifying disciplines.

Requirements in the Major Subject: Biology 101 (unless exempted), 201a & b, 301a & b, and at least one other unit (two half courses) of advanced work, the Senior Conference, and Chemistry 101 and 202. Physics 101 and Mathematics 101 are strongly recommended as additional allied courses. Students should note that the ability to read French or German is essential for graduate work.

Allied Subjects: Chemistry, Physics, History of Science.

1. On leave for the year, 1972-73.

101. *General Biology*: The Department.

Laboratory: Mrs. McConnell and assistants.

A presentation of the fundamental principles of genetics and molecular, cellular, and organismic biology. A selection of plants and animals is studied to illustrate problems and theories dealing with living systems and their interaction with the environment. Lectures three hours, laboratory three hours a week.

201a. *Developmental Biology*: Miss Oppenheimer.

A study of the fundamental problems of animal development. Lecture three hours, laboratory four hours a week. Prerequisite: Biology 101 or permission of the Department.

201b. *Genetics*: Mrs. Santer.

A study of the fundamentals of heredity and gene action. Lectures three hours, laboratory four hours a week. Prerequisite: Biology 101 or permission of the Department.

202a. *Molecular Virology*: Mr. Showe (Haverford).

The life cycles of some viruses of bacteria and higher organisms will be studied with regard to regulation of specific macromolecules and the assembly of infectious particles. Class meeting two hours a week. No laboratory. Prerequisites: Biology 301b, Chemistry 202.

301a. *Cellular Physiology*: Mr. Conner.

A course devoted to a study of the activities of cells in terms of physical and chemical processes. The relationship of structure to function at the molecular, organellar and cellular levels is stressed. Lectures three hours, laboratory four hours a week. Prerequisites: Biology 201 and Chemistry 202 which may be taken concurrently.

301b. *Cellular and Molecular Biology*: Mr. Rogerson.

A study of cellular processes including the cell cycle and the regulation of protein and nucleic acid synthesis. Lectures three hours, laboratory four hours a week. Prerequisite: Biology 301a.

[351a. *Problems in Genetics*: Mr. Kaney.]

[352a. *Problems in Molecular Biology*: Mr. Rogerson.]

353. *Biochemistry*: Mr. Conner, Mr. Prescott, Mr. Young.

(INT.) The chemistry of living organisms with special emphasis on the

chemical principles in physiological phenomena. Lectures three hours, laboratory six hours a week. Prerequisites: Chemistry 202 and Biology 301 or permission of the Department. Physics 101 and Mathematics 101 are recommended.

354a. *Aspects of Immunology*: Mr. Rogerson.

The immune response will be considered in terms of its physiology and molecular specificity.

355b. *Problems in Developmental Biology*: Miss Oppenheimer.

A discussion course dealing in depth with one or two topics of contemporary interest. Class meeting two hours a week. No laboratory. Prerequisites: Biology 201a & b or their equivalent and Biology 301b (the latter may be taken concurrently).

[356. *Biophysics*: Miss Hoyt.]

357b. *Computer Usage in the Life Sciences*: Mrs. Pruett.

(INT.)

Experiments in the Life Sciences will be analyzed using computer techniques. The Fortran IV Language will be developed and used throughout the course. Limited to advanced students with research experience; no previous training in the use of the computer required. Lecture two hours, laboratory two hours.

399. *Senior Conference*: All seniors write a comprehensive paper in a prescribed area of Biology in conjunction with a faculty member. These papers serve as the basis for seminars intended to relate materials from various sub-disciplines of Biology to each other, to examine subjects of current biological interest, and to relate the field to the larger aspects of society. The method of evaluating the work will be determined in consultation between the seniors and the Department.

Honors Work: All qualified students are encouraged to do Honors work in one of the advanced fields. This entails one unit of laboratory work on an independent experimental research problem.

Teaching Certification: A sequence of work offered by the Department of Biology and the Department of Education of the College leads to a certificate to teach in the secondary schools of Pennsylvania.

Chemistry

Professors: Ernst Berliner, PH.D., *Chairman*

Frank B. Mallory, PH.D.

George L. Zimmerman, PH.D.

Associate Professors: Jay Martin Anderson, PH.D.

Joseph Varimbi, PH.D.

Assistant Professor: J. Maitland Young, PH.D.

Lecturer: Frances Bondhus Berliner, PH.D.

Assistants: Virginia L. Cunningham, A.B.

Barry N. Lurie, A.B.

Gail Carol Orner, B.A.

Lynn Penn, M.A.

Wendella M. Ricker, M.S.

Anne Mee Thompson, M.A.

Assistant Professor of Biology: David J. Prescott, PH.D.

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, the three 200 courses, one unit of advanced work and the Senior Conference. Physics 101 and Mathematics 101 are also required, and a reading knowledge of German is recommended. 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.

201. *Inorganic Chemistry*: Mr. Varimbi.

Correlations of chemical and physical properties based on the Periodic Table; structures of inorganic compounds; equilibria in acid-base and complex-ion systems. Laboratory work includes analytical techniques, synthesis, purification, and characterization of a variety of compounds by chemical and instrumental methods. Three lectures, five hours laboratory a week.

202. *Organic Chemistry*: Mr. Berliner, Mr. Mallory.

First semester: aliphatic chemistry; second semester: aromatic chemistry and natural products. Three lectures, five hours laboratory a week.

203. *Physical Chemistry*: Mr. Zimmerman.

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. (The latter may be taken concurrently.)

- 301b. *Advanced Inorganic Chemistry*: Mr. Varimbi.

Two lectures a week.

- 302a. *Advanced Organic Chemistry*: Mr. Berliner, Mr. Mallory.

& b. 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.

- 303a. *Quantum Mechanics of Atoms and Molecules*: Mr. Anderson.

Two lectures and one conference a week. Prerequisite: Chemistry 203, Mathematics 201, or its equivalent.

- 303b. *Atomic and Molecular Spectroscopy* (jointly with Haverford): Mr. Gavin, Mr. Zimmerman.

Topics include absorption and emission spectroscopy in the vacuum

ultraviolet, the ultraviolet-visible, and the infrared regions, nuclear magnetic resonance spectroscopy, raman spectroscopy. Two lecture-discussions, five hours of laboratory per week, and regular use of a computer. Prerequisites: Chemistry 303a or Chemistry 311a (Haverford) and some elementary knowledge of Fortran programming.

304b. *The Dynamics of Environmental Systems*: Mr. Anderson.

(INT.) Principles of the structure and function of ecosystems; techniques for the simulation of complex systems; the impact of man on the environment and man's management of resources. Three hours lecture-discussion weekly.

Prerequisites: one year of a natural and of a social science, and some familiarity with digital computation.

353. *Biochemistry*: Mr. Conner, Mr. Prescott, Mr. Young.

(INT.) (See Biology 353.)

[356b. *Biochemical Mechanisms*: Mr. Dunathan (at Haverford).]

Prerequisite: Chemistry 202.

399. *Senior Conference*: Students survey the recent chemical literature and prepare written reviews on specific topics chosen in accordance with their own interests. These reviews are also made the subjects of oral presentations at seminar meetings held throughout the year, and attended by both seniors and faculty.

Honors Work: Honors work may be taken by qualified students in conjunction with any of the advanced courses.

Teaching Certification: A sequence of work offered by the Department of Chemistry and the Department of Education of the College leads to a certificate to teach in the secondary schools of Pennsylvania.

Classical and Near Eastern Archaeology

Professors: Machteld J. Mellink, PH.D., *Chairman*

Brunilde S. Ridgway, PH.D.

Associate Professors: Carl Nylander, PH.D.

Kyle M. Phillips, Jr., PH.D.

Assistants: Kenneth M. Craig, M.A.

Kathleen W. Slane, A.B.

The major courses provide an extensive survey of the ancient Mediterranean and Near Eastern civilizations, with emphasis on Greek art and archaeology.

Requirements in the Major Subject: Archaeology 101, 201b or 204b, 203, 205b, 301 and the Senior Conferences. All majors are urged to take Greek and Ancient History.

Allied Subjects: Ancient History, Anthropology, History of Art, Greek, Latin, Akkadian.

101. *An Introduction to Ancient Art:* Mrs. Ridgway (I), Mr. Phillips (II).
A historical survey of the art of the Ancient Near East, Greece and Rome. Three hours of classes, one hour of informal discussion.
- 201b. *Egypt and Mesopotamia before 1600 B.C.:* Miss Mellink.
An introduction to the cultures of the prehistoric and early historical Near East, stressing their origins and the rise of local traditions.
- 202b. *Ancient Greek Cities and Sanctuaries:* Mrs. Ridgway.
(INT.) A comprehensive study of the form and cultural importance of the major Greek centers, with emphasis on the growth of cities.
- 203a. *Greek Sculpture:* Mr. Phillips.
The development of Greek sculpture to the Hellenistic period.
- 203b. *Later Greek and Roman Sculpture:* Mrs. Ridgway.
From the Hellenistic period to the end of the Roman Empire.
- [204b. *Egypt and Mesopotamia from 1600-546 B.C.:* Miss Mellink.]
- 205b. *Aegean Archaeology:* Miss Mellink.
The pre-Greek and early Greek cultures of the Aegean area: Minoan Crete, Troy, the Aegean Islands, Mycenaean Greece and their overseas connections.
- 301a. *Greek Vase-Painting:* Mr. Phillips.
Greek vase-painting as an original form of art, its relation to other arts, and its place in archaeological research.
- 301b. *Greek Architecture:* Mr. Nylander.
(INT.) The Greek architectural tradition in its historical development, with special study of the Greek temple.

[302b. *Roman Architecture*: Mr. Phillips.]

[304a. *Monumental Painting*: Mr. Phillips.]

399. *Senior Conference*: Weekly two-hour seminars for which readings are assigned and reports are prepared. Subjects to be announced. Semester I: Mr. Nylander; Semester II: Mr. Nylander and Mr. Phillips.
See also History 205a.: *The Ancient Near East*: Mr. Nylander.

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.

Interdepartmental Work: The Department of Classical and Near Eastern Archaeology participates in the Interdepartmental majors: *Classical Studies* and *Growth and Structure of Cities*. See pages 139 and 141.

Excavations: The Department has two excavation projects. The excavation of Karatash-Semayük in Lycia (Turkey) is conducted as a field seminar in the fall, with full credit for graduate students and seniors by invitation. The second project, the excavation of an Etruscan archaic site at Murlo near Siena, takes place during the summer on a non-credit basis for graduate and undergraduate students of archaeology.

Economics

Associate Professors: Richard B. Du Boff, PH.D.¹

Noel J.J. Farley, PH.D., *Chairman*

Helen Manning Hunter, PH.D.

Lecturer: Janet S. Young, M.A.

Katharine E. McBride Visiting Lecturer: Richard B. Grassby, M.A.

At Haverford

President: John R. Coleman, PH.D.

Professor: Holland Hunter, PH.D.

Assistant Professors: Vernon J. Dixon, M.S.

Samuel Gubins, PH.D.

The major in Economics consists of courses given at Bryn Mawr and Haverford. It is designed to provide an understanding of economic processes and institutions and the interactions among the economy, politics and social structure; to train students in the methods used to analyze those processes and institutions; and to enable them to make policy judgments.

Requirements in the Major Subject: Economics 111 and 112 (or 101), three units of intermediate and advanced work (including at least one unit of 300 level courses) and the Senior Conference. Courses 111 and 112 are designed to give the kind of informed perspective on economic principles and problems that is an integral part of a liberal education, as well as to provide a foundation for students to do further work in Economics. The group of intermediate courses offers a full 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 methodological and theoretical foundation for those planning to make use of economics in their professional careers. In the selection of courses the student is urged to take three of the following courses:

1. On leave, 1972-73.

301a, 303a, 304b, 305b. Students intending to do graduate work in Economics should take 302b, and Mathematics 101 and 201 and they should consult with members of the department about their plans before selecting their courses.

Prospective majors in Economics are advised to take Economics 111a,b and 112a,b by the end of the first semester of the sophomore year. For the academic year 1972-73 any student who has had either Economics 111a,b or Economics 112a,b can take intermediate and advanced courses in Economics with the permission of the instructor. As a general rule for later years, the prerequisites for intermediate and advanced level work will be Economics 111a,b, Economics 112a,b or permission of the instructor.

Allied Subjects: Mathematics, Political Science, History, Philosophy, Psychology, Sociology, Anthropology.

111a. *Introduction to Macroeconomics:* Members of the Department.

& b. The analysis of national economic behavior including prosperity and depression. Theories of inflation and unemployment. The role of government in managing and mismanaging the economy by influencing total national expenditure and by regulating financial institutions. The international role of the United States. Focus is on western mixed-capitalist economies.

112a. *Introduction of Microeconomics:* Members of the Department.

& b. Techniques of analysis which apply to all economic systems in general and modern mixed-capitalism in particular. Topics include: determination of costs and prices for goods and services; the functioning of the marketplace; causes of wealth, poverty, and income inequality; environmental protection; discrimination. The course is intended to provide a method of examining economic behavior which will continue to be useful in a changing economic world.

115a. *Economic Accounting:* Mr. Dixon (Haverford).

An introduction to the theory and practice of classifying, recording, and evaluating the activities of business firms. Development of the accounting cycle, and the preparation and analysis of corporate reports: balance sheet, income statement, funds of statement, and budgets. Introduction to selected corporate financial problems: capitalization,

leverage, the issuance of securities and the operations of organized securities markets.

201a. *Economic History and Development*: Mr. Grassby.

Long-term trends in output, resources, technology; structure of consumption, production, distribution; foreign trade and finance; basic causes of economic growth and underdevelopment; the role of the state. Quantitative findings provide the points of departure. Prerequisite: Economics 101a or b.

202b. *Latin American Development*: Instructor to be announced.

An analysis of factors contributing to the economic underdevelopment of Latin America and of their sources both in the historical background and in current policies.

[204b. *The Modern Corporation*.]

205a. *Private Enterprise and Public Policy*: Instructor to be announced.

An analysis of the character of markets. The behavior of firms within the framework of markets, the implications of monopoly and oligopoly power. Public policy relating to market power. The problem of externalities and public policy. Corporate ownership and corporate power. Prerequisite: Economics 101a or b.

206b. *International Economic Theory and Policy*: Mr. Farley.

Current problems in international trade. The theory of trade. The balance of payments and theory of disturbances and adjustment in the international economy. Economic integration. The impact of growth in rich and poor countries on the development of the world economy. Prerequisite: Economics 101a or b, or permission of the instructor.

207a. *Money and Banking*: Mrs. Hunter.

The development and present organization of the money and banking system of the United States; domestic and international problems of monetary theory and policy. Prerequisites: Economics 101a or b. Economics 301a, though not required, is highly recommended.

208a. *Public Finance and Fiscal Policy*: Mrs. Young.

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 or b.

- 209a. *The Politics and Economics of the City*: Mr. Gubins, Mr. Waldman (Haverford).

Problems of the city will be analyzed with tools that have been developed by political scientists and economists. The contrasting approaches of the two disciplines will be examined in the following problems: centralization versus decentralization; urban services, who pays and who benefits. The modes of political and economic analysis developed will be applied to two of the major policy areas of the 1970's: education and housing. Enrollment limited. Prerequisite: Political Science 151A (Haverford) or Economics 101A or B.

- 210a. *The Soviet System*: Mr. Hunter (Haverford).

An analysis of the structure and functioning of major Soviet economic, political and social institutions. Current conditions are studied as products of historical development. Prerequisite: two semester courses in Economics, Political Science or History.

- [212b. *Political Economy*.]

- 214b. *Economics of Minorities*: Mr. Dixon (Haverford).

Examination of contemporary economic theories and policies for positive and negative impact on minority groups, with primary focus upon Black people.

- 216b. *Western European Economic Development*: Mr. Grassby.

Selected topics in the economic history of Britain, France, Germany, and Italy since 1760 are examined, both theoretically, and empirically. Representative topics may include the Industrial Revolution, technological change, demographic trends, the growth of international trade and finance, the impacts of the World Wars, and the effects of national economic policies. Prerequisite: Economics 101A or B or permission of the instructor.

- [218b. *Labor Resources*.]

- [220b. *Mathematics for Economists*.]

- 222b. *History of Economic Thought*:

Examination of the contributions to economic thought of the Mercantilists, among others, Smith, Ricardo, Marx, Mill, Marshall and Keynes. Particular emphasis on the development of theories relating to economic growth, the stationary state, value and distribution, interna-

tional trade and the role of the state. Prerequisites: Economics 101a or b, or permission of the instructor.

- 300b. *Human Resources, Poverty and Urban Economics*: Mr. Gubins (Haverford).

Independent empirical research on selected manpower development, poverty, and urban problems of the Philadelphia region. Weekly seminars will be concerned with problems of research. Prerequisite: Economics 209a or permission of the instructor.

- 301a. *Statistical Methods in Economics*: Mrs. Hunter.

Frequency distributions, probability and sampling theory, simple correlation and multiple regression and an introduction to econometric terminology and reasoning. The computer programming and other techniques required are developed as part of the course. Prerequisites: Economics 101a or b.

