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Bridgewater State College

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STATE COLLEGE at BRIDGEWATER 1965–1967

The Commonwealth of Massachusetts
STATE COLLEGE
at
BRIDGEWATER

The Commonwealth of Massachusetts

DIVISION OF STATE COLLEGES
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# ACADEMIC CALENDAR 1965 – 1966

## FIRST SEMESTER

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Washington’s Birthday

April 1, 1966
End of Third Quarter

April 8, 1966
Good Friday

April 15 to April 25, 1966
Spring Recess

May 17, 1966
Honors Convocation (11:30 A.M.)

May 25, to June 3, 1966
Second Semester Examinations

May 30, 1966
Memorial Day

June 3, 1966
Close of Academic Year

June 5, 1966
Commencement Day

ACADEMIC CALENDAR 1966 – 1967

FIRST SEMESTER

September 9, 1966
Faculty and Department Meetings

September 14, 15, 16, 1966
Registration and Program-Making for Freshmen

September 15, 1966
Registration and Program-Making for Sophomores

September 16, 1966
Registration and Program-Making for Juniors and Seniors

September 19, 1966
Opening of Academic Year

September 27, 1966
Convocation (10:30 A.M.)

October 12, 1966
Columbus Day

November 10, 1966
End of First Quarter

November 11, 1966
Veterans’ Day
November 23 (Noon) to November 28, 1966 \text{ Thanksgiving Recess}

December 16, 1966 to January 3, 1967 \text{ Christmas Recess}

January 19 to January 27, 1967 \text{ First Semester Examinations}

January 27, 1967 \text{ End of First Semester}

January 30, 31, 1967 \text{ Intersemester Holidays}

SECOND SEMESTER

February 1, 1967 \text{ Registration and Program-Making for Juniors and Seniors}

February 2, 1967 \text{ Registration and Program-Making for Sophomores}

February 3, 1967 \text{ Registration and Program-Making for Freshmen}

February 6, 1967 \text{ Beginning of Second Semester}

February 22, 1967 \text{ Washington's Birthday}

March 24, 1967 \text{ Good Friday}

March 31, 1967 \text{ End of Third Quarter}

April 14 to April 24, 1967 \text{ Spring Recess}

May 23, 1967 \text{ Honors Convocation (11:30 A.M.)}

May 30, 1967 \text{ Memorial Day}

June 1 to June 9, 1967 \text{ Second Semester Examinations}

June 9, 1967 \text{ Close of Academic Year}

June 11, 1967 \text{ Commencement Day}
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Leonore M. Padula, B.A. (Emmanuel College), M.A. (Boston College), Instructor of French.

Joseph Michael Pagano, B.S. (Massachusetts Institute of Technology), M.S. (Boston College), Instructor of Chemistry.

Patricia Ann Phillips, B.S. (Massachusetts State College at Bridgewater), Ed.M. (Boston University), Instructor of Physical Education.

Douglas L. Reed, B.S. (Indiana University), M.B.A. (Texas Technological College), Instructor of Economics.

Marjorie Atwood Rugen, B.S. (Boston University), M.A. (New York University), Instructor of Physical Education for Women.
Joseph F. Russell, Jr., B.S., M.A. (Boston College), Instructor of Mathematics.

Louis Schippers, A.B. (Phillips University), B.D. (Texas Christian University), Instructor of Education.

Barbara Anne Shakespeare, B.A. (University of Windsor), M.A. (Ohio University), Instructor of Education.

Virginia Mary Shields, B.S., M.A. (St. John's University), Instructor of English.

Franklin R. Stern, B.A. (Dartmouth College), M.A. (Syracuse University), Instructor of Earth Sciences.

Mildred Ragsdale Wellman, B.A. (Denison University), M.S. (Smith College), Instructor of Physical Education for Women.

Carol Ann Wolfgram, B.S. (Wisconsin State College), M.A. (Colorado State College), Instructor of Physical Education for Women.

Vincent James Worden, B.S. (Massachusetts State College at Worcester), Ed.M. (Loyola College), Instructor of Education.

LABORATORY INSTRUCTOR

Antonio Manuel Cabral, B.S. (Massachusetts State College at Bridgewater), Biology.

BURNELL SCHOOL

Doris Margaret Sprague, B.S., Ed.M. (Massachusetts State College at Bridgewater), Associate Professor of Student Teaching and Principal.

Mary Carroll Doyle, B.S., Ed.M. (Massachusetts State College at Bridgewater), Instructor of Student Teaching—Grade IV.

Ruth Lawton Gamson, B.S, Ed.M. (Massachusetts State College at Bridgewater), Assistant Professor of Student Teaching—Grade I.

Elois Godfrey, B.S., Ed.M. (Massachusetts State College at Bridgewater), Instructor in Student Teaching—Grade III.

Elizabeth Maynard Higgins, B.S. (Massachusetts State College at Bridgewater), Ed.M. (Boston University), Instructor in Student Teaching—Grade III.
Helen Louise Hulsman, B.S. (Massachusetts State College at Bridgewater), Ed.M. (Boston University), Assistant Professor of Student Teaching---Grade IV.

Margaret Therese Joyce, B.S, Ed.M. (Massachusetts State College at Bridgewater), Instructor in Student Teaching---Grade II.

Mary Leota Marks, Diploma (Wheelock Normal School), Instructor in Student Teaching---Kindergarten.

Richard Mitchell Menice, B.S. (Massachusetts State College at Bridgewater), Ed.M. (Northeastern University), Instructor in Student Teaching---Grade IV.

Marion Emma Nelson, B.S., Ed.M. (Massachusetts State College at Bridgewater), Instructor in Student Teaching---Grade I.

Betty Ann Noyes, B.S, Ed.M. (Massachusetts State College at Bridgewater), Instructor in Student Teaching---Grade II.

Barbara Freeman Poe'Sepp, B.S, Ed.M. (Massachusetts State College at Bridgewater), Assistant Professor of Student Teaching---Grade III.

Ellen Bolin Rucker, B.S. (Massachusetts State Teachers College at Hyannis), Instructor in Student Teaching---Grade I.

Dorothy Sherman Wood, B.S. (Massachusetts State College at Bridgewater), Ed.M. (Boston University), Assistant Professor of Student Teaching---Grade II.
THE BRIDGEWATER PURPOSE

The State College at Bridgewater shares the national tradition of providing high quality education supported in large part by the State. Serving qualified students throughout the Commonwealth and particularly those living in the southeastern area, this college is committed to encouraging the broad educational preparation which is equally essential for making a maximum contribution to profession, community, and nation, and for developing a sound personal life. While maintaining its historical concern for preparing teachers, Bridgewater also dedicates itself to the education of students who may be interested in other vocations and professions.

Bridgewater strives to provide an atmosphere of integrity, justice, and social concern and to develop within the student a self-discipline which will be evident beyond the classroom. In addition to stimulating his intellectual curiosity, Bridgewater State College also provides the student with the opportunity to understand and appreciate the major contributions to man's knowledge of himself and of the physical and social world in which he lives.