- 302b. *Introduction to Econometrics*: Mrs. Hunter.

The econometric theory presented in Economics 301a is further developed and its most important empirical economic applications are considered. Each student will do a six-week empirical research project using multiple regression and other statistical techniques. Prerequisite: Economics 301a and the permission of the instructor.

- 303a. *Macroeconomic Analysis*: Mr. Gubins (Haverford).

Rigorous review of the theoretical foundations of income determination, monetary phenomena, and economic fluctuations. Introduction to dynamic processes. Prerequisite: Economics 101a or b.

- 304b. *Microeconomic Analysis*: Instructor to be announced.

Systematic investigation of analytic relationships underlying consumer welfare, efficient resource allocation, and ideal pricing. Introduction to operations research. Prerequisite: Economics 101a or b or permission of the instructor.

- 305b. *Development Analysis*: Mr. Hunter (Haverford).

Theoretical treatment of the structured 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 or b or permission of the instructor.

307b. *Communist Development*: Mr. Hunter.

Prerequisite: Economics 210a or permission of the instructor.

310b. *Applied Microeconomics*: Mr. Gubins (Haverford).

The models and analytical technique developed in microeconomic theory will be applied to problems of significance for public policy. Topics will be chosen from among those for which a theoretical and empirical literature exists to allow for an in-depth understanding of the contributions of economic analysis to these problems. Only two areas will be chosen each year. For 1972-1973 the areas are health services and environmental production. Prerequisite: Economics 304b (offered in 1972-1973 and alternate years), or permission of the instructor.

311a. *International Economics*: Mr. Farley.

Student research will involve constructing measures of recent developments between trading nations, testing hypotheses using existing data and current statistical techniques, or attempting extensions of international trade theory. Prerequisite: Economics 206b or permission of the instructor.

399. *Senior Conference*: Weekly two-hour seminars for which readings are assigned and reports are prepared. Semester I: economic theory; Semester II: topic to be chosen by the students. Each student will have the option of writing a paper or taking an examination.

Honors Work: One unit of Honors work may be taken by students recommended by the Department.

Interdepartmental Work: The Department of Economics participates in the Interdepartmental concentration in *Hispanic and Hispanic-American Studies*. See page 143.

Teaching Certification: A sequence of work offered by the Department of Economics and the Department of Education of the College leads to a certificate to teach in the secondary schools of Pennsylvania.

Education and Child Development

- Professors:* Ethel W. Maw, PH.D., *Chairman*
Janet L. Hoopes, PH.D., *Director, Child Study Institute*
Associate Professor and Director, Thorne School:
Susan E. Maxfield, M.S.
- Assistant Professors:* Emmy A. Pepitone, PH.D.
Faye P. Soffen, ED.D.
James J. Tracy, PH.D.
- Instructor:* Beth M. Riser, 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.

The Thorne School is maintained by the Department as a laboratory for child study where undergraduates have experience with young children. The pre-kindergarten program, in which advanced students assist, provides training for those planning to teach.

The Department also operates the Child Study Institute. This is a mental health service supported by the College, by the Lower Merion Township Schools and by fees. 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 and at the Institute.

[101b. *The Social Foundations of Education:* Mrs. Pepitone.]

102b. *History and Philosophy of Education:* Mrs. Pepitone.

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*: Mrs. Riser.

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. Prerequisite: Psychology 101.

301a. *Principles of Teaching in the Secondary School*: Mrs. Maw.

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; student teaching in the junior or senior high school.

302a. *Principles of Teaching in the Elementary School*: Mrs. Maw.

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; student teaching in the elementary school.

[303b. *Children with Reading Problems*: Mrs. Riser.]

[306a. *Child Psychology*: Mr. Tracy.]

[306b. *Adolescent Development*: Mr. Tracy.]

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 and in the major field or fields. 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 Psychology 101 followed by Education 101b and 201a or 306a or 306b. Required of all is Education 301a.

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.

Selected Graduate Seminars: For certain undergraduates who have taken Child Psychology or Educational Psychology the following graduate seminars are open upon the consent of the instructor with the permission of the Dean of Graduate School of Arts and Sciences.

Critical Issues in Child Development: Miss Hoopes.

Adolescent Development: Miss Hoopes.

Psychology of Exceptional Children: Mrs. Riser.

Diagnosis and Remediation of Learning Deficit: Mrs. Riser.

English

Professors: Robert B. Burlin, PH.D.,¹ *Chairman*

K. Laurence Stapleton, A.B.

Professor of English and the Performing Arts: Robert H. Butman, M.A.

Associate Professor: Thomas H. Jackson, PH.D.

Joseph E. Kramer, PH.D., *Acting Chairman*, Semester II

Assistant Professors: Roger W. Cummins, PH.D.

June Q. Koch, PH.D.²

Sandra I. Kohler, PH.D.

Clifford Earl Ramsey, PH.D.

Lecturers: Louise K. Barnett, PH.D.

Sandra M. Berwind, PH.D.²

E. Jane Hedley, M.A., *Class Dean*

Christie Lerch, PH.D.

Anthony J. Litwinko, M.A.

Ramona T. Livingston, A.B.

Adrienne Lockhart, PH.D.

Anne Mendelson, PH.D.

1. On leave semester II, 1972-73.

2. On leave, 1972-73.

Instructors: Susan K. Becker, M.A.

Katherine Janowitz, M.A.

Janis P. Stout, M.A.

The Department offers an opportunity to explore all periods of English literature. Through comprehensive reading as well as close analysis, the major in English seeks to develop a historical perspective, critical and writing abilities, and an understanding of the imaginative process.

Requirements in the Major Subject:

Prerequisite: English 101 (Bryn Mawr or Haverford) or its equivalent. Four second-year or advanced units in English literature and the Senior Conference.

At least one full unit must be at an advanced (300) level.

At least one-half unit must be in the literature of the Middle Ages.

(Students may in consultation with their departmental advisors take a portion of their work at Haverford.)

Allied Subjects: Majors are urged to build a strong ally in classical or modern literature, History, Philosophy, or History of Art. Other courses in Music, History of Religion, Political Science, Sociology and Linguistics may also be counted. A second-year writing course may be substituted for one unit of allied work.

Students contemplating graduate work in English are reminded that most graduate schools require a reading knowledge of French and German, and frequently Latin as well, for the Ph.D.

015. *English Composition and Reading:* Members of the Department.

Training in writing discursive prose, with emphasis on the critical analysis of a few works by selected authors. There will be weekly papers, two class meetings a week, and regular conferences. Brief descriptions of the topics and reading lists for 1972-73 will be sent to each student in May, to allow her to indicate her preference. (Note: there is one division of this course, called "Readings in English Literature," which may be substituted for the prerequisite to the English major. In this division there will be three class meetings a week, as well as more reading. The paper requirements are the same as for the other divisions.)

Writing Courses

Weekly papers are required in the following courses. Students who cannot meet this requirement should not elect any of these courses.

291a.* *Experimental Prose Writing*: Mr. Litwinko.

& b. Each student will attempt to develop a personal idiom which is imaginative and disciplined. Weekly exercises, group evaluations, and readings in both traditional and avant-garde fiction are required. Prerequisite: Permission of the instructor.

[292a.* *Fiction Writing*.]

& b.

[293.* *Advanced Writing*.]

[295a.* *Verse Composition*: Miss Stapleton.]

& b.

298a.* *Playwriting and Production*: Mr. Butman.

Writing of two original one-act plays.

298b.* *Advanced Playwriting and Production*: Mr. Butman.

Writing of a full-length play and preparation of its production-book.
Prerequisite: Permission of the instructor.

Literature

101a. *Major Works in English Literature*: Mrs. Barnett, Mrs. Janowitz, Mr.

& b. Ramsey; Mr. Ransom, Mr. Rose (Haverford).

This prerequisite to the English major, taught jointly at Haverford and Bryn Mawr, is the critical study, in chronological sequence, of major works by major authors, including Chaucer, Spenser, Shakespeare, Milton, Pope and Wordsworth, plus a major novel. The emphasis will be on close reading, and the continuity of traditions and modes in English and American literature.

201a. *Chaucer and His Contemporaries*: Mr. Burlin, Mrs. Lockhart.

& b. The first term will be devoted to a close reading of the *Canterbury Tales*. The second term will concentrate upon Chaucer's early poems and the *Troilus*, with supplementary readings from the Middle English period.

[209b. *Medieval Narrative: From Beowulf to Malory*: Mr. Burlin.]

- [210a. *Literature of the Sixteenth Century*: Mrs. Kohler.]
& b.
- 225a. *Shakespeare*: Mrs. Kohler.
& b. a. From *Titus Andronicus* to *Hamlet* (ca. 1589-1600). The non-dramatic poetry of Shakespeare will be read with specific reference to illuminating the dramas.
b. From *Troilus and Cressida* to *Henry VIII*.
- 228a. *Modern Drama*: Mr. Kramer.
& b. This course will attempt an inclusive survey of dramatic forms, theatrical movements, and aims and achievements of specific theatrical organizations in Europe and America from Ibsen to the present.
a. From Ibsen through Expressionism.
b. From the Group Theater (ca. 1931) to the present. Students who have not enrolled in a. will be admitted to b. only with the permission of the instructor.
- [240a. *Restoration and Eighteenth Century Literature*: Mr. Ramsey.]
& b.
- [251b. *The Romantic Poets: First Generation*: Mrs. Koch.]
- [252b. *The Romantic Poets: Second Generation*: Mrs. Koch.]
- 254a. *Victorian Literature*: Mr. Litwinko.
& b. An intensive study of important literary documents within the general context of Nineteenth Century British culture.
a. Carlyle, Tennyson, Browning, Arnold and others.
b. Swinburne, Meredith, Hopkins, Hardy, Wilde and others.
- 257a. *Nineteenth Century English Novel*: Mrs. Lockhart, Mrs. Janowitz.
& b. a. Selected novels in the period from Jane Austen to Dickens will be studied. Emphasis will be placed on the conceptions and development of literary forms. Some acquaintance with earlier and later fiction is desirable.
b. Selected novels of Dickens, Eliot, Meredith, Hardy and Conrad.
- 260a. *American Literature*: Mr. Cummins.
& b. The development of American literature from the colonial period to

the present, with intensive study of major authors and prominent themes. Some attention will be given to American intellectual history.

264a. *Racial Minorities in the Modern American Novel*: Mrs. Barnett.

This course will examine a group of important modern American novels with particular emphasis on the special problems of using racial minorities (Black and Indian) in fiction. Such matters as stereotyping in characterization and authorial expertise, and their effect on the total fictive construct will be considered.

270a. *Major Forces in Twentieth Century Literature*: Mr. Jackson.

& b. Twentieth-century literature in its relationship to earlier literary and intellectual traditions, principal themes, and technical achievements, seen through extensive study of selected major twentieth-century writers.

283a. *Women Writers*: Mrs. Lockhart.

A number of women writers from different historical periods will be read; the course will focus on their contribution as women to the literary tradition. Students should be familiar with some works by George Eliot, Virginia Woolf and Doris Lessing.

The following courses are open primarily to advanced students; enrolment will be restricted at the discretion of the instructor.

[300. *Old English Literature*: Mr. Burlin.]

[301a. *Readings in the Middle English Literature*: Mr. Burlin.]

[321a. *English Drama to 1642*: Mr. Kramer.]

& b.

[323a. *Renaissance English Tragedy*: Mr. Kramer.]

[325a. *Studies in Shakespeare*: Mrs. Kohler.]

326a. *The Theatre of Ben Jonson*: Mr. Kramer.

This course will investigate comedic forms in the later English renaissance theater. Although specimen plays of other dramatists will be considered, the emphasis will be placed upon the innovative genius of Ben Jonson, including his sophistication of the Court Masque.

330a. *The Seventeenth Century*: Miss Stapleton.

& b. The first semester will be devoted to the Metaphysical poets, especially Donne, and major prose writers such as Bacon and Sir Thomas Browne. An opportunity will be given for students who are interested to study some of the women writers of the period. The second term is devoted primarily to Milton.

341a. *The Augustan Age*: Mr. Ramsey.

Close analysis of selected masterpieces of the major Augustan writers from Congreve to Fielding. Pope and Swift will receive the main emphasis.

[352a. *Theory and Structure in the Poetry of the Nineteenth Century*: Mrs. Koch.]

[371a. *The Development of Modern Poetry*: Mr. Jackson.]

381b. *The Sonnet*: Mrs. Kohler.

The Elizabethan sonnet sequence (Sidney, Daniel, Drayton, Spenser, Shakespeare) with some study of its origins in Italian and French renaissance poetry, and then some attention to the later development and use of the sonnet form in Donne, Milton, Wordsworth, Meredith and Hopkins.

382b. *Pastoral and Landscape Literature*: Mr. Ramsey.

Studies in the imaginative creation of ideal landscapes and the figurative interpretation of actual landscapes in selections from authors such as Vergil, Shakespeare, Spenser, Milton, Marvell, Pope, Keats, Stevens, Faulkner and Frost.

389a. *Studies in Twentieth Century Criticism*: Mr. Jackson.

Study of the sources, techniques and philosophical bearings of the dominant modes of modern critical thought, centering on Coleridge, Arnold, Ruskin, Richards, Leavis, Empson, Brooks and Frye.

399. *Senior Conference*: The Senior Conference will continue for the entire year and will focus upon a core of reading, determined in advance by the two instructors for each semester. The reading will consist of substantial and significant works drawn from all periods of English and American literature, ranging from the late medieval period to the modern.

Majors in English will be expected to know the works in advance—either through course work or summer reading. The conferences will consider kinds of critical approaches to these works and will demand further reading, as well as reports by the students. A work may be considered in its historical context (political, philosophical, occasional background); in the context of other works by the author (for both thematic and formal comparison); in the context of other works of the same period; and, for structural and generic studies, in the context of the entire spectrum of English and American literature. Concurrently the student will become acquainted with examples of practical and theoretical criticism which exemplify these various approaches.

At the end of the year the students will be examined by a committee of three members of the Department *not* involved in supervision of the conference. The examination will be written; questions will be of a broad sort that will allow for many kinds of exemplification as well as intelligent use of supplementary and secondary reading. The student will also be allowed two other options. With the approval of the instructors, she may present a paper of approximately twenty pages on a topic of her choosing related to the core reading. (Such an alternative will have to be decided upon early in the second semester and be contingent upon full participation in the seminar work.) Secondly, the student may present herself to the Examination Committee for a fifty-minute oral examination. The grade for the year will be determined by the Examination Committee in consultation with the conference instructors.

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 the Friday two weeks before the end of classes.

Teaching Certification: A sequence of work offered by the Department of English and the Department of Education of the College leads to a certificate to teach in the secondary schools of Pennsylvania.

French

Professors: Michel Guggenheim, PH.D.

Mario Maurin, PH.D.

Visiting Professor: William Roach, PH.D.

Associate Professors: Gérard Defaux, Agrégé

Pauline Jones, PH.D., *Chairman*

Assistant Professors: Charles Altman, PH.D.

Catherine Lafarge, PH.D.

Assistant: Joelle Stopkie, M.A.

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. 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 regular sessions devoted to special training in writing French. A second-year half-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 001, 002 and 205c, 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 summer at the *Institut* in Avignon or by study abroad during the sophomore or junior year. Residence in French House for at least one year is advisable.

Requirements in the Major Subject: French 101, four semesters of 200-level courses, two semesters of advanced literature courses and the Senior Conference. Students whose preparation for college has included advanced work in language and literature may, with consent of the Department, substitute a more advanced course for French 101. Occasionally, students may be admitted to seminars in the Graduate School. Such arrangements are made at the suggestion of the Department, with the approval of the Dean of the Graduate School of Arts and Sciences.

All French majors are expected to have acquired fluency in the French language (written and oral). When necessary, they will be required to take French 205c.

Allied Subjects: Any other language or literature, European History, History of Art, Music, Philosophy.

001. *Elementary French:* Members of the Department.

The speaking and understanding of French are emphasized, particularly during the first semester. The course meets five times a week.

002. *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.

101. *Readings in French Literature with Practical Exercises in the French Language:* Members of the Department.

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.

201a. *French Literature of the Seventeenth Century:* Mr. Altman.

The course will cover representative authors and literary movements. Special attention will be given to the concept of the Baroque, the development of Tragedy and the Age of Classicism.

201b. *French Literature of the Eighteenth Century:* Miss Lafarge.

The course will include texts representative of the Enlightenment and the Preromantic movement, with emphasis upon the development of liberal thought as illustrated in the *Encyclopédie* and the works of Montesquieu, Voltaire, Diderot, and Rousseau.

202a. *French Literature of the Nineteenth Century:* Mr. Guggenheim, Mr. Maurin.

The poetry, drama and prose of Romanticism. A study of representative novelists such as Stendhal, Balzac, and Flaubert. Poetry in the second half of the century: the aesthetics of the Parnasse, Baudelaire, the Symbolist movement.

202b. *French Literature of the Twentieth Century:* Mr. Guggenheim, Mr. Maurin.

A study of selected works illustrating the principal literary movements from the turn of the century to the present. Gide, Proust, Valéry, Claudel, Surrealism, Existentialism, the Theater of the Absurd, the New Novel.

[203a. *French Literature of the Middle Ages*: Mr. Defaux.]

204a. *French Literature of the Sixteenth Century*: Mr. Defaux.

A study of the development of Humanism, the concept of the Renaissance, Reformation. The course will focus on representative works, with special attention given to the prose of Rabelais and Montaigne, the *conteurs*, the poetry of Marot, the Pléiade and d'Aubigné.

205a. *Narrative Technique in Continental Fiction*: Mr. Altman.

See Interdepartmental course 205a., page 144.

205b. *Don Juan in European Literature*: Mr. Maurin.

See Interdepartmental course 205b., page 144.

205c. *Advanced Training in the French Language*: Mr. Guggenheim, Mr. Maurin.

Intensive practice in writing and speaking the language. Compositions, literary translations, oral reports and discussions.

290. *The Civilization of France*: Mr. Silvera.

(INT.) Conducted in French, this course studies the development of modern French life and culture in its historical context and explores the values and attitudes of French society as manifested in literature and the arts, politics, education and religion. Prerequisite: a good command of French. Serves as the introductory course for French Studies majors but open to other qualified students.

[301. *French Lyric Poetry*.]

[302. *French Drama*.]

[303. *The French Novel*.]

305a. *Molière*: Mr. Defaux.

305b. *Apollinaire, Supervielle, Césaire*: Miss Jones.

306a. *Le thème de Paris dans la littérature française*: Miss Lafarge.

(INT.)

306b. *La femme dans la littérature française*: Miss Lafarge.

Courses at Haverford

- 311a. *Catholic and Protestant Writers*: Mr. Cook.

The art and religious climate of selected works of Gide, Mauriac, Bernanos, Hawthorne.

- 311b. Topic to be announced: Mr. Gutwirth.

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 France under one of the junior year plans, such as those organized by Hamilton, Sarah Lawrence, Smith, Sweet Briar Colleges, or l'Académie.

Summer Study: Students wishing to enroll in a summer program may apply for admission to the *Institut d'Etudes françaises d'Avignon*, held under the auspices of Bryn Mawr. The *Institut* is designed for selected men and women undergraduate and graduate students 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, social sciences, 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.

399. *Senior Conference*: A weekly seminar on representative works of French literature followed at the end of the year by an oral explication of a French literary text and a three-hour written examination.

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.

Interdepartmental Work: The Department of French participates in the Interdepartmental majors: *French Studies* and *The Growth and Structure of Cities*. See page 140.

Teaching Certification: A sequence of work offered by the Department of French and the Department of Education of the College leads to a certificate to teach in the secondary schools of Pennsylvania.

Geology

Associate Professor: Lucian B. Platt, PH.D., *Chairman*

Assistant Professors: Maria Luisa B. Crawford, PH.D.¹

William A. Crawford, PH.D.

W. Bruce Saunders, PH.D.

Assistants: Lynn David Haynes, B.S.

John LaNeve Molinary, B.S.

Research Associates: Edward H. Watson, PH.D., *Professor Emeritus*

Ralph Moberly, PH.D., *Visiting Lecturer*

The Department seeks to make students more aware of the physical world around them. The subject includes a study of the nature of the materials of which the world is made, of the physical processes which have formed the earth, especially near the surface, of the history of the earth and its organisms, and of the various techniques necessary to investigate earth processes and history. 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 outside the classroom, in field work.

Requirements in the Major Subject: Geology 101, 201, 202a, 204a, one advanced unit. 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. In addition, the Senior Conference is required. Students are encouraged to meet some of the major and allied requirements by advanced standing or placement examinations.

Allied Subjects: Biology, Chemistry, Physics, Mathematics; Astronomy, Anthropology, Archaeology, Economics or Statistics may be accepted in special cases.

101a. *Physical Geology:* Mrs. Crawford, Mr. Crawford.

A study of materials and structures of the earth; surface and near-surface processes such as the action of streams, glaciers, and volcanoes; and of the features to which they give rise. Three lectures, four hours laboratory or field work a week.

1. On leave semester II, 1972-73.

- 101b. *Historical Geology*: Mr. Platt, Mr. Saunders.

The history of the earth from its beginning, and the evolution of the living forms which have populated it. Three lectures, four hours laboratory or field work a week. A three-day field trip is taken in the spring. Prerequisite: Geology 101a or equivalent.

- 121a. *Geology* (Bryn Mawr) and *Astronomy* (Haverford): Mr. Platt; Mr. Green (Haverford).

Current observations on the Earth and Planets. Prerequisite: Mathematics 101.

- 201a. *Crystallography*: Mrs. Crawford.

The study of crystal systems and space groups, optical crystallography and crystal chemistry. The emphasis will be on the relation between the physical properties of crystalline substances and their structures and chemical constitution. Three lectures, four hours laboratory a week. Prerequisite: Permission of instructor.

- 201b. *Mineralogy*: Mr. Crawford.

Descriptive and determinative mineralogy and mineral paragenesis. Three lectures, four hours laboratory a week. Prerequisite: Geology 201a.

- 202a. *Invertebrate Paleontology*: Mr. Saunders.

A systematic survey of animal groups in geologic time, with emphasis on their morphology, ecology and evolution. Three lectures, three hours laboratory a week. Prerequisite: Geology 101 or permission of instructor.

- [203b. *Physiography*: Mr. Crawford.]

- 204a. *Structural Geology*: Mr. Platt.

Recognition and description of deformed rocks; introduction to mechanics and patterns of deformation. Three lectures and three hours laboratory or field work a week. Prerequisite: Geology 101 or permission of instructor.

- [205b. *Introduction to Geochemistry*: Mr. Crawford.]

- 302b. *Advanced Paleontology*: Mr. Saunders.

Principles, theory and application of various aspects of paleontology such as evolution, biostratigraphy. Laboratory project-oriented, to in-

clude practical applications dependent on student and instructor's particular areas of interest. Three lectures, three hours of laboratory each week (with occasional augmentation by field work). Prerequisite: Geology 202a or permission of instructor.

303a. *Thermodynamics for Geologists*: Mr. Crawford.

An elementary treatment of thermodynamics and crystal chemistry as applied to geological systems. The laboratory consists of determination of thermodynamic properties, phase equilibria experiments, and familiarization with basic electronics as applied to laboratory apparatus. Three lectures and three hours of laboratory a week. Prerequisites: Geology 101, Geology 201, Chemistry 101, or consent of instructor.

303b. *Advanced Geochemistry*: Mr. Crawford.

A review of selected topics in geochemistry. The laboratory consists of wet chemical and instrumental methods of analysis of silicate materials and natural waters. Two lectures and four hours laboratory a week. Prerequisite: Geology 303a or permission of instructor.

[304. *Introduction to Petrology*: Mr. Saunders, Mrs. Crawford, Mr. Crawford.]

[305b. *X-ray Crystallography*: Mrs. Crawford.]

306b. *Stratigraphy*: Mr. Platt, Mr. Saunders.

Principles, theory, and criteria for recognition of processes of formation of sedimentary rocks. Environments of deposition, basic stratigraphic relations, and interpretations of specific lithotopes. Three lectures a week. Field trips. Prerequisite: Geology 202a.

399. *Senior Conference* shall consist of:

1. "Topics in Geology," led by members of the Department.
2. A written report on an independent project in the field, laboratory or library.

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 with the approval of the Dean of the Graduate School of Arts and Sciences.

German

Professor: Hans Bänziger, PH.D.

Associate Professors: Marie G. Flaherty, PH.D., *Chairman*
Nancy C. Dorian, PH.D.

Assistant Professor: James W. Scott, PH.D.

Lecturer: Katrin T. Bean, PH.D.

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 001 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 001 and 201 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.

The German Departments of Bryn Mawr College and Haverford College cooperate to offer the widest possible range of courses to students in both colleges.

Requirements in the Major Subject: The normal course sequence for the major is German 101, 201a or b, 202, 300a, and at least one other advanced unit. The Senior Conference is also required. 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.

001. *Elementary German* (Speaking and Reading): Members of the Department.

The course offers the foundation of the language with emphasis on the aural-oral method. Increased importance is given to reading as the course progresses.

101. *Readings in German Literature*: Members of the Department.
Continued practice in speaking and writing. Reading and discussion of selected works of German literature, including poetry, novellae, and drama. Emphasis will be on nineteenth and twentieth century authors.
- 150a. *Advanced Training in the German Language*: Mrs. Marshall (Haverford), and Mr. Bänziger.
- 201b. First semester at Haverford. Advanced training in speaking, writing, translating; stylistic exercises; reading of non-fictional material; oral reports and discussions; compositions. Second semester at Bryn Mawr. In the second semester the emphasis will be on the spoken language. Short plays will be read and possibly produced.
- 202a. *Goethe and Schiller*: Mr. Scott.
Representative works will be read and examined closely. Special attention will be given to their historical and aesthetic backgrounds as well as their position in the history of German literature.
- 202b. *Romanticism*: Miss Flaherty.
A study of works by Novalis, Tieck, Hoffmann, Kleist, Brentano and Eichendorff with emphasis on their relationship to the major artistic, intellectual and social trends of the time.
- 300a. *A Survey of German Literature*: Mr. Bänziger.
In the form of lectures, this course is intended to provide the literary-historical background (from the Middle Ages to the present) for studies in German literature.
- [301b. *Introduction to Germanic Philology*: Miss Dorian.]
- [302a. *Vernacular Literature in Medieval Germany*: Mr. Scott.]
- [304b. *The German "Novelle"*: Mr. Scott.]
- 305a. *The Modern German Drama*: Mr. Bänziger.
Trends in German drama from Hofmannsthal to Handke; discussion of the most important modern plays, among them those of Brecht and Dürrenmatt.
- [306a. *German Poetry*: Mr. Bänziger.]
- 307b. *The Literature of Reformation*: Mr. Scott.
The course will investigate the medieval forerunners of the Reformation.

mation in mysticism and drama. Study will concentrate on the German literary culture of four of the Sixteenth Century's great urban centers: Basel, Strassburg, Nuremberg, Prague.

Courses at Haverford

055. *German for Reading Knowledge*: Mrs. Marshall.

353. *The Twentieth Century*: Mr. Cary.

In translation: 272a. Thomas Mann's *Dr. Faustus*.
278b. *Expressionism*.

399. *Senior Conference*:

Each major is expected (1) to write a paper under the supervision of a member of the department, (2) to participate in a conference during the second semester, (3) to take an oral examination on the topics discussed in the conference at the end of the year.

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.

Teaching Certification: A sequence of work offered by the Department of German and the Department of Education of the College leads to a certificate to teach in the secondary schools of Pennsylvania.

Greek

Professor: Mabel Louise Lang, PH.D., *Chairman*

Assistant Professors: Gregory W. Dickerson, PH.D.

Richard Hamilton, 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: 001, 101a, 201, 301, one other half-unit course and the Senior Conference. Prospective majors in Greek are advised to take Greek 001 in the freshman year.

Allied Subjects: Ancient History, Classical Archaeology, History of Art, History of Religion, any language, Philosophy.

001. *Elementary Greek:* Miss Lang.

Semester I: elements of grammar, prose composition, reading, readings from ancient authors and the *New Testament*. Semester II: Plato's *Apology* and *Crito*; sight readings in class from Euripides' *Alcestis*.

101a. *Herodotus:* Mr. Dickerson.

After a review of Attic Greek with Plato's *Republic I* the reading is Book VI of Herodotus; prose composition is required.

101b. *Tragedy:* Mr. Hamilton.

Sophocles' *Antigone* and Euripides' *Medea*; a critical literary paper is required.

102a. *Homer:* Mr. Hamilton.

Several books of the *Odyssey* are read, and verse composition is attempted.

201a. *Plato and Thucydides:* Mr. Dickerson.

The *Symposium* and an abridged version of the Sicilian Expedition, with required prose composition.

201b. *Hesiod and Tragedy:* Mr. Hamilton.

The Works and Days, Euripides' *Bacchae* and Sophocles' *Oedipus Tyrannus*; a critical literary essay is required.

[203. *Greek Literature in Translation.*]

213a. *Myth in Practice and Theory:* Miss Lang. See Interdepartmental course (INT.) 213a., page 144.

214b. *Development of Greek Tragedy:* Mr. Hamilton.

Greek tragedies will be read in translation and examined not only for internal coherence and poetic vitality but also for continuity within the works of one poet and within the genre as a whole.

301a. *Lyric Poets:* Mr. Hamilton.

Early elegiac, iambic and lyric poetry, including the odes of Pindar.

- 301b. *Aeschylus and Aristophanes*: Mr. Dickerson.
Aeschylus' *Agamemnon* and Aristophanes' *Frogs*.
399. *Senior Conference*: Weekly meetings with the members of the Department to explore in depth one or two areas (such as Homer and Oral Poetry, the Lyric Age of Greece, Attic Tragedy, the Golden Age of Athens, Biography and Rhetoric in Early Greek History, Folklore and Mythology in Greece). Oral reports will be scheduled throughout the year, and at the end there will be a written examination in sight translation from Greek to English and whatever other evaluation of the conferences each group deems appropriate.

Students doing their major work in Greek only will be expected to elect two conference areas; those doing a double major or a minor in another field will elect only one. A student majoring in another field may be admitted to one of the conferences without being liable for the translation examination.

For work in Greek History see History 205b.

Honors Work: Honors may be taken by qualified seniors either in conjunction with the advanced course or after its completion.

Interdepartmental Work: The Department of Greek participates in the Interdepartmental majors: *Classical Languages* and *Classical Studies*. See page 139.

History

Professors: Arthur P. Dudden, PH.D.,¹ *Chairman*

Elizabeth Read Foster, PH.D.,² *Dean of the Graduate School of Arts and Sciences*

J. H. M. Salmon, M.LITT., LIT. D., *Acting Chairman*, Semester I

James Tanis, TH.D., *Director of Libraries*

1. On leave semester I, 1972-73.

2. On leave, 1972-73.

Associate Professors: Charles M. Brand, PH.D.¹

Mary Maples Dunn, PH.D.

Barbara M. Lane, PH.D.²

Alain Silvera, PH.D.

Assistant Professor: Charles A. Culotta, PH.D.¹

Lecturers: Phyllis S. Lachs, PH.D., *Associate Dean and Acting Dean of the Graduate School of Arts and Sciences.*

Jean B. Quandt, PH.D.

Gabrielle Schupf Spiegel, M.A.

Visiting Lecturers: Herbert Aptheker, PH.D.

Kathryn L. Morgan, PH.D.

Professor of Greek: Mabel Lang, PH.D.

Professor of Social Work and Social Research: Milton D. Speizman, PH.D.

Associate Professor of Classical and Near Eastern Archaeology: Carl Nylander, PH.D.

Lecturer in Latin: Jon-Henri Damski, M.A.

The History major is designed to enable the student to acquire historical perspective and historical method. Courses stress the development of ideas, cultures and institutions—political, social and economic—rather than the accumulation of data about particular events. Students study some topics and periods intensively in order to learn the use of documentary material and the evaluation of sources. Extensive reading is assigned in all courses to familiarize majors with varied kinds of historical writing and, in most courses, critical or narrative essays are required.

Requirements in the Major Subject: Students are expected to complete four units of History and two units of allied work meaningfully related to the discipline of History. The basic selection of courses is planned in the spring of the sophomore year and depends upon the special interests of each student together with the availability of courses. History 111-

1. On leave, 1972-73.

2. On leave, semester II, 1972-73.

112 will ordinarily be required of all History majors, but it will not satisfy the departmental distribution requirements. A suitable distribution of work to be undertaken by History majors should include at least: 1) one European course; 2) one American or non-European course; 3) one ancient, medieval, or early modern course concentrated before 1789; 4) one modern course concentrated after 1789. A particular course may very well satisfy more than one of the above qualifications. History majors will, in addition to the foregoing requirements, participate in the Senior Conference.

Allied Work: A wide choice is open to majors in History; in general those in modern fields will find courses in the Social Sciences most suitable, while those in earlier periods may select, with the permission of the departments concerned, courses in classical studies, in Philosophy and History of Art. Intermediate or advanced courses in literature and in language may also serve to enrich the major offering.

111. *Western Civilization:* Members of the two Departments.

112. A Bryn Mawr-Haverford combined course surveying Western European civilization from the fall of Rome to the present. The course deals with both institutional and intellectual currents in the Western tradition. Conferences, discussions and lectures deal with both primary materials and secondary historical accounts.

[190. *The Form of the City:* Mrs. Lane.]
(INT.)

200a. *Urban Society:* Mrs. Lane, Mr. Marc Ross, members of the Committee (INT.) on the Growth and Structure of Cities. See Interdepartmental Course 200a, page 141.

201. *English History:* Mr. McKenna (Haverford).

The evolution of English institutions from Roman times to the Tudors.

202. *The United States of America:* Mr. Lane (Haverford).

A study of American life in the eighteenth, nineteenth, and twentieth centuries with emphasis upon the formation of the Republic and its subsequent transformations.

203. *Medieval European Civilization:* Mrs. Spiegel.

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.

[204. *Europe, 1789-1848*: Mr. Silvera.]