Bridgewater offers programs leading to the degree of Bachelor of Arts, and to the degree of Bachelor of Science in Education. Both programs provide a general academic background as the foundation for specialization in major fields, including that of teaching. The Bachelor of Arts program seeks to prepare the student further in the specific methods, techniques, and knowledge of one of the following fields of concentration: biology, chemistry, physics, earth science, English, French, history and political science, and mathematics. The program leading to the Bachelor of Science in Education is designed to prepare teachers of elementary education and women teachers of health and physical education.

HISTORY OF THE COLLEGE

The second quarter of the nineteenth century was a period of tremendous political and intellectual growth in the United States. The movements toward more popular government, the extension of the franchise, and the "rise of the common man" were reflected in the need for better public schools and better trained teachers.

In Massachusetts, men like James G. Carter of Lancaster, who wrote extensively of the need for reform in public education, the Reverend Charles Brooks of Hingham, who had studied Prussian teacher-training institutions and who hoped to establish similar schools here, and the Honorable Edward Dwight of Boston, who offered to give $10,000 for preparing qualified teachers for our common schools on condition that the General Court should match this gift, were leaders in the educational activities of the 1830's. With their encouragement, Horace Mann, a brilliant Boston lawyer
who had sacrificed his extensive practice to accept the position of Secretary of the Massachusetts Board of Education in 1837 and who was a firm believer in the need for "trained teachers for every child," persuaded the General Court to establish three normal schools for the training of teachers on a three-year trial basis. The first of these schools opened in Lexington on July 3, 1839, was later moved to West Newton, and finally to Framingham. The second, which opened on September 4, 1839 at Barre, was later moved to Westfield.

Bridgewater began its career on September 9, 1840 in the old Town Hall under the distinguished sponsorship of such citizens of Plymouth County as ex-President John·Quincy Adams, Senator Daniel Webster, and the Honorable Artemus Hale. Mr. Nicholas Tillinghast, a graduate and former instructor at West Point Mili-
tary Academy, was principal. Twenty-eight students, seven men and twenty-one women, were admitted to the first class. Six years later the first building to be erected specifically for normal school work in America was built at Bridgewater. "Coiled up in this institution as in a spring," said Horace Mann at the dedication of this building, "there is a vigor whose uncoiling may wheel the spheres."

Under incredible odds Mr. Tillinghast labored for thirteen years. When he retired, the school was no longer an experiment, but a well-established part of the state's educational system. A number of Mr. Tillinghast's students took the lead in establishing normal schools in other states from Rhode Island to Illinois and Missouri.

Marshall Conant, the second principal (1853-1860), brought to the normal school the fruit of years of teaching in academies in Vermont, New Hampshire, Illinois, and Massachusetts. Under his leadership changes were made in the curriculum, especially in the enrichment of offerings in history and the sciences.

Albert Gardner Boyden, the third principal (1860-1906) who had been a student of Tillinghast and a teacher under Tillinghast and Conant, brought to Bridgewater the new psychological influence in education and instituted a period of growth and development that was continued by his son and successor, Arthur Clark Boyden (1906-1933). Bridgewater and Boyden were almost synonymous for three-quarters of a century. Under the Boydens, Bridgewater drew students from all over the United States, Europe, Latin America, Japan, and Burma. Teacher-training institutions in Armenia and in Japan in particular owe their establishment and development to Bridgewater graduates of this period.

In 1921 a legislative act empowered the normal schools to award the Bachelor of Science in Education Degree to any person completing a four-year course in a normal school, and Bridgewater
was one of the five state normal schools which granted the degree. In 1932, by act of the General Court, Bridgewater, together with the other state normal schools became a State Teachers College and in 1960 by another legislative act the Massachusetts teachers colleges became state colleges. These changes which brought the teacher training institutions of Massachusetts into line with other similar institutions gave them added prestige and has enabled them to expand the curriculum offerings to make possible the granting of the B. A. degree as well as the degree of B. S. in Education.

The fall of 1937 saw the opening of the graduate school which has now been absorbed by the Division of Continuing Studies. Courses are offered in this division during the afternoon and evening and on Saturday morning for teachers-in-service and for any interested adults desiring to continue their education. An organized program of studies is offered by this division during the summer both at Bridgewater and Hyannis.

A disastrous fire completely destroyed three of the main buildings on the Bridgewater campus, the main classroom building, Tillinghast Dormitory, and the old Woodward Dormitory on December 10, 1924. The only buildings saved were Normal Hall, now Woodward Hall, and the boiler plant. The efforts of a dedicated core of faculty members enabled the school to continue in temporary quarters, and the new buildings were dedicated on October 22, 1926.

Since World War II Bridgewater has undergone remarkable expansion in building, student enrollment, and size of faculty, and there are plans providing for the continuation of this growth through the next decade. The standards set by the early leaders have been maintained, and Bridgewater today retains the spirit exemplified by its motto “Not to be ministered unto but to minister.”

The first administrative heads of Bridgewater were “heirs on the spot” of a well understood policy. This unbroken line of succession led to an unusual growth and expansion. Each of the succeeding presidents, Dr. Zenos Scott (1933-1937), Dr. John Kelly (1937-1951), Dr. Clement C. Maxwell (1952-1962), and Dr. Adrian Rondileau (1962-- ) has brought to Bridgewater the particular type of leadership that was needed during his administration, thus endowing the college with a marvelous continuity of development.

During the academic year 1965-66 the college celebrates its 125th anniversary. No better tribute to Alma Mater’s growth from an experimental teacher-training institution to a fully accredited, internationally recognized multipurpose institution can be found than words of Albert Gardner Boyden who said years ago, “Thank God for the Bridgewater Spirit of progress, of enlargement of culture, of devotion, of service, of inspiration which has quickened so many thousands of young lives. It has been the animus of the institution from its very beginning and is marching on to multiply its achievement.”
ADMISSION

The selection of students who have the ability and preparation and who will most likely be successful in college studies is the basic aim of the admission requirements at the Massachusetts State College at Bridgewater.

Requirements:

Each candidate is considered on the basis of the following requisites:

A. Secondary school preparation. Candidates for admission must have a high school diploma from an accredited secondary school or an equivalent preparation. The high school record must certify completion of sixteen units (representing the study of a subject four or five periods a week for a full school year) accepted by the high school in fulfillment of graduation requirements, or the candidate must present evidence of equivalent preparation.

The 16 high school units must include

- English (including Grade XII) .................. 4 units
- American History and Government ............ 1 unit
- College Preparatory Mathematics .............. 2 units
- Biology, Physics, or Chemistry .............. 1 unit

Bachelor of Arts candidates must also have two units in a foreign language. Bachelor of Arts candidates desiring to major in Mathematics must present 3 units in College Preparatory Mathematics.

The distribution of the sixteen high school units shall not exceed the following limits in any field.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
</tr>
<tr>
<td>Social Studies</td>
<td>4</td>
</tr>
<tr>
<td>Science</td>
<td>4</td>
</tr>
<tr>
<td>Foreign Languages</td>
<td>7*</td>
</tr>
<tr>
<td>Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>Business</td>
<td>2</td>
</tr>
<tr>
<td>Fine Arts and Industrial Arts</td>
<td>2</td>
</tr>
<tr>
<td>Home Economics</td>
<td>2</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1**</td>
</tr>
</tbody>
</table>

*8 for Language majors. No credit is accepted for less than 2 units in any one language.