205a. *The Ancient Near East*: Mr. Nylander.

An introduction to the history of the ancient Near East from the beginning of the third millennium B.C. to the rise of the Persian Empire. The sources and nature of the earliest history of Egypt and Mesopotamia; the international developments in Western Asia and Egypt during the second millennium B.C.; the Dark Ages and survival of traditions in the Near East at the beginning of Greek history.

205b. *Ancient Greece*: Miss Lang.

A study of Greece from the Trojan War to Alexander the Great, with particular attention to the constitutional changes from monarchy, through aristocracy and tyranny, to democracy in various parts of the Greek world. The stress will be on ancient sources, including historians, inscriptions and archaeological and numismatic materials.

206a. *Roman History*: Mr. Damski.

The rise of Rome in Italy, contacts with the Hellenistic world, and the growth of the Roman Empire. Reading from source material and an essay will be required.

206b. *Roman History*: Mr. Damski.

The Roman Empire and the Hellenistic world to the reign of Constantine I.

[207. *Latin America: Colonies and Revolutions*: Mrs. Dunn.]

[208. *Byzantine History*: Mr. Brand.]

209. *Early American History, 1607-1789*: Mrs. Dunn.

In the first semester, an investigation of the founding of the English colonies in North America and the West Indies, and their development in the seventeenth and early eighteenth centuries. In the second semester, emphasis will be placed on the causes and interpretations of the Revolution, the writing and ratification of the Constitution.

[210a. *Topics in the History of the Near East*: Mr. Silvera.]

- 210b. *Topics in the History of the Near East*: Mr. Silvera.
A survey of the Arab world and Turkey from the rise of Islam to the Arab-Israeli wars, concentrating on the impact of the West and the growth of Arab nationalism.
- [211b. *Medieval Mediterranean World*: Mr. Brand.]
- [212. *Renaissance and Reformation*: Mr. Salmon.]
- [225. *Europe since 1848*: Mr. Spielman (Haverford).]
- [227. *The Age of Absolutism*: Mr. Spielman (Haverford).]
230. *A History of the Afro-American People*: Mr. Aptheker.
A two-semester course concentrating upon the experiences, concepts, organizations and struggles of the Black people in the United States. The time range will be from the commencing of the modern slave trade in the fifteenth century to the present era; attention will be given to the intertwining of this history with United States and world history.
- 231a. *Introduction to Folk History*: Mrs. Morgan.
An introduction to the theories, methods and documents used in folk historical research. It involves comparative analysis of myths, rituals, folktales, legends and other aspects of traditional culture transmitted orally or otherwise. The centrality of religion, superstition, magic, sorcery and witchcraft to folk history will be explored. Examples will be drawn from the Americas, Europe, Africa and Asia.
- 231b. *The Study of Black Folk History*: Mrs. Morgan (Haverford).
This course will be an investigation of the sources, problems and methods involved in the study of Black history with special emphasis on folk history. Examples will be drawn from the period of the slave trade to the present. Some work will be done off campus.
- 232a. *The Ex-Slave Narrative as a Source for Black Folk History*: Mrs. Morgan.
An exploration of folklife as reflected in ex-slave autobiographies collected in the 1920's and 1930's. Emphasis will be placed on the relationship of the narratives to the understanding of the Black experience in the United States.
- [240b. *History and Principles of Quakerism*: Mr. Bronner (Haverford).]

244. *Russian History*: Mrs. Gerstein (Haverford).
A topical study of Russian history from Kiev to the death of Lenin. The first semester will deal with the problem of Russian medieval culture, the growth of Muscovite absolutism, and the impact of the West in the eighteenth century; the second semester will cover modernization, the growth of the radical intelligentsia and the Russian Revolution to 1924.
- [260. *Germany since 1815*: Mrs. Lane.]
- 261a. *Traditional China*: Mrs. Borei (Haverford).
A general survey of Chinese civilization to the beginning of the nineteenth century. Lectures and discussions will deal topically with such themes as Confucianism and the growth of the Chinese bureaucracy.
- 262b. *History of Japan*: Mrs. Borei (Haverford).
A general survey of Japan's institutional and cultural development, concentrating on the pre-modern and Meiji periods.
- [270b. *Medieval Cities: Islamic, Byzantine and Western*: Mr. Brand.]
(INT.)
290. *The Civilization of France*: Mr. Silvera.
(INT.) Conducted in French, this course studies the development of modern French life and culture in its historical context and explores the values and attitudes of French society as manifested in literature and the arts, politics, education and religion. Prerequisite: a good command of French. Serves as the introductory course for French Studies majors but open to other qualified students.
- [300b. *The American City in the Twentieth Century*: Mr. Speizman.]
(INT.)
- 301a. *Europe in the Twentieth Century*: Mrs. Lane.
Great Britain and continental Europe from 1914 to the present.
302. *France, 1559-1661*: Mr. Salmon.
The period from the religious wars to the personal rule of Louis XIV is treated as a unity in which revolutionary changes occurred in the structure of French society. These changes are examined in the light of French literature and political thought in the period.

303. *Recent History of the People of the United States*: Mrs. Quandt.
Studies of social change and response beginning with the late nineteenth century, together with considerations 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.
- 305a. *The Italian City-State in the Renaissance*: Mrs. Lane.
(INT.) Out of its medieval setting the evolution of the urban civilization of Northern Italy will be examined within its socio-economic as well as its cultural context. Not only Florence, but the other major city-states as well will be investigated in detail.
- [310b. *Mexico: A Study in Tradition and Revolution, Historical Continuity and Change*: Mrs. Dunn.]
- 311b. *Colonial Towns in North and South America*. Mrs. Dunn.
(INT.) A comparative examination of the origins of selected towns.
- [312b. *History of Women in America*: Mrs. Dunn.]
- [313a. *History of Science: Antiquity to the Renaissance*: Mr. Culotta.]
(INT.)
- [314a. *The Rise of Modern Science*: Mr. Culotta.]
& b.
(INT.)
- 315a. *Topics in Modern British History*: Mrs. Lachs.
Topics will be chosen from 1688 through the Edwardian Age, including the evolution of political and social institutions, intellectual history, and Ireland.
- [320a. *Holland's Golden Age*: Mr. Tanis.]
- [321b. *Revolution within the Church*: Mr. Tanis.]
- 325b. *Life and Works of W.E.B. DuBois*: Mr. Aptheker.
An analytical survey of the main themes in the life and writings of DuBois, chief founder of the modern Black liberation movement, and of the Pan-African movement. His work as novelist, editor, journa-

list, historian, sociologist, anthropologist, agitator-organizer will be examined in terms of the times in which he lived and the impact he had. Papers and reports by students will be emphasized. Prerequisite: History 230.

- [330. *France since 1870*: Mr. Silvera.]
- 340a. *Topics in American History*: Mr. Lane (Haverford).
- 345a. *Topics in Far Eastern History*: Mrs. Borei (Haverford).
- [351a. *Regional History: Westward Expansion*: Mr. Bronner (Haverford).]
- 355b. *Topics in European History: The Rise of the Habsburg Empires, 1500-1715*: Mr. Spielman (Haverford).
- 356b. *Topics in Russian and Modern European History*: Mrs. Gerstein (Haverford).
- [358a. *Topics in Medieval English History*: Mr. McKenna (Haverford).]
- [370a. *The Great Powers and the Near East*: Mr. Silvera.]
399. *Senior Conference: The Historical Discipline*: Mr. Salmon and members of the Department.

This program will center on the philosophy of History encompassing History's underlying concepts as well as historiography and methodology.

Honors Work: Honors work in any of the advanced fields is offered for the senior year to any History major who completes her third year with a record of distinction. An essay based on source material must be presented.

Interdepartmental Work: The Department of History participates in the Interdepartmental Majors: *French Studies* and *Growth and Structure of Cities*. See pages 140 and 141.

Teaching Certification: A sequence of work offered by the Department of History and the Department of Education of the College leads to a certificate to teach in the secondary schools of Pennsylvania.

History of Art

Professors: Charles Mitchell, B.LITT., LITT.D., *Chairman*

James E. Snyder, M.F.A., PH.D.¹

Associate Professor: Charles G. Dempsey, M.F.A., PH.D.

Assistant Professor: Arthur S. Marks, PH.D.

Lecturer: Dale Kinney, M.A.

Assistant: Scott J. Schaefer, M.A.

Associate Professor of Fine Art: Fritz Janschka, *Akad. Maler*

The Department regularly offers an introductory course (involving some studio work), a series of general intermediate courses and more concentrated advanced half-courses, and instruction on special topics to majors in their senior year. The program is open also to undergraduates of Haverford College.

Requirements in the Major Subject: At least four units of course-work in art history, normally including Art 101 and always one unit of advanced course work, together with the Senior Conference and two units of allied work. Intermediate courses with supplementary work may sometimes be counted as advanced at the discretion of the Department.

Students contemplating a major in History of Art are strongly advised to consult the Department as early as possible in their College careers, especially with regard to language preparation.

Allied Subjects: History, Latin, Greek, modern languages, Archaeology; others in consultation with the Department.

101. *Introduction to Art History:* The Department.

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.

Intermediate courses:

210. *Early Medieval and Byzantine Art:* Mrs. Kinney.

212. *Renaissance Art:* Mr. Mitchell.

1. On leave, 1972-1973.

213. *Baroque Art*: Mr. Dempsey.

214. *Modern Art*: Mr. Marks.

Advanced courses:

330a. *The Macedonian Renaissance*: Mrs. Kinney.

332b. *German Renaissance Art*: Mr. Mitchell.

333b. *Flemish Baroque Art*: Mr. Dempsey.

334a. *Victorian Painting*: Mr. Marks.

Courses at the 300-level are open to art-history majors and to other students by permission of the instructor.

399. *Senior Conference*: Members of the Department hold regular conferences with senior majors on their special subjects. The evaluation is in three parts, each of three hours:

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 topic.

Honors Work: Offered to students on invitation of the Department.

History of Religion

Professor: Howard C. Kee, PH.D., *Chairman*

Associate Professor: Samuel T. Lachs, PH.D.

Visiting Lecturers: David Rabi, M.A.

P. Linwood Urban, TH.D.

Resident in Religion: Joseph Sittler, D.D., LL.D.

Professor of Philosophy: Jean A. Potter, PH.D.

Director of Libraries and Professor of History: James Tanis, TH.D.

At Haverford:

Provost and Professor of Religion: Gerhard Spiegler, PH.D.

Associate Professor of Religion: Richard Luman, PH.D.

Assistant Professor of Religion: Daniel Larkin, M.A.

The History of Religion major concentrates on the historical study of the religious traditions which have contributed most to shaping the culture of the West: The Religion of Israel, Judaism and Christianity. The student is expected to achieve facility in critical analysis of the primary sources of these traditions and in tracing their development against the background of the cultural situations in which they arose and matured.

Requirements in the Major Subject: At least four courses in History of Religion, of which three must be in the history of Judaism or Christianity and one in another religious tradition (e.g. Hinduism or Buddhism). The Senior Conference is also required.

The normal pattern for the major consists of one introductory course (100 level), two intermediate courses (200 level) and two advanced half-courses or a full-year course (300 level). Students in advanced courses who are majoring in History of Religion are required to demonstrate a working knowledge of the language appropriate to their field of concentration: Hebrew for the Religion of Israel or Judaism, Greek for New Testament or Early Christianity, Latin for Medieval Christianity, German for the Reformation Period.

Allied Subjects: Philosophy, History, History of Art, Archaeology, Anthropology.

001. *Elementary Hebrew:* Mr. Rabi.

Grammar, composition and conversation with primary emphasis on fluency in reading. Course designed for preparation in reading classical religious texts.

101. *Intermediate Hebrew:* Mr. Rabi.

Readings in prose passages of the Hebrew Bible. Course will include Hebrew composition, grammar, and conversation based on the Hebrew text.

103a. *History and Literature of the Bible:* Mr. Kee.

- & b. a. A study of the history of Israel and its sacred literature against the background of the ancient Near East, the development of the legal, prophetic and wisdom traditions. b. The beginnings of Christianity, tracing the influences of Judaism and of Hellenistic culture and religion on the life and thought of the New Testament community.

- 104a. *History and Literature of Judaism*: Mr. Lachs.
& b. Historical study of Judaism from the Exile through the Geonic period, with major focus on the literature.
- [201b. *Topics in Old Testament Literature*.]
- [205b. *The Ethics of Early Christianity*: Mr. Kee.]
- 207a. *Jesus and the Gospel Tradition*: Mr. Kee.
Historical sources for the life of Jesus; the varying interpretations of Jesus in the gospel tradition; the rise of critical method for evaluating the sources.
- 208b. *Paul and the Rise of Gentile Christianity*: Mr. Kee.
A study of the life and letters of Paul, of the cultural shift of Christianity into the Roman world, and of the impact of Paul on the early church.
- 209a. *Pharisaic Judaism*: Mr. Lachs.
& b. a. A study of the sects and major institutions to the end of the Tannaitic period. b. An analysis of Pharisaic concepts of God, man and society.
- 210b. *Medieval Philosophy*: Miss Potter. (See Philosophy 210b.)
- [300a. *Medieval Jewish Thought*.]
- 301a. *Gnosticism*: Mr. Kee.
The antecedents of Gnosticism in the Hellenistic world. A study of the primary documents of Gnosticism and of the influence of the movement on early Christianity.
- [302a. *Jewish Antecedents of Christianity*.]
- 302b. *Readings in the Greek New Testament*: Mr. Kee.
An analysis of the literary forms, religious vocabulary and cultural background of selected passages.
- [303a. *Religions in the Hellenistic World*.]
- [303b. *Myth and History*: Mr. Kee.]
- 304a. *Rabbinic Literature*: Mr. Lachs.
& b. Readings in Mishnah, Midrash, Aggadah, and in Rashi's Commentary to the Pentateuch. Prerequisite: History of Religion 101 or its equivalent.

- [306. *Studies in the Hebrew Bible.*]
[307b. *Rabbinic Ethics and Theology*: Mr. Lachs.]
[321b. *Revolution within the Church*: Mr. Tanis.]

Courses at Haverford

- Religion 201a. *History of Western Religious Thought and Institutions*:
Mr. Luman.
Religion 225. *Religious Traditions of India*: Members of the Department.
Religion 252a. *Religious Man in the Ancient World*: Mr. Larkin.

Courses at Swarthmore

- [Religion 24. *Mysticism East and West*: Mr. Swearer.]
399. *Senior Conference*: In the first semester students meet for weekly conferences to explore and discuss historical and literary aspects of early Judaism and Christian beginnings; during the second semester each student will carry on research in relation to her special interests, reporting periodically to the other members of the Senior Conference, and will present the results of her research in written form before the end of the term. The student's work will be evaluated on the basis of her oral contribution in the first semester and her written report in the second.

Honors Work: Qualified students are admitted to Honors work on the recommendation of the Department.

Italian

Lecturers: Nancy Dersofi, PH.D.

Nicholas Patruno, 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 102a, 201b, 301, 303a,b and at least one other advanced course. For students who enter the College with Italian, proper substitutions will be made. In all courses students are urged to use tapes available in the Language Laboratory.

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.

001. *Italian Language:* Mr. Patruno, Miss Dersofi.

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.

101. *Intermediate Course in the Italian Language:* Miss Dersofi, Mr. Patruno.

Readings from selected Italian authors and topics assigned for composition and discussion, conducted entirely in Italian.

102a. *Advanced Course in the Italian Language:* Mr. Patruno.

Advanced work in composition and critical examination of literary texts.

[201b. *Novel and Poetry of Modern Italy.*]

301. *Dante:* Mr. Patruno, Miss Dersofi.

Principal emphasis on the *Divina Commedia*. Some attention given to Dante's minor works and literary currents of the Middle Ages.

[303a. *Petrarch, Boccaccio and the Early Humanists:* Mr. Patruno.]

[303b. *Literature of the Italian Renaissance.*]

- 304a. *Foscolo, Leopardi and Manzoni*: Miss Dersofi.

A study of the Italian Romantic movement as reflected in these writers.

- 304b. *Literature of the Nineteenth Century*: Mr. Patruno.

A study of the literary currents following the Romantic movement. Special attention given to *Decadentismo* and *Verismo*.

- [305a. *History of the Italian Theatre*.]

399. *Senior Conference*: In the first semester weekly meetings devoted to the study of special topics in Italian literature chosen by the students, evaluated by a written examination in January. In the second semester each senior will prepare under the direction of the instructor a paper on an author or a theme which she has chosen. There will be a brief oral examination in Italian.

Honors Work: On the recommendation of the Department a student may undertake Honors work in Italian. The student works in a special field adapted to her own interest under the direction of the Department.

Latin

Professors: Agnes Kirsopp Michels, PH.D., *Chairman*

Myra L. Uhlfelder, PH.D.

Associate Professor: Russell T. Scott, PH.D.¹

Lecturer: Jon-Henri Damski, M.A.

The major in Latin is planned to acquaint the students with the world of the Romans, and their contribution to the modern world.

Requirements in the Major Subject: Latin 101, 201, 301 or 302 and the Senior Conference. 203b is a prerequisite for Honors work, and required for those who plan to teach.

Courses taken at the Intercollegiate Center for Classical Studies in Rome (see page 52) are accepted as part of the major. For non-majors, Latin 201a and b are prerequisites for 300 level courses.

1. On leave, 1972-1973.

Allied Subjects: Greek, Hebrew, History, Classical and Near Eastern Archaeology, History of Art, History of Religion, Linguistics, Philosophy, Anthropology, any modern language or literature.

001. *Elementary Latin:* Mr. Damski, Miss Uhlfelder.

Basic grammar and composition, reading from prose authors and Vergil's *Aeneid*.

002. *Intermediate Latin:* Mrs. Michels, Mr. Damski.

Review of grammar with reading in prose and poetry for students who have had two years of Latin in school, or do not feel adequately prepared to take Latin 101.

101a. *Latin Literature:* Mr. Damski.

Prerequisites: More than two years of Latin in school, Latin 001 or Latin 002. Selections from Catullus' poems, Cicero's *Pro Caelio*, and Vergil's *Eclogues*.

101b. *Latin Literature:* Mrs. Michels.

Selections from Livy, Book I, and from Horace's *Odes*.

201a. *Horace and Ovid:* Miss Uhlfelder.

Selections from Horace's *Satires* and *Epistles*, and from the works of Ovid.

201b. *Latin Literature of the Silver Age:* Mrs. Michels.

Readings from major authors of the 1st and 2nd centuries A.D.

[204a. *The Ancient City:* Mr. Scott.]

(INT.)

203b. *Latin Style:* Mrs. Michels.

A study of Latin prose style, based on reading of prose authors and exercises in composition, and of Latin metrics with practice in reading aloud.

[204b. *Words:* Mr. Damski. See Interdepartmental Course 204b, page 144.]

205a. *Medieval Latin Literature:* Miss Uhlfelder.

& b. Readings considered as literature, as parts of literary tradition, and a products of their historical context. a. The Carolingian Period. b. The High Middle Ages from the eleventh to the thirteenth centuries.

301a. *Vergil's Aeneid:* Mrs. Michels.

301b. *Livy and Tacitus:* Mr. Damski.

[302a. *Lucretius*: Mr. Damski.]

[302b. *Cicero and Caesar*: Mr. Scott.]

For Roman history see History 206 a & b.

399. *Senior Conference*: Regular meetings with members of the Department to discuss reading in Latin literature intended to supplement and synthesize work done in courses. The method of evaluating the work of the conference is determined each year. Majors must pass an examination in Latin sight translation which will be offered in September, February and May.

Honors Work: Honors work is offered to qualified students in classical or medieval Latin literature, or in Roman History. The results will be presented in a paper directed by a member of the Department.

Interdepartmental Work: The Department of Latin participates in the Interdepartmental majors: *Classical Languages* and *Classical Studies* and *Growth and Structure of Cities*. See pages 139 and 141.

Teaching Certification: A sequence of work offered by the Department of Latin and the Department of Education of the College leads to a certificate to teach in the secondary schools of Pennsylvania.

Mathematics

Professors: John C. Oxtoby, M.A., *Chairman*

Frederic Cunningham, Jr., PH.D.

Assistant Professor: Martin Avery Snyder, PH.D.

Lecturer: Kenneth Krigelman, M.A.

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.

Requirements in the Major Subject: at least 4½ units including Mathematics 101, 201, 301, 303a, or equivalent. The Senior Conference is also required.

Allied Subjects: Chemistry, Economics, Philosophy, Physics, Psychology.

100a. *Introduction to Automatic Computation:* Mr. Snyder.

An introduction to numerical calculations with, and methods of treatment of experimental data. A complete introduction to Fortran programming will be included. The applications and their order of treatment are chosen to illustrate the various major programming constructions as they arise. Two lectures and one recitation hour per week plus two hours of laboratory with the computer. No prerequisite.

101. *Calculus, with Analytic Geometry:* Mr. Krigelman, Mr. Oxtoby.

Differentiation and integration of algebraic and elementary transcendental functions, with the necessary elements of analytic geometry and trigonometry; the fundamental theorem, its role in theory and applications.

103b. *Methods and Models:* Mr. Krigelman.

Mathematical concepts, notations, and methods commonly used in the social, behavioral, and biological sciences, with emphasis on manipulative skill and real problem solving. Prerequisite: Mathematics 100a.

201. *Intermediate Calculus and Linear Algebra:* Mr. Cunningham, Mr. Snyder.

Vectors, linear transformations, functions of several variables, partial derivatives, multiple integrals, line integrals, infinite series, Taylor's formula, differential equations.

[210b. *Introduction to Numerical Analysis:* Mr. Snyder and Mr. Zimmerman.]

301. *Advanced Calculus:* Mr. Cunningham.

The classical theory of real functions, based on a construction of the real number system; elements of set theory and topology; analysis of Riemann integral, power series, Fourier series and other limit processes. Prerequisite: Mathematics 201.

303a. *Introduction to Abstract Algebra:* Mr. Krigelman.

Groups, rings and fields and their morphisms. Prerequisite: Mathematics 201.

303b. *Topics in Algebra:* Mr. Krigelman.

[304b. *Theory of Probability with Applications.*]

308. *Introduction to Applied Mathematics*: Mr. Snyder.
Interdependence of mathematics and scientific problems; vectors, tensors, matrices, ordinary and partial differential equations, eigenfunction expansions; complex variables and transform techniques. Prerequisite: Mathematics 201.
- [310. *Theory of Functions of a Complex Variable*: Mr. Snyder.]
- [311a. *Differential Equations*: Mr. Oxtoby.]
Prerequisite: Mathematics 201.
- [312b. *Topology*: Mr. Cunningham.]
Prerequisite: Mathematics 301 or 303a.
320. *Real Analysis*: Mr. Oxtoby.
399. *Senior Conference*: Selected topics from various branches of Mathematics are studied by means of oral presentations and the solution and discussion of problems.
Honors Work: Qualified students are admitted to Honors work on recommendation of the Department.
Teaching Certification: A sequence of work offered by the Department of Mathematics and the Department of Education of the College leads to a certificate to teach in the secondary schools of Pennsylvania.

Music

Professor and Director of Chorus:

Robert L. Goodale, A.B., B.MUS., A.A.G.O.,¹ Chairman

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

Associate Professor: Isabelle Cazeaux, PH.D., *Acting Chairman*, Semester II

Visiting Lecturers: John H. Davison, PH.D.

Edward A. Lippman, PH.D.

Instructor: Wilbert D. Jerome, M.MUS.

Assistant: Myrl Hermann, M.A.

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

1. On leave semester II, 1972-73.

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.

Students who are sufficiently advanced and who have completed at least one year of voice or music lessons while at the College may with the approval of the Department offer for one unit of academic credit a year of voice or instrument lessons. The unit of credit will include the lessons and also a recital or proficiency test arranged by the Department. The unit of credit will count as elective work and will not be counted toward the major.

A sequence of lessons (voice or instrument) approved by the Department, of a year or more, at the request of the student, will appear on her transcript.

Requirements in the Major Subject: Music 101, 102, and at least two and one-half units of additional work, at least one of which must be advanced, the selection of courses depending upon the student's desire to specialize in the history and literature of music or the technique of composition. The Senior Conference is also required. 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. Equivalent courses at Haverford will not be accepted for the major.

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:* The Department.

A comprehensive survey, with special emphasis on the technique of intelligent listening.

102. *Music Materials:* Mr. Goodale, Mr. Jerome.

A course in the elements of theory. The study of harmony and counterpoint, simple formal analysis and an introduction to orchestration.

201. *Romantic Music*: Miss Cazeaux.
A historical treatment of the music of the age with particular attention to certain representative composers.
202. *Advanced Theory and Analysis*: Mr. Goodale, Mr. Jerome.
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.
- 206a. *The Baroque Cantata*: Mr. Jerome.
Prerequisite: Music 101.
- [301. *Music of the Twentieth Century*: Mr. Goodale.]
- [302a. *Medieval and Early Renaissance Music*: Miss Cazeaux.]
- [302b. *Late Renaissance and Baroque Music*: Miss Cazeaux.]
- [303b. *Orchestration*: Mr. Goodale.]
- 304b. *Interpretation of Music*: Mme. Jambor.
Interpretation of instrumental music of various ages. Members of the class will be invited to participate by performing. Prerequisites: Music 101 and 102 or their equivalents.
- 305a. *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.
- 306b. *Opera and Music Drama*: Miss Cazeaux.
Sight-singing and Dictation: Mr. Jerome.
This course receives no academic credit. It meets twice a week and is required of music majors. It is open to other interested students.
399. *Senior Conference*: Three conferences dealing with some aspects of the

theory and history of music. Students may substitute for one of these a conference in an allied subject. Candidates' understanding of the material may be tested by written assignments, oral reports or other appropriate means.

Honors Work: Honors work is offered for students recommended by the Department.

The following organizations, carrying no academic credit, are sponsored by the Department:

The College Chorus, a group of about 90 members. The Bryn Mawr College Chorus combines with the Haverford College Glee Club both in rehearsals and in the presentation of programs. Several major choral works from different musical periods are offered in concerts during the course of the year.

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. Lessons in other instruments may be arranged. The Department will be glad to assist in these arrangements.

Interdepartmental Work: The Department of Music participates in the Interdepartmental concentration in *Hispanic and Hispanic-American studies*. See page 143.

Philosophy

Professors: José María Ferrater Mora, Lic. F.L., *Chairman*

George L. Kline, PH.D.

Jean A. Potter, PH.D.

Isabel Scribner Stearns, PH.D.¹

Associate Professor: Mary Patterson McPherson, PH.D., *Dean of the College*

Assistant Professors: Michael Krausz, PH.D.

George E. Weaver, Jr., PH.D.

Lecturers: John J. Mulhern, PH.D.

Thomas Song, M.A., M.A.L.S., *Associate Director of Libraries*

Assistants: Thomas P. Auxter, M.A.

George P. Cave, B.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 additional historical perspective, as well as insight into methodology and systematization. Training in the techniques of Logic is afforded, and such studies as Ethics, Aesthetics and Philosophy of Science show the relations of Philosophy to art, religion, science and mathematics. The advanced student brings the information and techniques that she has acquired to bear on new areas of Philosophy and on philosophical problems of current interest. Opportunity for independent work is provided within or in conjunction with several such advanced courses.

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 acquire the necessary historical background by taking the semester courses in Greek and Modern Philosophy and by electing one of the

1. On leave, 1972-73.

following: either study of two major thinkers in different historical periods (Plato or Aristotle and Kant or Hegel) or study of one major figure and either Medieval Philosophy or Nineteenth-Century German Philosophy. The systematic requirement is met by the semester course in Logic and by any two of the following semester courses: Ethics, Aesthetics, Philosophy of Religion, Philosophy of Science. One semester of advanced work is to be chosen from the 300 level courses. In addition to these eight semester courses the Senior Conference is required.

Allied Subjects: Biology, Chemistry, Economics, English, History, History of Art, Mathematics, Music, Physics, Political Science, Psychology, classical and modern literatures, and certain courses in Anthropology, History of Religion and Sociology.

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. The course will be repeated in the second semester as 101b.

201a. *Modern Philosophy:* Members of the Department.

A study of the development of modern philosophic thought from Descartes to Kant. Prerequisite: Philosophy 101a or b. The course will be repeated in the second semester as 201b.

202a. *Plato:* Mr. Mulhern.

A detailed study of some of Plato's dialogues.

203b. *Aristotle:* Mr. Mulhern.

A study of Aristotle's system, with emphasis on such fundamental problems as language, substance, change, being, and the Unmoved Mover.

210b. *Medieval Philosophy:* Miss Potter.

The history and development of Medieval Philosophy from its origins in classical and Patristic thought through the fourteenth century.

[212a. *Philosophy of Science:* Mr. Krausz.]

[215a. *Kant:* Mr. Ferrater Mora.]

- 216a. *Hegel*: Mr. Kline.
An intensive study of the *Phenomenology of Mind*.
- [217b. *Nineteenth Century German Philosophy*.]
- 250a. *Logic*: Mr. Weaver.
Introduction to the semantic and combinatorial aspects of deductive reasoning.
- 260b. *Ethics*: Mr. Kline.
A close study of classical and contemporary texts, with attention to such problems as the nature of moral obligation, decision, values, and principles.
- 262b. *Philosophy of Religion*: Miss Potter.
The existence and nature of God and the character of religious language. Prerequisite: Philosophy 201a or b or permission of the instructor.
- 263b. *History of Chinese Philosophy*. Mr. Song.
A survey of the origin and development of Chinese philosophical thought as represented by major philosophers. Emphasis is laid on the background, the basic issues and concerns of different schools of thought and their permanent relevance.
- 264a. *Introduction to the Problems of Philosophy*: Mr. Krausz.
A critical survey of major problems of philosophy, such as those of knowledge, being and values. The course is also an introduction to the principles of sound argumentation.
- 270a. *Metaphysics*: Miss Potter.
An examination of some critical problems of metaphysics, with reference to major classical and modern authors.
- [303b. *Philosophy of History*.]
- 304a. *Russian Philosophy*: Mr. Kline.
A critical study of major trends in Russian thought from the eighteenth century to the present, with special attention to ethics, social philosophy, and the philosophy of history.
- 304b. *Marx and Russian Marxism*: Mr. Kline.
An intensive study of selected works of Marx, Engels, Plekhanov, and Lenin and a critical survey of contemporary Soviet Marxism-Leninism.

[305b. *Contemporary Philosophy: Analytic.* Mr. Ferrater Mora.]

[306a. *Contemporary Philosophy: Existential.* Mr. Ferrater Mora.]

307b. *Aesthetics:* Mr. Krausz.

A systematic study of the nature of art objects, aesthetic experience, and aesthetic criticism.

[307a. *Texts in Medieval Philosophy:* Miss Potter.]

[309a. *The Concept of Time:* Mr. Kline.]

310a. *Philosophy of Language: Semantics:* Mr. Weaver.

Investigation of the goals of natural language semantics and the various attempts to articulate semantic theories in natural language.

[311b. *The Mind-Body Problem:* Mr. Krausz.]

312a. *Selected Problems in British Idealist Thought:* Miss McPherson.

Emphasis will be placed on the writings of F. H. Bradley.

312b. *History and Philosophy of Mathematics:* Mr. Weaver.

The examination of the various schools in the philosophy of mathematics in terms of their ability to account not only for the characteristic features of mathematics (e.g. abstractness, precision and logical rigor, indubitability, and applicability) but also for the fact that mathematical concepts have histories. Special emphasis will be placed on the role of number words and number symbols in the history of arithmetic.

Students should also refer to Political Science 209b, 231a, and 311b.

399. *Senior Conference:* The Senior Conference is in two parts. Part I is a seminar combined with tutorial sessions which runs throughout the year. The seminar emphasizes critical thinking on a central philosophic issue. For Part II each senior selects from an approved list one major philosophic work on which she wishes to be examined at the end of the first semester. The examination may be either written or oral at her option.

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: Rosalie C. Hoyt, PH.D., *Chairman*

John R. Pruett, PH.D.¹

Assistant Professors: Alfonso M. Albano, PH.D.

Stephen R. Smith, PH.D.

Lecturer: Walter C. Michels, PH.D., *Professor Emeritus*

Assistants: Neal Broadus Abraham, B.S.

Ronald Jones, 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.

Requirements in the Major Subject: Physics 101, and at least 2½ units to be chosen from Physics 201a, 202b, 207 or 305c, 301a, 303b, 304. At least one unit must consist of 300 level courses. A Senior Conference in Unified Classical Physics and in Atomic and Nuclear Physics; 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. Albano, Miss Hoyt.

A study of the principal phenomena of classical and modern physics in the light of the developments of the past seventy years. Any mathematical methods needed beyond those of high school mathematics will be developed in the course. Three lectures and three hours laboratory a week.

201a. *Electricity and Magnetism:* Mr. Michels.

1. On leave, semester II, 1972-73.

Elementary direct and alternating current circuit theory, magnetic effects of currents, electrostatics, Maxwell's equations, applications to atomic phenomena. Three lectures and four hours laboratory a week. Prerequisites: Physics 101, Mathematics 201 (may be taken concurrently).

202b. *Optics*: Mr. Smith.

Geometrical optics, interference and diffraction, polarization, dispersion, and scattering of electromagnetic radiation; spectra and the Bohr atom. Three lectures and four hours laboratory a week. Prerequisites: Physics 201a, Mathematics 201 (may be taken concurrently).

207. *Physical Basis of Computer Science*: Mr. Pruett.

Linear circuit theory, digital electronics, and systems design. Introduction to algorithms, programming methods with applications to physical problems. Three lectures and four hours laboratory a week. Prerequisites: Physics 101 and Mathematics 101.

301a. *Classical Mechanics*: Mr. Smith.

Newtonian mechanics of particles and of rigid bodies, special relativity theory, generalized mechanics, applications to atomic and nuclear phenomena. Three lectures and four hours laboratory a week. Prerequisites: Physics 201a or 207, Mathematics 201.

303b. *Thermal Properties of Matter*: Mr. Albano.