**For Physical Education majors only.
B. College Entrance Examination Board Tests. Candidates for admission are required to take the College Entrance Examination Board Scholastic Aptitude Test and the Achievement Test in English. Two other achievement tests are required according to the anticipated program of study:

Bachelor of Science Candidates with majors in Elementary Education and in Health and Physical Education (Women): two tests of the candidates choice.

Bachelor of Arts Candidates:
One test related to the intended major field of concentration. One test in a foreign language studied at the high school level and representing two units of study. (If English is the major field, the third required achievement test may be one of the candidate's choice.)

C. Personal Qualifications.

1. Personal Recommendations. The moral and social character of the candidate must, in the judgment of the President of the Massachusetts State College at Bridgewater, warrant the admission of the candidate. Confidential data concerning the candidate including the recommendation of the high school principal and comments by teachers are given consideration in determining the fitness of the candidate for the proposed program of study.

2. Health. The candidate, if a teacher-training program is his intended area of study, must be in good physical and mental health, free from any disease, infirmity, or other defect, any of which would render him unfit for public school teaching. All candidates, regardless of the intended area of study, are required to have a health examination prior to entrance. Information concerning such examinations is forwarded to prospective students after notification of acceptance.

Procedures:

A. Application forms and information concerning the application fee may be obtained from the Office of Admission, Massachusetts State College at Bridgewater. The non-refundable application fee of five dollars, payable to The Commonwealth of Massachusetts should be sent to The Division of State Colleges, 50 Franklin Street, Boston, Massachusetts.

B. Submission of Secondary School Record. An official transcript of the candidate's academic record and personal rating record must be submitted by the high school principal. The academic record must include the grades of the first marking period or first quarter of the candidate's senior year.
Methods of Admission:

A. Early Acceptance Plan. Candidates who have an average of 3.0 or better (A-4, B-3, C-2, D-1), in 16 acceptable units of high school work may qualify for early acceptance.

B. Candidates who have an average of 2.0 or better in 16 acceptable units of high school work qualify under the general acceptance plan.

Waiting List:

If the number of qualified applicants exceeds the number that the facilities of the college will accommodate, a waiting list is established. The position of a candidate on the waiting list is determined by his total academic and personal evaluation.

Dates of Admission:

A. January 15. Candidates qualifying under the early acceptance plan may be accepted at this time if all the requirements for admission have been met. It is expected that the student will continue to maintain a satisfactory academic record.

B. March 15. Early acceptance plan candidates who did not meet the requirements by the January 15 deadline may be accepted at this time if they have fulfilled the requisites. General acceptance plan candidates will be considered at this time if the requirements have been met.

Those candidates who have not met the requirements for admission by March 15 may jeopardize their chances of receiving consideration for acceptance since the college has the authority to close Freshman Admissions at this time.

Dormitory Placement:

A. Women. The requests for dormitory placement far exceed the actual openings available. Placement is based on the total evaluation of the candidate and the distance from her permanent place of residence. Women students are not allowed to live in private residences outside the campus.

B. Men. Provisions are made for male students to reside within the area of the college in homes approved by the college if dormitory facilities are not available. These placements are assigned in the summer months prior to the opening of the academic year.
Transfer Admission:

To be eligible for admission, a candidate who has attended another college or colleges must have an over-all "C" average from all the institutions attended and must be in good standing. The transfer candidate must comply with all the requirements for admission, and, in addition, he must present a transcript of credit, a statement of honorable dismissal, and a current catalog from the last college attended.

All applications should be filed by May 1.

No transfer candidate is given consideration for dormitory placement. Fulfillment of these requirements of admission does not imply acceptance. Since the number of transfer applicants is much greater than the number of openings available, those candidates who offer the best evidence of scholastic achievement are chosen.

FINANCIAL INFORMATION

EXPENSES

The following summary indicates as nearly as possible the regular expenses for which each student must plan in an annual budget:

I. FEES FOR RESIDENTS OF MASSACHUSETTS.

1. $200.00 a year payable in two installments at the beginning of each semester.

2. $7.00 a semester hour -- Courses for part-time day students.

3. $18.00 a semester hour -- Program of Continuing Studies.

4. $11.00 a semester hour -- Auditor in Program of Continuing Studies.

II. FEES FOR NON-RESIDENTS OF MASSACHUSETTS.

1. $600.00 a year payable in two installments at the beginning of each semester.

2. $21.00 a semester hour -- Courses for part-time day students.

3. $25.00 a semester hour -- Program of Continuing Studies.

4. $11.00 a semester hour -- Auditor in Program of Continuing Studies.
III. REGISTRATION FEE.

Each applicant for admission to a Massachusetts State College or the Massachusetts College of Art must pay a registration fee of $20.00 following notification of acceptance of admission. This fee will be deducted from the tuition of students who attend and will be forfeited by those who do not attend. Refunds for students leaving the college six weeks after the beginning of the semester will be based on the regularly-established schedule of refunds, minus the registration fee. This regulation became effective for students entering on or after September 1, 1955.

IV. TEXTBOOKS AND SUPPLIES.

Students are expected to purchase all necessary textbooks and supplies, at an approximate expense of $100.00 a year.

V. BOARD AND ROOM.

Each applicant for a dormitory reservation must pay a dormitory deposit of $25.00 following notification of admission to a dormitory. This deposit will be deducted from the total dormitory fee of students who attend. It will be forfeited by those who do not attend.

Rates for board and room are established by the Board of Trustees. The present annual rate is $480.00 payable as follows:

<table>
<thead>
<tr>
<th>Dormitory Deposit</th>
<th>$ 25.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opening of School, September</td>
<td>95.00</td>
</tr>
<tr>
<td>Beginning of Second Quarter</td>
<td>120.00</td>
</tr>
<tr>
<td>Beginning of Third Quarter</td>
<td>120.00</td>
</tr>
<tr>
<td>Beginning of Fourth Quarter</td>
<td>120.00</td>
</tr>
</tbody>
</table>

All payments must be made in advance without the presentation of bills. These regulations are subject to change by the Board of Trustees.

OTHER EXPENSES. Certain student enterprises which are supported by all the students are financed by means of the Student Activities Fee, which is payable at the beginning of each college year. This fee, presently $35.00, is mandatory.

A physical education fee of $12.00 is required of all freshmen. This fee covers towels, bathing suits, laundry, locker, and service privileges at the gymnasium.

The required gymnasium outfit for women in the regular curricula consisting of special uniform and shower equipment costs approximately $25.00. Full description with blanks for ordering will be sent out with notification of admission.
The required physical education outfit for men includes a jersey, gym shorts, sweat pants, sweat shorts, athletic supporter, gym socks, shower clogs, and towels, the approximate cost of which is $15.00. All men entering as freshmen or transfer students will be informed of the procedure of providing information on sizes to the dealer furnishing the uniforms.

**LOANS**

Alumni and friends of the college have at various times made contributions to the Students’ Loan Fund at Bridgewater, established for the purpose of extending aid to needy members of the Junior and Senior Classes. This fund is administered by a faculty committee, appointed by the president.

Students in the Sophomore, Junior, and Senior Classes may apply for loans to aid them in the payment of their college expenses at the office of the Massachusetts Higher Education Assistance Corporation, Statler Building, Boston, Mass.