The application of mechanics and probability concepts to systems of particles; classical thermodynamics and its connection with statistical models; equilibrium and transport problems; classical and quantum statistics. Three lectures and four hours laboratory a week. Prerequisites: Physics 301a, Mathematics 201.

304. *Introduction to Theoretical Physics*: Mr. Albano, Mr. Michels.

Coupled systems and continuous media; electromagnetic fields; radiation. Boundary value problems. Mathematical methods are developed as needed. Four hours a week. Prerequisites: Physics 201a, 202b and 301a (may be taken concurrently), Mathematics 201. Mathematics 301 or Chemistry 203 may be substituted for Physics 301a.

305c. *Electronics*: Mr. Pruett.

Principles of solid state electronic devices and their applications to digital and analog computers and to other instruments. Four hours laboratory a week. Prerequisite: Physics 201a (may be taken concurrently).

399. *Senior Conference*

a. *Unified Classical Physics*: Miss Hoyt.

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. Two hours of discussion a week.

b. *Atomic and Nuclear Structure*: Miss Hoyt.

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.

Work in these conferences will be tested in part by examinations to be given during the academic year.

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.

Teaching Certification: A sequence of work offered by the Department of Physics and the Department of Education of the College leads to a certificate to teach in the secondary schools of Pennsylvania.

Political Science

The Caroline McCormick Slade Department of Political Science

President of the College: Harris L. Wofford, Jr., A.B., LL.B.

Professors: Melville T. Kennedy, Jr., PH.D., *Chairman*

Gertrude C.K. Leighton, A.B., J.D.¹

Associate Professor: Charles E. Frye, PH.D.

Assistant Professors: Marc H. Ross, PH.D.

Stephen Salkever, PH.D.

Visiting Lecturer: Paul Sigmund, PH.D.

1. On partial leave, semester I, 1972-73.

The major in Political Science is concerned with study of normative and empirical 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 of course work and the Senior Conference in the major and two units 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: 200a (INT.), 201a, 203a, 204b, 205a, 206b, 207b, 208b, 209b.* 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.

The fields of the major, from which two must be selected for special concentration, are: Political Philosophy and Theory; Politics and Law in American Society; Comparative Politics; International Politics and Law. At least three courses (one and one-half units of work), including a minimum of one advanced course, must be taken in each of the fields selected. For courses arranged according to fields, see page 126. With the permission of the Department one of the fields may be taken in an allied subject.

Non-majors wishing to take a special field in Political Science must consult the chairman for approval of course plans in order to qualify for the required senior conference program. See page 125.

With the permission of the Department, courses at Haverford, 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.

200a. *Urban Society:* Mrs. Lane, Mr. Ross.
(INT.) See Interdepartmental Course 200a., page 141.

201a. *American National Politics:* Mr. Ross.

An examination of the forces shaping political behavior and values in the United States, paying particular attention to the processes of

political socialization, public opinion formation, agenda building, decision making, and policy implementation.

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. *Twentieth Century China and India*: Mr. Kennedy.

A comparative examination of the political systems of China and India in the twentieth century, with special attention to the roles of nationalism and Communism.

205a. *Government and Politics in Western Europe*: 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*.]

207b. *Government and Politics in Western Europe*: Mr. Frye.

A comparative analysis of the contemporary political systems of Germany, Italy, and the Soviet Union.

209b. *Western Political Philosophy*: Mr. Salkever.

A study of the fundamental problems of Western political thought. The writings of selected ancient and modern philosophers will be examined.

210a. *The Soviet System*: Mr. Hunter (Haverford).

(INT.) See Interdepartmental Course 210a, page 144.

[212a. *Western Political Thought: Ancient and Medieval*.]

[218a. *Community Politics*: Mr. Ross.]

(INT.)

219a. *American Constitutional Law*: Mr. Salkever.

An analysis of some of the basic principles and processes of American public law. Attention will be centered on decisions and opinions of the Supreme Court as they relate to the formation of public policy and to the value patterns of American liberal democracy.

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.

230b. *Political Behavior*: Mr. Ross.

This course considers various social-psychological approaches to the study of political behavior considering such concepts as political socialization, role theory, perception, belief dynamics, personality, and non-conformity and change.

231a. *Recent Political Philosophy: Sources and Varieties*: Mr. Salkever.

An examination of the similarities and differences found in the political writings of Locke, Mill, Marx and Nietzsche with respect to the question, what is the best life for man. Selected contemporary authors will also be considered.

[232b.* *Law and Education*: Mr. Wofford.]

[301a. *Law and Society*: Miss Leighton.]

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: Political Science 219b, 301a, or 313b, or with the 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, nuclear weapons strategies and the relevance of balance concepts.

[304b. *West European Integration*: Mr. Frye]

[307b. *Modern Germany*: Mr. Frye.]

[308a. *American Political Theory*.]

309b. *Selected Topics in Modern Political Thought*: Mr. Frye.

Study of several political concepts including liberty, equality,

democracy, and justice. Selected readings from liberal, Marxist, and existentialist authors.

310a. *Comparative Political Culture: Political Socialization*: Mr. Frye.

Comparative examination of the political socialization processes in Western Europe and the United States, of the political cultures of these areas, and of the significance of these cultures for their respective political systems.

311b. *Theory and Practice in Political Philosophy*: Mr. Salkever.

A consideration of one of the central processes of political philosophy—the transition from Fact to Value. Typical alternative modes of linking theoretical and practical assertions will be studied through the works of ancient and modern philosophers. Open to students who have taken: Political Science 209b, or either Philosophy 101 or 201.

312b. *China, Japan, India: Problems in Modernization*: 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 three countries.

[313b. *Problems in Constitutional Law*.]

[315b. *American Bureaucracy*.]

316b. *Ethnic Group Politics*: Mr. Ross.

(INT.) An analysis of the factors influencing ethnic group conflict and cooperation in a variety of cultural contexts, with particular emphasis on urban settings. Each student will engage in a field project in the Philadelphia area.

321a. *Latin American Affairs*: Mr. Sigmund.

Advanced instruction on political topics pertaining to individual Latin American countries. Independent research will be emphasized.

Courses at Haverford

216a. *African Civilization: Traditions and Transformations*: Mr. Mortimer.

220a. *International Relations*: Mr. Hansen.

225a. *Comparative Politics: Political Development*: Mr. Glickman.

226b. *International Organization*: Mr. Hansen.

- [227a. *American Political Theory*: Miss Shumer.]
- [228b. *Public Opinion, Private Interests and the Political System*: Mr. Waldman.]
- [229b. *Problems in Contemporary American Political Theory*: Miss Shumer.]
- [230a. *Racial, Ethnic and Class Politics*: Mr. Glickman.]
- 258b. *The Presidency*: Mr. Waldman.
- 263b. *Imperialism, Nationalism and Decolonization*: Mr. Mortimer.
- 266b. *Politics and International Relations in the Middle East and North Africa*: Mr. Mortimer.
- [323a. *American Political Process: Parties and the Congress*: Mr. Waldman]
- 351b. *Comparative Political Sociology*: Mr. Glickman.
- [352b. *International Politics of Communism*: Mr. Hansen.]

399. *Senior Conference*: The required senior conference program, for which one unit of credit is given, is designed to synthesize and deepen understanding of the work in the major and in allied subjects. It consists of (1) two colloquia, one offered in each semester, or (2) one colloquium and a senior paper. The colloquia for 1972-73 are:

Senior Colloquium: Miss Leighton, Mr. Ross.

Senior Colloquium: Mr. Kennedy, Mr. Frye.

A senior who elects the second alternative will normally write the senior paper in the semester other than that in which the colloquium she selects is given. The topic of the paper must be in one of the two fields of concentration (see below) and is supervised by a member of the Department whose specialty is in the same or related fields.

The topics of the colloquia change from year to year. Each colloquium is concluded by a general examination in political science. This examination, though general in nature, is designed to draw on the work of the particular colloquium.

Seniors who have taken a field in an allied subject may offer work in the senior conference of that subject as a part of the political science senior conference. If this alternative is chosen, *one* colloquium in politi-

cal science is required. Each program must be individually planned and approved by the chairman and by the allied department.

Fields of Concentration

1. *Political Philosophy and Theory*

Political Analysis; Western Political Philosophy; Recent Political Philosophy: Sources and Varieties; Western Political Thought: Ancient and Medieval; Political Behavior; Theory and Practice in Political Philosophy; Selected Topics in Modern Political Thought; American Political Theory (Haverford); Problems in Contemporary American Political Theory (Haverford).

2. *Politics and Law in American Society*

American National Politics; Community Politics; Ethnic Group Politics; Political Behavior; Constitutional Law; Law and Education; Law and Society; Law, Policy and Personality; Law and Poverty; The American Political Process: Parties and the Congress (Haverford); Problems in Contemporary Political Theory (Haverford); Public Opinion, Private Interests and the Political System (Haverford).

3. *Comparative Politics*

Government and Politics in East Asia; Communism and Nationalism in Asia; Government and Politics in Western Europe; Introduction to Latin America; Latin American Affairs; Twentieth Century China and India; Western European Integration; Problems in Comparative Politics; China, Japan, and India: Problems in Modernization; The Soviet System (Haverford); African Civilization: Tradition and Transformations (Haverford); Comparative Politics: Political Development (Haverford); Comparative Political Sociology (Haverford); Racial, Ethnic and Class Politics (Haverford).

4. *International Politics and Law*

International Law; Problems in International Politics; East Asian Foreign Policies; International Relations (Haverford); International Organization (Haverford); Politics and International Relations in the Middle East and North Africa (Haverford); International Politics of Communism (Haverford). With the consent of the Department, certain comparative courses may be counted in this field.

Honors Work: Seniors admitted to Honors work prepare an independent research paper (one unit of credit) under the supervision of a member of the Department. Field work is encouraged.

Interdepartmental Work: The Department of Political Science participates in the Interdepartmental concentration in *Hispanic and Hispanic-American Studies* and in the Interdepartmental major in the *Growth and Structure of Cities*. See pages 143 and 141.

Teaching Certification: A sequence of work offered by the Department of Political Science and the Department of Education of the College leads to a certificate to teach in the secondary schools of Pennsylvania.

Psychology

Professors: Richard C. Gonzalez, PH.D., *Chairman*
Howard S. Hoffman, PH.D.

Adjunct Professor: Larry Stein, PH.D.

Associate Professor: Matthew Yarczower, PH.D.

Assistant Professors: Clark McCauley, PH.D.
Earl Thomas, PH.D.

Lecturers: Erika R. Behrend, M.A.
Alice S. Powers, PH.D.

Assistants: A. Thomas McLellan, B.A.
Walter Paynter, B.A.
Kathryn Woods, B.A.

The Department offers to the major student a representative account of methods, theory and findings in Comparative, Experimental, Physiological and Social Psychology. The program of work is planned to encourage the student, in the first two years of study, to sample widely from among the course offerings in these areas, and to permit her, in the final two years, to focus attention (by course work and research) on the one or two areas of her principal interest.

Requirements in the Major Subject: Psychology 101; two courses from each of the following groupings of courses: (a) Psychology 201a,

201b, 202a, 202b; (b) Psychology 205a, 205b, 206b, 207a; (c) Psychology 301a, 305a, 306b, 307a, 308b, 309; one unit of allied work in either Biology, Chemistry, Physics, or Mathematics. The Senior Conference is also required. Psychology 207a is strongly recommended to students preparing for graduate work. Psychology 101 is prerequisite to all other courses offered by the Department with the exception of Psychology 207a and any second semester course at the 200 level, either or both of which may, *with departmental permission*, be taken concurrently with Psychology 101.

Allied Subjects: Anthropology, Biology, Chemistry, Education, History of Science, Linguistics, Mathematics, Philosophy, Physics, Sociology. At least one unit must be taken from among Biology, Chemistry, Physics and Mathematics.

101. *Experimental Psychology:* Mr. Gonzalez, Mr. McCauley, Mr. Thomas, Mr. Yarczower.

The experimental study of behavior and its physiological basis. A survey of methods, facts, and principles: sensation, perception, motivation, emotion, learning, and thinking. Three hours lecture and four hours laboratory each week.

The following courses include individual laboratory research projects.

- 200b. *Comparative Psychology:* Mr. Yarczower.

The evolution of behavior. Language, aggression, learning and social behavior are studied in evolutionary perspective after brief introductions to the history of comparative psychology and to some principles of evolutionary study.

- 201b. *Animal Learning:* Mr. Gonzalez.

Comparative studies of conditioning and selective learning; theories of learning; the evolution of intelligence.

- 202a. *Language and Cognition:* Mr. Yarczower.

Cognitive development and its relation to the development of language.

- [202b. *Motivation:* Mr. Gonzalez.]

- 205a. *Social Psychology:* Mr. McCauley.

The psychological study of man in society.

- 205b. *Psychology of the Normal Personality*.
Survey of the major theories. Developmental, clinical and experimental evidence relating to the "normal" personality.
- [206b. *Development Psychology*.]
- 207a. *Experimental Methods and Statistics*: Mr. Hoffman.
Measurement, descriptive statistics, probability, association, testing of hypotheses, the design of experiments and associated problem exercises.
- 223a. *Theories of Personality*: Mr. Heath (Haverford).
- 301a. *Physiological Psychology*: Mr. Thomas.
The physiological and anatomical bases of experience and behavior: sensory processes and perception, emotion, motivation, learning and cognition. Prerequisite: Psychology 201b or 202a.
- 305a. *Sensation and Perception*: Mr. Hoffman.
Peripheral and central mechanisms for the reception and analysis of stimuli.
- 306a. *Psychological Measurement*: Mr. McCauley.
Scale and test construction; evaluation of standardized tests; intelligence and the structure of abilities; personality assessment, educational, vocational and clinical application of tests.
- 307a. *Social Psychology of Attitudes*: Mr. Perloe (Haverford).
- 308b. *Psychology of the Abnormal Personality*.
- [309. *History and Systems of Psychology*.]
- 311a. *Selected Problems in Comparative Psychology*: Members of the Department.
& b. ment.
- 312a. *Selected Problems in Physiological Psychology*: Members of the Department.
& b. ment.
- 313a. *Selected Problems in Experimental Psychology*: Members of the Department.
& b. ment.
- 314a. *Selected Problems in Social Psychology*: Members of the Department.
& b.

- 315a. *Selected Problems in Child and Developmental Psychology*: Members & b. of the Department.
- 346a. *Abnormal Psychology*: Mr. Davis (Haverford).
- 357b. *Computer Usage in the Life Sciences*: Mrs. Pruett.
(INT.) Experiments in the Life Sciences will be analysed using computer techniques. The Fortran IV Language will be developed and used throughout the course. Limited to advanced students with research experience; no previous training in the use of the computer required. Lecture two hours, laboratory two hours.
399. *Senior Conference*: Seniors meet throughout the year as a group with individual members of the Department to discuss brief papers on topics assigned at the beginning of the year.
403. *Supervised Research in Psychology*: Members of the Department.
Laboratory or field research under the supervision of a member of the Department.
Honors Work: One unit of Honors work may be taken by students nominated by the Department.

Russian

Professor: Frances de Graaff, PH.D.

Associate Professor: Ruth L. Pearce, PH.D., *Chairman*

Instructor: Helen Segall, B.S.

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.

Requirements in the Major Subjects: Literature: Russian 001 and 101 (or 100) and 200 or 201, one advanced literature course and a Senior Conference. Also Russian 203 or History 244 (History of Russia) or Economics 210a. If a student offers Russian for entrance,

Russian 203 or History 244 may be substituted for one of the language courses.

Russian Studies: Three years of language work or its equivalent, one course in the field of specialization (Philosophy 304, History 244 or Economics 210a) and a Senior Conference. A student specializing in Russian Studies will take in addition one unit of advanced independent study in his special field.

Allied Subjects: Economics 210a, History 244 (strongly recommended), 301; any language or literature, History of Art, Music, Philosophy.

001. *Elementary Russian:* Mrs. Segall.

The basic grammar is learned with enough vocabulary to enable the student to speak and understand simple Russian and to read simple texts.

100. *Intensive Russian:* Miss de Graaff, Mrs. Pearce.

A double course covering the work of Russian 001 and 101. It will meet ten hours a week and give two units of credit.

101. *Intermediate Russian:* Mrs. Pearce, Mrs. Segall.

Grammar review and composition. Introduction to the Russian literary language. Readings in Russian classics and contemporary materials.

200. *Advanced Training in the Russian Language:* Mrs. Segall.

Oral use and composition are stressed. Conducted entirely in Russian.

201. *Readings in Russian Literature:* Mrs. Pearce.

Representative writers of the nineteenth and twentieth centuries. Conducted mostly in Russian.

[202.* *General Readings in Russian.*]

[203. *Russian Literature in Translation.*]

[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.]

305. *Advanced Grammar:* Mrs. Pearce.

399. *Senior Conference*: One semester on the Russian language and one semester in the field of specialization. The work of the conferences will be evaluated by one examination in the Russian language (to be given at the beginning of the second semester) and one in the field of specialization.

Honors Work: Honors work is offered to students recommended by the Department.

Sociology

Professor: Eugene V. Schneider, PH.D.¹, *Chairman*

Assistant Professors: William R. F. Phillips, PH.D.

Judith R. Porter, PH.D., *Acting Chairman*, Semester II

Lecturer: Robert E. Washington, M.A.

Visiting Lecturers: Ann Beuf, PH.D.

Stanley S. Clawar, M.A.

Assistants: Alexa Albert, M.A.

Susan D. Gotsch, M.A.

Associate Professor of Social Work and Social Research:

Dolores Norton, PH.D.

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. Stress is also placed on the major strains and problems of modern society. 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.

Requirements for the Major Subject: 102a & b, 302a and 305b and additional work to be chosen from courses offered at Bryn Mawr or courses above the introductory level at Haverford. A total of three

1. On leave, semester II, 1972-73.

and one-half units of course work is required in addition to the Senior Conference.

Allied Subjects: Anthropology, Economics, Social Psychology, Political Science, American History, American Literature, Mathematics.

102a. *Introduction to Sociology:* Mrs. Porter.

Analysis of the basic sociological perspectives, methods and concepts used in studying society. Emphasis is placed on culture, social system, personality, and their interrelationships. Concrete applications of sociological analysis are examined.

102b. *American Social Structure:* Instructor to be appointed.

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. *Social Welfare and the Individual and His Environment:* Mrs. Norton.

The effect of various physical, economic, cultural and racial environments on the development of the individual, and social work and social welfare approaches designed to meet these varieties of human behavior.

[202b. *Social Problems and Social Work Practice.*]

205b. *Social Stratification.*

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.

207a. *Race Relations:* Mrs. Porter.

Examination of theories of prejudice and attitude change, the structure of the minority community and its relationship to the majority, with major emphasis placed on Black-white relations in the United States. Prerequisite: Sociology 102a or consent of instructor.

209b. *Sociology of Religion:* Mrs. Porter.

Analysis of the interrelationship between religion and society, drawing upon the works of major social theorists. Emphasis is placed on the connection between religious systems and secular culture, social structure, social change, secular values and personality systems. Prerequisite: Sociology 102a.

- 215a.* *Field Work in Urban Studies*: Mr. Clawar.
& b. A multi-disciplinary approach to the urban situation as it is manifested through the public school system. Approximately three hours per week are dedicated to individual in-school instruction with Junior High School students. A weekly seminar includes several outside discussions and offers varying perspectives on the problems involved.
- 218a. *Sociology of Developing Countries*: Mr. Washington.
A comparative study of the social conditions and consequences of industrialization among the countries of the Third World. Attention will be paid to emergent social strains, ideologies, social movements and political organizations.
- 220a. *Political Sociology*: Mr. Phillips.
An analysis of historic and contemporary power structures, the role of elites and masses in political systems, and the relationship between the polity and other institutions.
- 237a. *Women in American Society*: Mrs. Beuf.
An historical and social analysis of the interaction between women and society; contemporary protest movements and their prospects.
- 240a. *Urban Sociology*: Mr. Phillips.
(INT.) An analysis of urban social structures. Topics considered are: the urban polity, the psychology of urban life, the economic function of cities, and contemporary urban problems.
- 245b. *Social Problems*: Mr. Washington.
A survey of major problems in American society as seen by sociologists and social critics. Topics considered are: crime, education, drug addiction, the police, divorce, racial ghettos and violence.
- 255b. *The Sociology of Alienation*: Mr. Washington.
An examination of a variety of theoretical approaches to the phenomena of powerlessness, loss of meaning, estrangement, inauthenticity, etc., and an analysis of the social conditions giving rise to and resulting from alienation.
- 302a. *Social Theory*: Mr. Schneider.
An examination of the extent to which the writings of classical and

modern theorists can throw light on wide-ranging social, cultural, and historical processes.

305b. *Sociological Methods*: Mr. Phillips.

An examination of various techniques for conducting empirical enquiry in Sociology; research design, collection of data, methods of interviewing, analysis, etc.

399. *Senior Conference*: The form and evaluation of the conference will be determined in consultation with the senior majors.

Honors Work: Honors work is offered to students who have demonstrated proficiency in their studies in the Department of Sociology, and will consist of independent reading and research, conferences and the preparation of a written report.

Interdepartmental Work: The Department of Sociology participates in the Interdepartmental concentration in *Hispanic and Hispanic American Studies* and in the interdepartmental major, *The Growth and Structure of Cities*. See pages 143, 141.

Courses at Haverford

In general students may enroll for major credit in any course above the Introductory level in the Department of Sociology at Haverford. However, the student should first consult the Department of Sociology at Bryn Mawr.

Spanish

Professors: Willard Fahrenkamp King, PH.D.,¹ *Chairman*
Joaquín González Muela, D. en F.L.

Assistant Professor: Eleanor Krane Paucker, PH.D.

Lecturer: John F. Deredita, M.PHIL.

Professor of Philosophy: José María Ferrater Mora, Lic. F.L.

The major in Spanish offers work in both language and the literature of all centuries, with emphasis on those periods when Spain and Spanish America have made their maximum contributions to Western culture.

The introductory course treats a selection of the outstanding works of Spanish and Spanish American literature in various periods and genres. Advanced courses deal more intensively with individual authors or periods of special interest. Students may take an advanced course at Haverford if it contributes significantly to their special program. In certain cases, with the approval of the Department and the Dean of the Graduate School of Arts and Sciences, advanced students may also take one graduate course.

One course is devoted to training in written and spoken Spanish. It is recommended that students supplement their course work by spending the junior year in Spain or Spanish America, studying in the summer at the *Centro* in Madrid, or living in the Spanish House. It is strongly advised that all students make use of the tapes available in the Language Laboratory. In Spanish 001 the use of the Laboratory forms an integral part of the course.

Requirements in the Major Subject: The normal course sequence in the major is 101a, 101b, 201a or b, 202a or b, at least four semesters of advanced work and the Senior Conference. Students who spend the Junior year in Spain may substitute an advanced literature course for Spanish 202a or 202b, and students whose precollege training includes advanced work in literature may, with permission of the Department, substitute a unit of more advanced work for 101a and 101b.

Allied Subjects: Any other language or literature, Anthropology, Economics, History, History of Art, History of Religion, Linguistics, Music, Philosophy, Political Science, and Sociology.

1. On leave, semester II, 1972-73.

001. *Elementary Spanish*: Mr. Deredita, Mrs. Paucker.
Grammar, composition, oral and aural training, readings on the Spanish and Spanish American background.
003. *Intermediate Spanish*: Mr. Deredita, Mr. González-Muela.
Intensive grammar reviews, exercises in composition and conversation, selected readings from modern Spanish texts.
- 101a. *Hispanic Culture and Civilization*: Mr. Deredita.
& b. The culture and civilization of Spain and Spanish America as revealed in art, literary texts, and historical, political and sociological readings. Oral expression and practice in writing emphasized.
- 201a. *Hispanic Literature of the Nineteenth Century*: Mrs. Paucker.
Major novelists and essayists of social conflict and change in Spain (Larra, Galdós, etc.); social and national consciousness after Independence in Spanish America (Martín Fierro, Sarmiento, etc.).
- 201b. *The Generation of 1898 and Modernismo*: Mrs. Paucker.
The creation of new styles and new values as seen in the work of Rubén Darío, Unamuno, Antonio Machado, Valle-Inclán, etc.
- 202a. *Advanced Language Training and Composition*: Mr. Deredita, Mr. & b. González Muela.
Training in phonetics, practice in conversation. Interpretation of texts, translation, and original composition in Spanish. Assignments adapted to needs and level of achievement of the individual student.
- [203a. *Spanish American Literature.*]
& b.
- [302a. *Medieval Spanish Literature.*]
- [303a. *The Modern Novel in Spain and Spanish America.*]
- [303b. *Modern Poetry in Spain and Spanish America.*]
- 304a. *Cervantes*: Mrs. King.
The development of Cervantes' themes and narrative technique; the reflection of Spanish culture and values within his work. Special attention given to *Don Quijote*.
- [304b. *Spanish Poetry and Drama of the Golden Age.*]

Courses at Haverford

201. *Introduction to Spanish American Literature*: Mr. García-Castro.
- 305a. *Contemporary Spanish Theater*: Mr. García-Barrio.
399. *Senior Conference*:
- a. In the first semester a senior seminar devoted to study of a special topic in Spanish literature chosen by the students, to be evaluated by a written examination in January.
 - b. In the second semester individual conferences between each student and her instructor designed to aid the student in the preparation of a paper on an author or theme, chosen by the student, as seen in the context of a whole period in Spanish literature and history. At the end of the semester each student has a brief oral examination in Spanish consisting of the explanation and interpretation of a Spanish text and serving, along with the papers, as the method of evaluation of this conference. (With the approval of the Department, the student may substitute the Hispanic Studies seminar for the second-semester Senior Conference, see page 143.)

Honors Work: Honors work is offered to students recommended by the Department. This work consists of independent reading, conferences and a long paper.

Interdepartmental Work: The Spanish Department participates in the Interdepartmental concentration in *Hispanic and Hispanic-American Studies*. See page 143.

Interdepartmental Work

As new fields of study open up and as old fields change, it becomes necessary for those interested in them to acquire the information and to learn the methods needed to understand them and to work in them, and these may sometimes be quite diverse. In order to provide opportunity for students to work in these new areas, the Faculty has approved the establishment of the following Interdepartmental Majors and Interdepartmental Area of Concentration.

I Interdepartmental Majors

Classical Languages

Major Advisors: Professor Lang (Greek)
Professor Michels (Latin)

This major is designed for the student who wishes to divide her time equally between the two languages and literatures.

Requirements: six units of course work in Greek and Latin, normally three of each. At least one unit of advanced course work, but no allied units. A special Senior Conference will be made up from the offerings of the two departments. See pages 90 and 106 for descriptions of courses and conferences.

Classical Studies

Major Advisors: Professor Lang (Greek)
Professor Michels (Latin)
Professor Ridgway (Classical and Near Eastern Archaeology)

This major will provide a broad yet individually structured background for students whose interest in the ancient classical world is general and who wish to lay the foundation for more specialized work in one particular area.

Requirements: eight units of course work, at least one in each of the following: Ancient History (History 205a & b, 206a & b, 313a), Ancient Philosophy (Philosophy 101a or b, 202a, 203b, 350d), Classical Archaeology (Classical and Near Eastern Archaeology 101, 202b, 203a,

203b, 205b, 301a, 301b, 302b, 304a), Greek (all courses except 203, 213a, 214b), Latin (all courses except 204b, 205a & b). At least one unit of advanced work is required, but no allied work. The Senior Conference will be in two parts: one in the field of the advanced unit and a special Classical Studies Conference on some topic to which all fields may contribute. (Two of the required eight units may be taken at Haverford College with the approval of the major advisors.)

French Studies

Major Advisors: Professor Guggenheim (French)
Professor Silvera (History)

The major in French studies, offered jointly by the French and History Departments, is designed to acquaint students with French life and culture in the broadest sense. The major concentrates on a sequence of French and history courses planned according to literary themes, genres, and topics studied in their historical setting, with the possibility of modifying the pattern of concentration to include courses in such allied fields as political science or sociology, philosophy, history of art, or music, to be taken either at Bryn Mawr or at Haverford. A junior year in France under one of the plans recommended by the French Department or summer study at the *Institut d'Etudes françaises d'Avignon*, held under the auspices of Bryn Mawr, forms an integral part of the program. A good command of French, both written and spoken, is required and residence in the French House in Haffner is strongly recommended for all those who need to improve their fluency in French. On the recommendation of the major advisors and with the special approval of the Dean of the Graduate School of Arts and Sciences, students may in certain cases be admitted to some seminars in the Graduate School.

Requirements: Students whose interests are literary will normally elect three units of French and two units of history, while students whose bent is historical will elect three units of history and two of French. (See course descriptions in the Departments of French and History, pages 81 and 92). At least one of these units from either department will be at the advanced level. History/French 290 serves as the introductory

course. The Senior Conference covers selected aspects of the historical, humanistic and institutional features of French civilization.

Allied Subjects: Political Science, Sociology, Economics, History of Art, Philosophy, Music.

The Growth and Structure of Cities

Major Advisor: Professor Lane (History)

In this interdisciplinary major, the student will study the city from more than one point of view. City planning, art and architecture, history, political science, anthropology, archaeology, economics and sociology will contribute toward her understanding of the growth and structure of cities.

Requirements: All students must take Interdepartmental 190 and Interdepartmental 200a (one and one-half units). Each student should select, *in addition* to these courses, three units from among the other major courses listed below. Two additional units, above the introductory level, must be chosen from *one* of the departments listed under Allied Subjects. Each senior will prepare a paper or project embodying substantial research. The paper or project will be presented in written form to the Committee on the Growth and Structure of Cities, and in oral or visual form to all seniors in the major meeting as a group. These oral presentations and the resulting discussions will serve as the Senior Conference.

Allied Subjects: Political Science, History, History of Art, Sociology, Economics, Fine Arts, Greek, Latin, Classical and Near Eastern Archaeology, Anthropology. Occasionally, with permission of the Graduate Dean of the School, Courses in Social Work and Social Research.

[190. *History: The Form of the City:* Mrs. Lane.]
(INT.)

200a. *Urban Society:* Mrs. Lane, Mr. Marc Ross.

(INT.) The techniques of the social sciences as tools for studying historic and contemporary cities.

202b. *Ancient Cities of the Near East and Greece:* Mrs. Ridgway. See Archaeology 202b.

- [204a. *The Ancient City*: Mr. Scott.]
- [218a. *Community Politics*: Mr. Ross.]
- 240a. *Urban Sociology*: Mr. William Phillips.
See Sociology 240a.
- [270b. *Medieval Cities: Islamic, Byzantine, Western*: Mr. Brand.]
- 301b. *Greek Architecture*: Mr. Nylander.
See Archaeology 301b.
- 304b. *Dynamics of Environmental Systems*: Mr. Anderson.
(INT.) See Chemistry 304b.
- 305a. *History: The Italian City State in the Renaissance*: Mrs. Lane.
See History 305a.
- 306a. *Le thème de Paris dans la littérature française*: Miss Lafarge.
See French 306a.
- 311b. *Colonial Towns in North and South America*: Mrs. Dunn.
See History 311b.
- 316b. *Ethnic Group Politics*: Mr. Marc Ross.
See Political Science 316b.
- Art 56 (Swarthmore) *The City*: Mr. Kitao.

The course is a study of visual and physical aspects of our manmade environment—our experience and use of it; its effect on us and the nature of its growth and design. The course involves perception, analysis, and interpretation of the form, structure, imagery, and dynamism of selected historical and contemporary urban spaces.

II. Interdepartmental Area of Concentration

Hispanic and Hispanic-American Studies

Major Advisors: Professor Dunn (History)

Professor King (Spanish)

The program is designed for students interested in a comprehensive study of the society and culture of Spanish-America and/or Spain. Its aims are (1) to provide the student, through a formal major in Anthropology, History, History of Art, History of Religion, Economics, Music, Political Science, Sociology, or Spanish, with a valid means for thorough study of one aspect of Hispanic or Hispanic-American culture, (2) to afford an introduction, through the study of allied courses dealing with Spain or Spanish-America, to other aspects of the cultural complex, (3) to effect a synthesis of the student's studies through a Senior Conference, in which all students in the program participate, on a broad topic that cuts across all the major areas involved.

Requirements: Competence in Spanish; in addition to the courses in the major department, at least 2½ units of work from courses listed below and from selected courses at Bryn Mawr's *Centro de Estudios Hispánicos* in Madrid; in the junior or senior year, a long paper or project dealing with Spain or Spanish America; the Senior Conference in Hispanic Studies. (In effect, the student majors in one of the departments listed above with a concentration in Hispanic or Hispanic-American Studies.)

Courses: Anthropology 101, 204, [305a], Economics 202b, History [207], [211b], [212], [310b], 311b, History of Art 213, History of Religion 104a, [24(Swarthmore)], Interdepartmental [308], 310. Political Science 321a, Sociology 102a, Spanish: any course including those given in the Centro except 001, 003 and 202.

III. Interdepartmental Courses

Each year, certain courses are offered which cut across well-defined areas of knowledge and emphasize relationships among them. Such courses may be 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. 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.

[204b. *Words*: Mr. Damski.]

205a. *Narrative Technique in Continental Fiction*: Mr. Altman.

The masterpieces of European first-person narration, from Saint-Augustine to Sartre. Frequent reference to non-literary modes (e.g., chronicles, self-portraiture, cinema, etc.) in order to illuminate the problems of subjectivity and self-representation in literature. Prerequisite: a reading knowledge of one foreign language.

205b. *Don Juan in European Literature*: Mr. Maurin.

A study of the Don Juan theme, in European Narrative and Dramatic Literature, from Tirso de Molina to Montherlant and Camus. A knowledge of French is required; Spanish and German are recommended.

210a. *The Soviet System*: Mr. Hunter (Haverford).

See Economics 210a, page 69.

213a. *Myth in Practice and Theory*: Miss Lang.

Greek myths will be examined from two points of view: as a testing ground for various approaches to the study and interpretation of myths, both ancient and modern; as raw material for literary exploitation and development.