Students in the Freshman class may apply at their high school or at the business office of this college for information in regard to scholarships from the Massachusetts Scholarship Foundation, Incorporated, 1746 Cambridge Street, Cambridge 38, Mass.

**NATIONAL STUDENT ASSISTANCE**

The Massachusetts State College at Bridgewater participates in the Financial Aid Program established by the Higher Education Act of 1965. This law unifies several previous aid programs dating back to the National Defense Act of 1958. There are provisions that virtually guarantee that no student will be denied a college education because of the lack of financial resources. The three basic provisions are:

1. The National Defense Student Loan Program. College students who are in need of financial assistance to continue or commence their college education may borrow up to $1,000.00 a year through this loan program. The law requires that each borrower be a full-time student, that he be, in the opinion of the college, capable of maintaining good standing in his chosen course of study. The law further provides that special consideration in the selection of loan recipients be given to students with a superior academic background who express a desire to teach in elementary or secondary schools. The borrower must sign a note for the loan. Repayment of the loan begins one year after the borrower ceases to be a full-time student, with payments being completed within ten years. No interest on the student loan may accrue prior to the beginning of the repayment period and interest thereafter is to be paid at the rate of 3% a year.
The National Defense Education Act contains a provision that up to 50% of a loan (plus interest) may be cancelled in the event a borrower becomes a full-time teacher in a public elementary or secondary school. Such cancellation is to be at the rate of 10% a year up to five years. The New Higher Education Act of 1965 further provides that in the event a borrower becomes a full-time teacher in a school district designated by the Federal Government as a poverty area, the rate of teacher cancellation will be 15% for the first six years and 10% for the seventh year, thus cancelling 100% of the loan (plus interest).

2. The College Work Study Program was established by the Economic Opportunity Act of 1964. This law allows the colleges to provide on or off campus work opportunities. Preferences must be given to those students whose family incomes do not exceed certain specified limits. However, the Higher Education Act of 1965 allows the financial aid officer to go beyond these low income restrictions. Students may be allowed to work up to 15 hours per week during a normal school week and up to 40 hours per week during vacations. A six-week summer work program is also offered. The work usually involves such experiences as helpers in secretarial, laboratory, library, and maintenance positions. Special arrangements can be made whereby students can be employed in off-campus jobs with public or private non-profit agencies such as libraries, YM(W)CA, and hospitals.

3. Under the Financial Aid Program of the Educational Opportunity Grants, a student, who otherwise could not continue his education and who is in good academic standing, can receive from $200.00 to $800.00 in grants, provided that the amount received is not in excess of 50% of the total aid received by the student (exclusive of CWSP). As an incentive toward higher scholarships, the financial aid officer is allowed to award an additional $200.00 to any student meeting the above qualifications who stands in the upper half of his class. These grants may be continued throughout the four academic years.

Students who meet the qualifications of all three forms of aid will have a "package" plan developed by which they will be asked to participate in all three programs. Students not qualifying for CWSP or EOG should plan to rely on the NDSL for financial aid. The NDSL and CWSP are also available to those undergraduates participating in the Bridgewater Summer School Program. A student recognizing the need for financial aid, either for the summer program or for the regular academic year, should make application by writing or calling at the Office of the Division of Student Personnel no later than May 1 of each year.
The regular academic year consists of two semesters of sixteen weeks each. Curricula leading to baccalaureate degrees are so planned that a student pursuing a normal program will ordinarily be able to complete the requirements for graduation in four years or eight semesters.

Graduation Requirements:

Degrees will be awarded to candidates who have fulfilled the following requirements:

1) a minimum of 120 semester hours of credit, distributed according to requirements of either the Bachelor of Arts or the Bachelor of Science curriculum;

2) completion of a minimum of at least one year of residence;

3) attainment of a cumulative average of 2.0 or higher;

4) clearance of all financial debts to the college.

Grading System:

The college uses the traditional letter-grade system of marking to indicate the student's relative performance: Excellent—A; Superior—B; Average—C; Passing—D; Failure—E. In computing averages, grades are assigned the following numerical values: A—4; B—3; C—2; D—1; E—0. Promotional averages are annually cumulative: for freshmen to advance to sophomore status, an average of 1.5 is required; to advance to junior status, an average of 1.75; to advance to senior status and to be eligible for graduation, a cumulative average of 2.0 is required.

Withdrawal from Courses:

A student may withdraw from any course at any time before the end of the first four weeks of the semester without any permanent record being made of the original registration. Dropping a course after the first four weeks requires that the course appear on the permanent record with either WP (withdrawn passing) or WF (withdrawn failing).

Warning, Probation, and Dismissal:

Warning notices are given at mid-semester to all students who fail to maintain a "C" average in any course.

At the end of each semester, all students whose averages fall below the required minimum standard are subject to dismissal.
Those students who are adjudged to have a reasonable chance of raising their total average to the acceptable level within one semester may be placed on probation, on the recommendation of the Faculty Committee on Academic Standing.

Honors Program:

Under the direction of a faculty committee a study is currently underway designed to make possible Honors Programs in each of the major disciplines. It is anticipated that this study will be completed during the 1965-66 academic year and that the programs will be available in 1966-67.

Dean’s List:

The Dean’s List is published each semester to honor academic achievement. A 3.3 average for all students in all classes is required.

Graduation Honors:

Academic excellence for the entire baccalaureate program is recognized by awarding degrees summa cum laude (cumulative average of 3.8), magna cum laude (3.6), and cum laude (3.3).

Withdrawal from the College and Re-admission:

Any student who must prematurely terminate his education should withdraw officially to insure honorable dismissal. Official withdrawal forms may be obtained from the Office of the Registrar and must be signed by the Academic Dean. Should the student leave the college without giving official notification, failing grades will be recorded for all courses.

Students who have officially withdrawn in good standing may apply for re-admission to the college through the Office of the Director of Admission. Application should be made as early as possible prior to the beginning of the semester, in order to secure a place on the roster before the quota enrollment is reached.

DEGREE PROGRAMS

The State College at Bridgewater is authorized to grant the degrees of Bachelor of Arts and Bachelor of Science in Education. The Bachelor of Science in Education degree prepares students for teaching in the elementary schools and prepares women students for teaching physical education and health education at all levels. The Bachelor of Arts degree allows the student to select from eight different areas of concentration, and provides preparation for secondary school teaching (if education is elected as a minor) and for graduate school.
BACHELOR OF ARTS:

General Education Requirements:

All students must take the following courses:

EN 101, 102; English Composition.

HI 111, 112; History of Western Civilization.

MA 105, 106; Mathematical Analysis. A student intending to major in one of the sciences should select either MA 101, 102, or MA 103, 104, according to his intention. These courses will satisfy the general distribution requirements in mathematics if the student selects another area of concentration before the end of the sophomore year.

EN 211, 212; Literary Classics of Western Civilization.

HI 221, 222; United States History and Constitutions.

OC 200; Oral Communications.

ED 200; General Psychology.

All students must demonstrate a knowledge of one of the following foreign languages: French, Spanish, or German, either by taking four semesters of one language, or by passing a foreign language or literature course at or beyond the fourth-semester level.