304b. *The Dynamics of Environmental Systems*: Mr. Anderson.

See Chemistry 304b.

[307a. *Introduction to Celtic Civilization*: Miss Dorian.]

[308. *Introduction to Linguistics*: Miss Dorian.]

310. *Introduction to Linguistic Techniques*: Miss Dorian.

Introduction to techniques of linguistic analysis: typology, phonetics, phonemics, morphemics, syntax; generative grammar; historical and comparative linguistics; writing systems and literacy.

312b. *Field Methods in Linguistics*: Miss Dorian.

Practical experience in transcription and analysis of an unfamiliar language. There will be an informant, and students will be able to develop their own methodology for approaching a language with which they have no previous experience.

[313a. *History of Science: Antiquity to the Renaissance*: Mr. Culotta.]

[314a. *The Rise of Modern Science*: Mr. Culotta.]

& b.

353. *Biochemistry*: Mr. Conner, Mr. Prescott, Mr. Young.

See Biology 353, page 59.

357b. *Computer Usage in the Life Sciences*: Mrs. Pruett.

See Biology 357b, page 60.

Fine Art

Associate Professor: Fritz Janschka, *Akad. Maler*

At Haverford:

Associate Professor of Fine Arts: Charles Stegeman, *Académie Royale des Beaux Arts.*

Assistant Professor of Fine Arts: R. Christopher Cairns, M.F.A.

The program is coordinated with, and complementary to, the Fine Arts program of Haverford College (see the Haverford College Bulletin). Courses are offered to both Bryn Mawr and Haverford students who are approved by the instructor.

110. *Free Studio:* Mr. Janschka.

Available two hours a week: (1) to all students, without credit; (2) with permission of the instructor a student may elect studio work to appear on her transcript without credit; (3) with permission of the instructor, students with previous experience may elect studio work for credit.

115. *Graphic Arts:* Mr. Janschka.

An introductory course in relief and intaglio print-making. Prerequisites: History of Art 101, a passing grade in Fine Art 110, Haverford Fine Arts 101, or proof of adequate previous training in drawing.

225. *Advanced Drawing:* Mr. Janschka.

An advanced course in drawing as an independent art-form. Prerequisites: Fine Art 115, Haverford Fine Arts 231 or 241, or proof of adequately advanced previous training.

Performing Arts

[101a. *Modern Dance: Techniques and Choreography.* Mrs. Mason,
& b. Mrs. Lember.]

201a. *Modern Dance: Advanced Techniques and Choreography.* Mrs. Mason, Mrs. Lember. Prerequisite: Performing Arts 101a & b.

403. *Voice or Instrument.*

Students who are sufficiently advanced and who have completed at least one year of voice or music lessons while at the College may with the approval of the Department of Music offer for one unit of academic credit a year of voice or instrument lessons. The unit will include the lessons and also a recital or proficiency test arranged by the Music Department.

Physical Education

Director: Anne Lee Delano, M.A.

Instructors: Linda Fritsche Castner, M.S.

Jan Eklund Fisher, M.ED.

Barbara Lember, B.F.A.

Ann Carter Mason, B.S.

Mary L. O'Toole, M.S.

Janet A. Yeager

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 all students to find some form of activity in which they may find pleasure and show improvement.

The program provides a Physical Education Profile Test optional for freshman and sophomores. Above-average performance releases the student from physical education for the year.

There is a two year requirement to be completed by the end of the sophomore year. In the freshman year each student will take three hours per week during the first semester; two hours in an activity of her choice and one hour per week in a specialized unit. The units are Dance Orientation, Relaxation, Sports Orientation. In the second semester and during the sophomore year each student will participate two hours per week in an activity of her choice. Each semester is divided into two terms in order that every student may participate in a variety of activities should she wish to do so.

All students must complete the freshman and sophomore requirements satisfactorily. Upperclassmen are invited to elect any of the activities offered. Transfer students will have their physical education requirement reviewed by the Director of Physical Education.

The Optional Test For Release

Areas contributing to a physical education profile to be determined by testing, using batteries of standardized tests and procedures, adapted to college women:

1. Aptitude and Achievement Battery (performance skill)
 - a. Standing broad jump
 - b. Sand bag throw
 - c. Obstacle course
2. Fitness Battery (strength and endurance)
 - a. Standing broad jump
 - c. Push-ups—modified
 - b. Sit-ups
 - d. 12-minute run
3. Body weight control

The Swimming Test (for survival)

1. Jump into deep end of pool (feet first entry), tread water one minute, back float motionless for two minutes, demonstrate two strokes while swimming lengths of pool for ten minutes without stopping, resting or touching bottom or sides of pool.
2. The swimming test is administered to every new student at the beginning of the year unless she is excused by the College Physician.
3. Students *unable* to pass the test must register for beginning swimming.

Seasonal Offerings

Fall: archery, fencing, golf, hockey, modern dance, riding,* swimming, tennis, volleyball and American Red Cross Senior Life Saving Course. *Winter:* badminton, basketball, diving, exercise therapy, fencing, folk dance, gymnastics, modern dance, physical fitness, riding,* swimming, tumbling and trampoline, volleyball, and American Red Cross Water Safety Instructor Training Course. *Spring:* archery, golf, gymnastics, lacrosse, riding,* swimming, tennis and American Red Cross Senior Life Saving.

A Modern Dance Club and Varsity teams are open to students with special interests in those areas.

* Open only to Sophomores with permission of the Department, and to Freshmen who have satisfied the requirements.

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 requesting aid does not apply to a particular fund but is considered for all awards administered by the College for which she is qualified.

Outstanding scholarship programs have been established by the National Merit Scholarship Corporation and the Procter and Gamble Fund. Awards for the Procter and Gamble Scholarship are made by Bryn Mawr College. Several large corporations sponsor scholarship programs for children of employees. 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 approximately forty per cent of the undergraduate students. The value of the scholarships ranges widely, but the average grant is approximately \$1800. 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 grants and loans (see page 172. Students receiving assistance are expected to earn money by

part-time work during the college year and by summer positions. Employment opportunities are described on page 53.

Scholarships are available to entering students, including students entering on transfer, and to students who have completed one or more years of study in the College.

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 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. Applications for financial aid for transfer students are due *no later than March 1*.

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 with their school counselors about national and local scholarships which may be available and to submit appropriate applications.

Undergraduate Financial Aid

Application for the renewal of financial aid must be made annually. The renewal of the award depends on the student's maintaining a good record and her continued need for assistance. Adjustments are made to reflect changes in the financial situation of the family. Marriage or reaching the age of 21, however, are not considered valid reasons for the withdrawal of parental support or for an increase in financial aid.

The necessary forms for renewal may be obtained in the Financial Aid Office and should be filed with the College Scholarship Service no later than January 1.

Scholarship Funds

The Mary L. Jobe Akeley Scholarship Fund was established by bequest of Mary L. Jobe Akeley. The income from this fund of \$146,993 is to be used for undergraduate scholarships with preference being given to students from Ohio. (1968)

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 fees 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 \$8,196, was established by bequests received for scholarships from alumnae of the College. (1965)

The Marion Louise Ament Scholarship Fund, now totaling \$73,414, was established by bequest of Berkley Neustadt in honor of his daughter, Marion Louise Ament of the Class of 1944. The income is to be used for scholarships. (1967)

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 Edith Heyward Ashley and Mabel Pierce Ashley Scholarship Fund was founded by bequest of Mabel Pierce Ashley of the Class of 1910. In 1969, the fund was increased by \$25,000 by bequest of Edith Heyward Ashley of the Class of 1905. The fund now totals \$50,000 and the income is to be awarded as a scholarship or scholarships to undergraduate students majoring in History or English. (1963)

Note: *The dates in parentheses in the listings on this and the following pages indicate the year the scholarship was established.*

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 \$55,000. (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)

The Book Shop Scholarships are awarded annually 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 was capitalized until in 1969 the fund reached the amount of \$25,000. The income henceforth is to provide scholarships with preference given to students from Toledo, Ohio, or from District VI of the Alumnae Association. (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 \$13,441, 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 \$13,441 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 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 Augusta D. Childs Scholarship Fund was established by bequest of \$45,000 from the estate of Augusta D. Childs. The income is to be used for undergraduate scholarships. (1970)

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 1967 College Bowl Scholarship Fund of \$16,000 was established by the Bryn Mawr College team from its winnings on the General Electric College Bowl Television Program. The scholarship grants were donated by the General Electric Company and by Seventeen Magazine and supplemented by gifts from the Directors of the College. The members of the team were Ashley Doherty (1971), Ruth Gais (1968), Robin Johnson (1969) and Diane Ostheim (1969). Income from this fund will be awarded to an entering freshman in need of assistance. (1967)

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 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 Rebecca Taylor Mattson Darlington Memorial Scholarship Fund was established by members of her family in memory of Rebecca Taylor Mattson Darlington, Class of 1896. The income is to be used for undergraduate scholarships. (1967)

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 \$12,713, 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 Bennett Brown of the Class of 1930. Preference 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 oc-

casation of the 55th reunion of the class. The income 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 IV eligible for aid in any undergraduate year. (1964)

The Helen Hartman Gemmill Scholarship, value \$500, first given for the year 1970-71, is awarded annually to a student majoring in English from funds provided by the Warwick Foundation. (1967)

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, first given for the year 1969-70, is awarded annually 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 totaling \$19,134, 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 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 award in so far as possible to

students whose major subject will lead to a medical education or a scientific education in chemistry. (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 Alice Lovell Kellogg Fund was founded by a bequest of \$5,000 by Alice Lovell Kellogg of the Class of 1903. The income is to be used for undergraduate scholarships. (1967)

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)

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 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 Alice Low Lowry Memorial Scholarship Fund was established by gifts amounting to \$12,238 in memory of Alice Low Lowry of the Class of 1938 by members of her family and friends. The income is to be used for scholarships. (1968)

The Katharine McBride Undergraduate Scholarship Fund was established by a gift of \$5,000 made by Gwenn Davis Mitchell, Class of 1954. This fund now amounts to \$5500. The income is to be used for scholarships. (1969)

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 Beatrice Miller Memorial Scholarship Fund was established by a bequest of \$83,966 from the Estate of Beatrice Miller Ullrich of the Class of 1913. The income only is to be used for scholarships. (1969)

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 \$13,000, 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 \$25,068, was established by the Class of 1944. The class on its 25th anniversary in May 1969 increased the fund by \$16,600. 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 income is 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. The income from the Peabody Fund is 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 Ethel C. Pfaff Scholarship Fund was established by a bequest of \$295,616 from Ethel C. Pfaff of the Class of 1904. The income from this fund is to be awarded to entering freshmen. (1967)

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 \$6,681, 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 \$11,308 in memory of both Anne Powers and her sister, Mrs. Hough (Ethel Powers), by Nancy Hough Smith of the Class of 1925. (1919)

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 Scholarships were 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 two students. The James E. Rhoads Memorial Junior Scholarship is awarded 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. The James E. Rhoads Memorial Sophomore Scholarship is awarded to a student who has attended Bryn Mawr College for at least one semester and who also meets the above conditions. (1898)

The Ida E. Richardson, Alice H. Richardson and Edward P. Langley Scholarship Fund was established by bequest of \$81,065 under the will of Edward P. Langley. The income is to be used for scholarships. (1970)

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 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 totaling \$4,400, 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 Scholarship Endowment Fund was established by a gift of \$4,300 from Constance E. Flint. The income only is to be used for scholarships. (1970)

The Judith Harris Selig Scholarship Fund was established in memory of Judith Harris Selig of the Class of 1957 by members of her family, classmates and friends. In 1970, the Fund was increased by a further gift of \$18,000 from her parents, Dr. and Mrs. Herman S. Harris. The income from the fund, now totaling \$30,078, is to be used for undergraduate scholarships. (1968)

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 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; 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 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 \$15,000, 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. (1950)

The Elizabeth P. Taylor Scholarship Fund, now amounting to \$13,746, was established by a bequest from Elizabeth P. Taylor of the Class of 1921. (1961)

The Ethel Vick Wallace Townsend Memorial Fund was established by Elbert S. Townsend in memory of his wife, Ethel Vick Wallace Townsend of the Class of 1908. The income on this fund, held by

the Buffalo Foundation, is to be used for undergraduate scholarships. (1967)

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 Mildred Clarke Pressinger von Kienbusch Scholarship Fund was established by C. Otto von Kienbusch in memory of his wife, Mildred Clarke Pressinger von Kienbusch, of the Class of 1909. The income from this fund of \$25,000 will be awarded each year to a student in need of assistance. (1968)

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 \$29,146 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 Black 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 Black 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 Black 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 Margaret Y. Kent Scholarship Fund, Class of 1908, was established by bequest of Margaret Y. Kent of the Class of 1908. The income from the fund of \$7,000 is to be used to provide scholarship assistance to foreign students. (1967)

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)

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 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 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 167). (1915)

The Academy of American Poets Poetry Prize of \$100 has been recently awarded each year 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.

The Horace Alwyne Prize was established by the Friends of Music of Bryn Mawr College in honor of Horace Alwyne, Professor Emeritus of Music. The award is presented annually to the student who has contributed the most to the musical life of the College. (1970)

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. 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 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 *Alexandra Peschka Prize* was established in memory of Alexandra Peschka of the Class of 1964 by gifts from her family and friends. The prize of \$100 is awarded annually to a member of the freshman or sophomore class for the best piece of imaginative writing in prose. The award will be made by a committee of the Department of English who will consult the terms stated in the deed of gift. (1968)

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. (1938)

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 Katherine Stains Prize Fund in Classical Literature was established by Katherine G. Stains in memory of her parents, Arthur and Katheryn Stains, and in honor of two excellent twentieth-century scholars of Classical Literature, Richmond Lattimore and Moses Hadas. The income on the fund of \$1,000 is to be awarded annually as a prize to an undergraduate student for excellence in Greek Literature, either in the original or in translation. (1969)

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 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 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 Blacks. (1940)

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)

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)

Loan Funds

Bryn Mawr College administers two kinds of loan programs. The first consists of four funds established through the generosity of alumnae and friends of the College. Applications for loans 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. 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. The total for four years must not exceed \$1,500. Students who wish loans may obtain from the Financial Aid Office or the Alumnae Office the necessary blanks which must be accompanied by a letter of recommendation from the Financial Aid Officer. As a rule, money is not loaned to freshmen or to students in their first semester of graduate work.

While the student is in college no interest is charged, but she may reduce the principal of the loan if she so desires. 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 him 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. 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. Non-scholarship students and graduate students are also eligible to apply for loans from this fund.

b. The maximum amount which can be borrowed for any given academic year is \$500.

c. 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. 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.

d. Loans are awarded by the Scholarship Committees of the Undergraduate School, the Graduate School of Arts and Sciences and the Graduate School of Social Work and Social Research.

The Clareth Fund was established in 1971 by a bequest to the College from the Estate of Ethel S. Weil. The income only is to be used for

students "specializing in economics or business." There is no interest due but the student must begin to repay the loan within six years after graduation.

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

Officers of the Alumnae Association

- President*, Mrs. Richard H. Dana, 180 E. 95th Street,
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- First Vice President*, Mrs. Booth Hemingway, 333 Old Long Ridge Road
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Averill Park, New York 12018
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Snyder, New York 14226

Candidates for admission who wish to talk with an alumna are invited to write to the Admissions Information Chairman in their area.

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Fayetteville, New York 13066

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Rochester, New York 14618

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Delaware Mrs. Harold G. Brown, Jr.,
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Mrs. E. Teisceira deMattos, 2153 Zoersel
(Prov., Antwerpen), Olmenlaan 286-2

Canada:

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Ottawa, K.I.M. 032
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Mrs. Harald Vestergaard, Hambros Alle 19, 2900 Hellerup

England:

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France:

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Germany:

Mrs. Hans Loening, Fischerhude bei 2801, Bremen

Greece:

Miss Elizabeth Douli, Korae 18, Nea Smyrne, Athens

India:

Miss Harsimran Malik, 7 Palam Marg, Vasant Vihar, New Delhi 57

Italy:

Mrs. Enrico Berra, Piazzale Biancamano, 20121, Milano

Japan:

Miss Taki Fujita, 20-4, 2-chome, Higashi-Nakana,
Nakano-ku, Tokyo
Miss Ai Hoshino, 20-4, 2-chome, Higashi-Nakana,
Nakano-ku, Tokyo

Mexico:

Mrs. Arturo Gomez, Liverpool 149-102, Mexico 6, D.F.

Netherlands West Indies:

Mrs. E. A. Eriksen, Box 447, Seroe Colorado, Aruba

Norway:

Mrs. Harold Sommerfeldt, Hoff Terrace 4, Skoyen, pr Oslo

Philippine Islands:

Mrs. Marcial C. Reyes, Jr., 14 Ilagan Street,
San Francisco del Monte, Quezon City

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Mrs. Oscar deSchnell, 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 30th Street Station in Philadelphia and from there 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 exit number 36, Pa. #320, Gulph Mills, which is 3.5 miles east of the toll gate; continue into 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. The parking lot on Morris Avenue also may be used by visitors.

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 Penn Central 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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