All students must elect two, one-year sequences in the laboratory sciences from among the following: Biology, Chemistry, Physics, Earth Science. Unless the student is given permission to take a more advanced course, or unless the student's intended major department recommends otherwise, the student will generally select from the following courses:

BI 110, 120; General Botany; General Zoology.

CH 131, 132; General Chemistry.

ES 181, 182; Physical Geology; Physical Geography.

ES 181, 192; Physical Geology; Historical Geology

PH 181, 182; Elements of Physics.

CH 200, PH 200; Survey of Chemistry; Survey of Physics.
All students must elect two one-semester courses from the following areas: Art, Music, Philosophy. Generally the student will elect from: AR 280 (Understanding the Arts); MU 320 (History and Development of Music); ED 380 (Introduction to General Philosophy).

All students must elect two one-semester courses from the following areas: Economics, Sociology, Government. Generally the student will elect from: EC 400 (Economic Principles and Problems); SO 280 (An Introduction to Sociological Analysis); HI 271 (Introduction to Political Science); HI 272 (American Government: The Federal System).

All students must take four semesters of physical education activities without credit, and HPE-M/W 110 (Personal Health).

Major Requirements:

Each student must complete not less than 24 and not more than 36 semester hours of credit in one of the following major fields of concentration: Biology, Chemistry, Earth Science, English, French, History, Mathematics, Physics. The student must select his major field by the end of the sophomore year.

Education Minor:

Students may elect an Education Minor (See: Education under “Courses of Instruction”) by taking a minimum of 18 semester hours in the sequence recommended by the Department of Education, six of which will be in student teaching.

BACHELOR OF SCIENCE IN ELEMENTARY EDUCATION

General Education Requirements:

All students must take the following courses:

EN 101, 102; English Composition.

AR 110; Introduction to Art.

MU 110; Music Theory.

MA 107, 108; College Mathematics for Elementary Majors.

HI 111, 112; History of Western Civilization.

BI 110; 120; General Botany; General Zoology.

CH 200, PH 200; Survey of Chemistry; Survey of Physics.
EN 211 or 212; Literary Classics of Western Civilization.
HI 221, 222; United States History and Constitutions.
LI 210; Children's Literature.
OC 200; Oral Communications I.
ES 200, 252; Fundamentals of Geography; Geography of Anglo-America.
ED 200, 224; General Psychology. Child Growth and Development.
AR 213, 214; Crafts in Elementary Education.
SO 280; Introduction to Sociological Analysis.
AV 310; Audio-Visual Methods and Materials.
MU 310; Music Skills.
ED 380; Introduction to General Philosophy.
EC 400; Economic Principles and Problems.

All students must take six semesters of physical education activities without credit, and HPE-W 110, (Personal Health), 220 (Methods and Materials and First Aid), 410 (School Health and Safety Education).

Major Concentration:
For specific major requirements, see Education under "Courses of Instruction."

BACHELOR OF SCIENCE IN HEALTH AND PHYSICAL EDUCATION FOR WOMEN

General Education Requirements:
All students must take the following courses:

EN 101, 102; English Composition.
BI 110; 120; General Botany; General Zoology.
MA 110; Elementary Statistics.
AR 120; Art in Physical Education.
MU 120; Music in Physical Education.
OC 200; Oral Communications I.

ED 200; 226; General Psychology; Adolescent Psychology.

HI 221, 222; United States History and Constitutions.

PH 251, 252; Introductory Physical Science.

SO 280; Introduction to Sociological Analysis.

ED 371; Supervised Student Teaching in Campus School

ED 380; Introduction to General Philosophy.

BI 385; 399; Physiology; Microbiology.

OC 400; Oral Communications II.

ED 420; Educational Measurements.

ED 471; Supervised Teaching in the Public Schools.

ED 480; Philosophy of Education.

Major Concentration:

All students are required to take the following courses in the Department of Health and Physical Education for Women: HPE-W 151; 161; 171, 172; 250; 252; 261, 262; 263; 351; 361; 372; 451; 462; 463; 464; 465; 471, in addition to Physical Education Activities.
Numbering of Courses:

Courses ending in an odd digit are generally offered in the first semester; courses ending in an even digit are generally offered in the second semester; courses ending in 0 are generally offered in both semesters. Elective courses numbered in the 200’s are generally open to all students beyond the freshman year; elective courses in the 300’s, to both juniors and seniors.

DIVISION OF PROFESSIONAL EDUCATION

AUDIO-VISUAL

Professor Henry Rosen, Chairman; Instructor Thomas S. Lee.

AV 310. Audio-visual Methods and Materials.

An introduction to audio-visual methods and materials designed to improve teaching, this course includes instruction in and application of still pictures, motion pictures, slides, filmstrips, recordings, radio, television, three-dimensional materials, field trips, flannel boards, chalk boards, and all types of teaching machines. Instruction in sources of teaching aids and supplementary materials accompanies the laboratory procedures. Credits and hours to be arranged.

Professor Rosen
Mr. Lee


This is a directed study course. The student will concentrate on the coordination of audio-visual materials in his field of choice and will build a course of study in the chosen concentration. Prerequisite: AV 310. Credits and hours to be arranged.

Professor Rosen

EDUCATION

The Education Department strives to provide the student with the professional competencies necessary to become an effective teacher, including an understanding of how students learn, a knowledge of the principles and philosophical foundations of American public education, and an ability to use appropriate teaching procedures, materials, and evaluation techniques. The most important part of the teacher preparation program is the provision for student teaching in actual school situations. The Education Department assumes responsibility for the programs of students desiring to teach in elementary schools and provides a minor program for all college students who wish to earn teacher certification.

In addition to the general education requirements (See: Bachelor of Science in Elementary Education under “Degree Programs”), students majoring in elementary education must take the following courses in their discipline: ED 224, 330, 340, 350, 371, 420, 454, 460, 470, 471, 480. Elementary majors must have a concentration in one of the following fields: English, Speech, Art, Music, Language, History, Biology, Earth Science, Physical Science, Mathematics, Library Science and Kindergarten–Primary. This concentration will consist of at least nine semester hours credit beyond the general education requirements.

**Education Minor**

Students preparing to teach in secondary schools pursue a program leading to the degree of Bachelor of Arts with a minor concentration in Education. Students in the classes of 1967 or 1968 may have chosen this program or one leading to a Bachelor of Science degree in Education. The latter has been discontinued for all subsequent entering classes. The education minor in the B.A. program enables the student to receive a Secondary Teaching Certificate immediately upon graduation. Each student must complete a minimum of 18 semester hours of credit in professional education courses, 6 of which will be earned in student teaching in the senior year. The following courses are required for the minor: ED 310, 312-324, 420, 471, and 480.

**EDUCATION**

**Education A. College Orientation.**

The purposes of this course are to help the freshman student interpret his new environment; to aid him in making more efficient use of the tools and methods essential for study; and to encourage the development of a professional personality. Required of all freshmen; 1 period weekly for 2 semesters; no credit.

Mrs. Grybauskas  
Miss Shakespeare  
Mr. Deep
ED 200. General Psychology.

This is an introductory course planned to acquaint the student with the techniques of modern psychology, the structure of behavior, conditions and theories of learning, and theories of personality development. 3 periods weekly; 3 semester hours credit.

Professor Lutz
Associate Professor Hollis
Mr. Schippers


A study will be made of the growth and development of the child from birth to pre-adolescence. Attention will be focused on biological, psychological, and social factors as well as moral forces which influence child behavior. Prerequisite: ED 200; 3 periods weekly; 3 semester hours credit.

Professor Lutz
Associate Professor Hollis

ED 226. Adolescent Psychology.

The purpose of this course is to provide a better understanding of the pre-adolescent and the adolescent. A study will be made of the major theories of adolescence. Physical, mental, moral, emotional, personality, and social aspects will be considered. Prerequisite: ED 200; 3 periods weekly; 3 semester hours credit.

Mr. Schippers

ED 310. Principles of Secondary Education.

The secondary school in a democratic society is examined in terms of its objectives, structures, and articulation with elementary and higher education. Its development is reviewed and a comparison is made to secondary education in other countries. Emphasis is placed on the history and philosophy of the secondary school, the nature of the learning process, and teaching methods. Special attention is given to planning, discipline, evaluating pupil progress, classroom management, and the meeting of individual differences. 3 periods weekly; 3 semester hours credit.

Assistant Professor Kelley


Mr. Keay


Associate Professor Joki
Associate Professor Maier
Assistant Professor Kelley

Associate Professor Weygand
Assistant Professor Kelley

Professor Cirino
Assistant Professor Kelley

Assistant Professor Lemos
Assistant Professor Kelley

Assistant Professor Kelley
Staff of the Modern Foreign Languages Department

The above courses are comparable in purpose and design, differing as application is made to a particular subject field. The main emphasis will be on the establishing of objectives, the choosing of appropriate content, procedures, and materials, and the techniques of planning necessary to accomplish the objectives. Other topics will include classroom organization and management, meeting of individual differences, evaluation and reporting of progress, and recent developments in methodology and subject matter.

ED 330. Teaching of Reading in the Elementary School.
This course will consider how reading instruction is initiated, how basic reading abilities are developed, and how growth in voluntary reading is encouraged. The essentials of an effective developmental reading program will be examined with attention to organizing reading groups and evaluating progress. 3 periods weekly; 3 semester hours credit.
Associate Professor Deasy

ED 337. Civic Education and Social Studies Methods.
This course is concerned with various methods of teaching the social studies, chiefly history, in the secondary schools. Particular emphasis will be given to aspects of education for citizenship, which will include the development of civic intelligence, civic responsibility, inter-group understanding, respect and good will. Required of B.S. History majors; 2 periods weekly for 3 quarters; 3 semester hours credit.
Assistant Professor Spence
ED 340. Language Arts Materials and Methods in Elementary Education.

Stress is on providing for child growth in oral and written communication through developing the skills of spelling, oral language, and written language. Topics covered are 1) objectives of the program; 2) knowledge and diagnosis of needs and instructional problems; 3) provision for individual differences through the selection and effective use of varied general and specific techniques and materials; 4) correlation of English with other subject areas; and 5) using varied instruments for evaluating and measuring materials and results. 3 periods weekly; 3 semester hours credit.

Assistant Professor Nadal


Through this course students become acquainted with the purpose and content of the contemporary elementary school mathematics curriculum. Emphasis is placed on a study of a wide variety of effective teaching procedures and instructional materials designed to meet the varying abilities within the elementary school classroom. 3 periods weekly; 3 semester hours credit.

Associate Professor Lindquist


This course treats the philosophy, importance, and development of pre-school and primary education. Opportunity is given to study how children learn to live together, how they gain the experience which will lay the foundation for a feeling of adequacy in a group and in the new world of school. Curriculum, methods, materials, and facilities are examined and evaluated. This course is required of junior elementary majors choosing the Kindergarten-Primary Concentration. 3 periods weekly; 3 semester hours credit.

Miss Marks

ED 371. Supervised Student Teaching in the Campus Schools.

The Campus Schools serve as laboratories in which students engage in the directed study of children in learning situations as they are encountered in a modern school. As the study progresses, students participate increasingly in the activities of the school to the point at which they can undertake the duties of the room teacher. Included in this course are several hours of weekly conferences with the supervising teachers and weekly seminars with specialists in the fields of art, music, speech, and physical education. 1 quarter; 6 semester hours credit.

Staff
ED 372. Success in Beginning Reading.

Theories and research in reading readiness, along with the different approaches to beginning reading currently being advocated, will be examined in order to determine the kinds of experiences and instruction most likely to insure that each pupil will meet with success in learning to read. Procedures and materials necessary for providing these elements of success will be identified and developed. Practical experience will be provided through an opportunity to work with primary pupils who need extra help in order to achieve this successful start. This course is required of junior elementary majors choosing the Kindergarten-Primary Concentration. 3 periods weekly; 3 semester hours credit.

Associate Professor Deasy

ED 380. Introduction to General Philosophy.

This course is an introduction to logical and critical reflection upon the opinion of philosophers concerning the meaning, terminology, and basic problems of philosophy, which should enable the student to begin structuring his own thinking. 3 periods weekly; 3 semester hours credit.

Associate Professor Corkery
Assistant Professor Englund

ED 420. Educational Measurements.

Included in this course is an examination of the development of the testing, measurement, and evaluation movement. A review and evaluation of tests and other evaluative methods needed for the measurement of mental maturity and educational growth in the student’s field of specialization, and a study of elementary statistical procedures necessary for their interpretation, complete the course offerings. 3 periods weekly; 3 semester hours credit.

Professor DiNardo
Mr. Worden

ED 433. Introduction to Guidance.

Emphasis will be placed on the philosophy and historical development of the guidance movement; the need for guidance; the nature of guidance services in the schools of today; the personnel, facilities, and procedures involved; and the role of the classroom teacher in guidance. 3 periods weekly; 3 semester hours credit.

Associate Professor Dooley


Emphasis will be on the essential features of the curriculum of the modern secondary school and the current problems and issues in-
volved. Special attention will be given to the role of the teacher in curriculum evaluation and revision, and the problems of the beginning teacher, especially securing a position, and professional relationships. Student teaching experience will be shared and actual school problems and case situations explored. 3 periods weekly; 3 semester hours credit.

Professor Clement

ED 454. Seminar in Elementary Education.

This course provides a culmination of all professional experiences in preparation for teaching. Included are a review and evaluation of current elementary school practices, discussion of professional ethics and school law, professional growth opportunities, procedures for securing a teaching position, and preparation for and the responsibilities of the first teaching position. 2 periods weekly; 2 semester hours credit.

Staff

ED 460. Science Methods and Materials in Elementary Education.

This course will acquaint students with the goals of elementary science instruction and the methods of attaining these aims through such experiences as problem-solving, experimenting, observing, participating in field trips, and other essential activities. An examination will be made of new elementary science programs, current elementary science textbooks, films, and scientific equipment. 2 periods weekly; 2 semester hours credit.

Miss Farrell

ED 470. Social Studies Methods and Materials in Elementary Education.

Emphasis is placed on current trends in the social studies curriculum including the following topics: 1) objectives in social studies instruction; 2) child growth and development characteristics and their implications in teaching; 3) organization of the program; 4) creative pupil-teacher planning; 5) teaching techniques using varied instructional materials and procedures; and 6) evaluating child growth, methods and materials, and the achievement of objectives. 2 periods weekly; 2 semester hours credit.

Miss Farrell

ED 471. Supervised Teaching in the Public Schools.

This period provides opportunity in the public schools for continuous supervised experiences in all classroom activities under regular classroom conditions. Experience is gained in the study of individual differences, teaching techniques, and classroom management. Supervision is given by the classroom teacher and by members of the college faculty. Students are expected to carry a minimum respon-
sible teaching load equal to 50% of the regular classroom teacher’s assignment. Required of all teaching candidates; 1 quarter; 6 semester hours credit.

ED 480. Philosophy of Education.

Through research and discussion, students are expected to analyze and relate the metaphysical, epistemological, ethical, and social theories of philosophy to educational theories and practices. 3 periods weekly; 3 semester hours credit.

Professor Shea
Assistant Professor Englund

HEALTH AND PHYSICAL EDUCATION FOR MEN

Associate Professor Harry A. Lehmann, Chairman; Associate Professor Edward C. Swenson; Instructor David P. Deep.

This department offers practice and theory courses designed to improve physical fitness, provides experience in a variety of team and individual activities, and develops basic concepts in health, first aid, and physical education. The opportunity is provided for men to participate in a variety of intramural and intercollegiate athletic activities and to prepare for coaching several team sports.

All men are required to successfully complete the following courses: HPE-M 110, 123, 124, 223, and 224. All men in the Bachelor of Science curriculum are also required to successfully complete the following courses: HPE-M 230 and 300.

HPE-M 110. Personal Health.

This course is designed to enable the student to develop principles of good health based on scientific research. It provides for the study of health as it concerns the adult; common attitudes and practices and their importance in happy and effective living, significant diseases, and public health responsibilities. 2 periods weekly; 2 semester hours credit.

Associate Professor Lehmann

HPE-M 123, 124. Physical Education Activities for Freshmen.

This course is designed to improve physical fitness and to help the individual student to develop fundamental skills, knowledge and appreciation of physical education activities. Individual and team activities are included in the course. In the second semester work in aquatics, students are classified and grouped according to their competence in swimming. 2 periods weekly for each semester; no credit.

Staff
**HPE-M 223, 224. Physical Education Activities for Sophomores.**

Continued emphasis is placed on physical fitness and the development of fundamental skills. Aquatics and other activities of a recreational nature are stressed. 2 periods weekly for each semester; no credit.

**Staff**

**HPE-M 230. Standard First Aid.**

Emphasis is placed on the prevention of accidents as well as on the immediate treatment of injuries and illnesses. Upon satisfactory completion of the course, students will receive the American Red Cross Standard First Aid certificate. The course is open to Bachelor of Arts students on an elective basis. 1 period weekly; 1 semester hour credit.

**Associate Professor Swenson**

**HPE-M 300. Orientation in Health and Physical Education.**

This course is designed to acquaint students preparing for teaching careers with the role of health and physical education in the public school curriculum. Emphasis is placed on the health and physical education program in the elementary school and on the intramural and interscholastic program at the secondary school level. This course is open to Bachelor of Arts students during the junior or senior year on an elective basis. 1 period weekly; 1 semester hour credit.

**Mr. Deep**

**HPE-M 301. Methods and Techniques in Coaching Football.**

This course is designed to prepare students to assume football coaching responsibilities in the public schools. Emphasis is placed on fundamental skills and on offensive and defensive team play. Prerequisite: permission of the Instructor; open to Juniors and Seniors. 2 periods weekly for one quarter; 1 semester hour credit.

**Associate Professor Swenson**

**HPE-M 302. Methods and Techniques in Coaching Baseball.**

This course is designed to prepare students to assume baseball coaching responsibilities in the public schools. Emphasis is placed on batting, pitching, and the fundamentals needed at all other positions. Offensive and defensive team play is also covered. Prerequisite: permission of the Instructor; open to Juniors and Seniors. 2 periods weekly for one quarter; 1 semester hour credit.

**Associate Professor Lehmann**
HPE-M 310. Methods and Techniques in Coaching Basketball.

This course is designed to prepare students to assume basketball coaching responsibilities in the public schools. Emphasis is placed on fundamental skills and on offensive and defensive team play. Prerequisite: permission of the Instructor; open to Juniors and Seniors. 2 periods weekly for one quarter; 1 semester hour credit.

Mr. Deep

HPE-M 320. Methods and Techniques in Coaching Soccer and Track and Field.

This course is designed to prepare students to assume coaching responsibilities in soccer and track and field in the public schools. Emphasis is placed on soccer fundamentals and team play and on coaching the various track and field events. Prerequisite: permission of the Instructor; open to Juniors and Seniors. 2 periods weekly for one quarter; 1 semester hour credit.

Associate Professor Swenson

HEALTH AND PHYSICAL EDUCATION FOR WOMEN

Professor Mary J. Moriarty, Chairman; Assistant Professors Mary I. Caldwell, Mary L. Thornburg; Instructors Ann O. Coakley, Regina Gross, Shirley J. Krasinski, Patricia A. Phillips, Marjorie Rugen, Mildred R. Wellman, Carol Wolfgram.

The Department of Health and Physical Education for Women offers instruction in recreational skills, physical conditioning, and health for all college women. Regular participation in activities is encouraged through required courses and extra-class activities in order that the student may develop interest and skills which she can enjoy in her leisure time.

The Department of Health and Physical Education offers a professional curriculum in Health and Physical Education for women. The basic program is planned to satisfy the needs of the student who will teach in the public schools; it includes sufficient work in health education to enable her to qualify for positions which require the teaching of both physical education and health education. Through varied activities in the classrooms, the gymnasium, and on the playing fields, the students are given the opportunity to acquire scientific knowledge, specialized skills, and physical fitness, and to attain essential philosophies, techniques, principles, and evaluative procedures.
HPE-W 110. Personal Health.

The aim of this course is to help the freshman student develop standards and principles of good health for the adult. It provides for study in the following areas: 1) attitudes and practices as they influence effective living; 2) common adult health problems; 3) community health service and adult responsibility. 2 periods weekly; 2 semester hours credit.

Assistant Professor Caldwell

HPE-W 123, 124. Physical Education Activities for Freshmen.

This course includes swimming, sports, and dance activities. 2 periods weekly for each semester; no credit.

Miss Coakley and Staff

HPE-W 220. Methods and Materials and First Aid.

The American Red Cross Standard First Aid course is given, with emphasis upon the responsibility of the public school teacher and leader of physical activities. Methods of conducting a physical education program to meet the needs, interests, and abilities of elementary school children are presented to elementary education majors. An opportunity to observe and work with children from the College Laboratory School is provided. 2 periods weekly; 2 semester hours credit.

Miss Krasinski
Miss Rugen

HPE-W 223, 224. Physical Education Activities for Sophomores.

Continued emphasis is placed on physical fitness through participation in team sports, dance activities, and swimming. 2 periods weekly for each semester; no credit.

Miss Coakley and Staff

HPE-W 323, 324. Physical Education Activities for Juniors.

Team sports, individual and dual sports, swimming, and dance activities are included. 2 periods weekly for each semester; no credit.

Miss Coakley and Staff

HPE-W 410. School Health and Safety Education.

A brief study is made of human growth and development with special reference to the needs of the child in relation to his health and physical activity. The responsibility of the school in meeting these needs is analyzed and the total program in health and safety is studied with emphasis on the part played by the classroom teacher.
Methods and materials for teaching at various grade levels are studied in light of educational philosophy, principles, and objectives. 2 periods weekly; 2 semester hours credit.

Miss Phillips

MAJOR CURRICULUM IN HEALTH AND PHYSICAL EDUCATION FOR WOMEN

HPE-W. Physical Education Activities for Freshmen.

Freshmen activities include body mechanics (101); gymnastics (104, 105); rhythmic courses in folk, modern, social, square, and tap dance (142, 144, 145, 146, 147); swimming (122); and team sports such as basketball (131), field hockey (133), and soccer (137). Gymnastic courses cover stunts and tumbling for individual, couple, and group activities, and basic skills on the balance beam, box, buck, flying rings, horizontal ladder, parallel bars, travelling rings, and stall bars. Special emphasis is placed on the study and use of rhythmic movement as a medium of expression and communication and the basic patterns in the various dance areas. Individual, dual, and team sports stress fundamental skills, rules, and scoring, care and use of equipment, and safety procedures. 6 periods weekly; 3 semester hours credit for each semester.

Staff

HPE-W 151. Personal and Community Health.

This course helps the student develop standards and principles of good health for the adult. It provides for study in the following areas: 1) attitudes and practices as they influence effective living; 2) common adult health problems; 3) community health standards and services; 4) special problems of concern in the area of community health to a democratic society. 3 periods weekly; 3 semester hours credit.

Assistant Professor Caldwell

HPE-W 161. Introduction to Physical Education.

This is a comprehensive freshman course providing basic information concerning the scope and significance of physical education as a profession. 2 periods weekly; 2 semester hours credit.

Miss Coakley


This course includes a fundamental study of the human body and its parts, with special emphasis on bones, muscles, and tissues. 171 is prerequisite to 172. 2 periods weekly; 2 semester hours credit for each semester.

Professor Moriarty
HPE-W. Physical Education Activities for Sophomores.

Sophomore activities include dance: folk (241) and modern (244); dual sports: badminton (224) and tennis (225); games (211); gymnastics (202); methods laboratory (216); and team sports: basketball (232), field hockey (233), and softball (238); and swimming (222). Rhythmic activities include the direction and development of creative rhythmic movement of the child, as well as the cultural and historical background of dance in other countries. Dual and team sports stress team play, strategy, teaching methods, coaching systems, officiating techniques, and advanced skills. Gymnastics course is a comparison of Danish, German, and Swedish with modern theories of exercise. Methods laboratory is coordinated with the Methods course. Opportunities are provided for students to apply teaching techniques and principles to classes from the College Laboratory School. 6 periods weekly; 3 semester hours credit for each semester.

Staff

HPE-W 250. First Aid.

The development of safety consciousness as well as skill in caring for injuries is achieved through the American Red Cross Standard Course. Satisfactory completion results in certification by the Red Cross. 1 period weekly; 1 semester hour credit.

Miss Rugen

HPE-W 252. Methods in Health Education.

A study is made of the responsibility of the school for the health education of the growing child with emphasis upon the role of the teacher. Basic emphases throughout the course are 1) consideration of the child’s needs for health learnings as determined by such factors as heredity, growth and developmental patterns, and home, school, and community influences; 2) the selection of health content to meet these needs; 3) the analysis of the learning and teaching processes as applied to health in the light of modern educational philosophy. 2 periods weekly; 2 semester hours credit.

Miss Phillips

HPE-W 261, 262. Officiating.

This course is given to train officials for conducting competition in field hockey, basketball, swimming, and softball. Practical as well as theoretical examinations are included with opportunities to earn recognized ratings in field hockey and basketball. 261 is prerequisite to 262. 2 periods weekly; 2 semester hours credit for each semester.

Assistant Professor Thornburg
Miss Coakley
Miss Rugen
HPE-W 263. Methods in Physical Education.

This course suggests techniques and methods for teaching appropriate activities at the different grade levels. Practical application of teaching principles is carried on, using elementary grade classes from the College Laboratory School. 2 periods weekly; 2 semester hours credit.

Professor Moriarty

HPE-W. Physical Education Activities for Juniors.

Junior activities include dance: modern (344) and square (347); games (311); gymnastics (307); individual and dual sports: archery (326), swimming (322), track and field (328); team sports: lacrosse (334) and volleyball (339). Modern dance provides opportunities for the production and evaluation of simple dances and the use of various forms of accompaniment; square dance presents opportunities for the students to learn to call basics with stress given to voice, styling, timing, and techniques of teaching. Students must pass minimum American Red Cross swimming tests. Qualified swimmers may elect Water Safety Life Saver and Instructor courses. Emphasis is placed on advanced skills. 6 periods weekly for 3 quarters; 4.5 semester hours credit.

Staff

HPE-W 351. Body Mechanics and Adapted Programs.

This course helps the student develop sound principles of good body mechanics. It provides for study in the following areas: 1) desirable posture patterns and their common variations; 2) relaxation techniques as related to good posture and physical fitness; 3) adapted programs in physical education. 2 periods weekly; 2 semester hours credit.

Assistant Professor Caldwell

HPE-W 361. Coaching.

Emphasis is placed upon analyzing techniques and methods of presentation for teaching team and individual sports, dance, and gymnastics at the secondary school level. Opportunities for assisting in college classes are provided. 2 periods weekly for 3 quarters; 3 semester hours credit.

Assistant Professor Thornburg
Miss Gross


This course includes detailed analyses and the application of anatomical knowledge and mechanical principles to fundamental muscular
movements in athletic and rhythmic activities. 3 periods weekly; 3 semester hours credit.

Professor Moriarty

HPE-W. Physical Education Activities for Seniors.

Senior activities include gymnastics (405); recreation (414, 422); dual sports: archery (426), badminton (423), golf (420, 421), and tennis (425); and lacrosse (434). History and philosophy of recreation is included as well as opportunities for leadership and participation in school and community programs. Stress is placed on advanced skills in carry-over activities for future leisure time

Staff

HPE-W 451. School Health Administration and Safety.

Emphasis is placed upon the school personnel’s responsibility for providing a healthful environment, good health services, and adequate instruction in health education. The organization and content of the program in health are studied and discussed. The need for health guidance to meet the needs of all the children, including exceptional children, is stressed. 3 periods weekly; 3 semester hours credit.

Professor Moriarty

HPE-W 462. Evaluation in Physical Education.

In this course the student learns to apply the fundamental principles of evaluation and measurement in physical education. Various tests and testing programs are studied and evaluated. Experience in administering and scoring tests is provided, and a study is made of the interpretation and use of the results obtained. 2 periods weekly; 2 semester hours credit.

Professor Moriarty

HPE-W 463. Seminar in Physical Education.

This course is designed to encourage the student in the use of research methods through the preparation, presentation, and discussion of written and oral projects related to current trends in the fields of health, physical education, and recreation. 2 periods weekly; 2 semester hours credit.

Professor Moriarty and Staff

HPE-W 464. Supervision in Physical Education.

This course attempts to meet the urgent needs for more adequate training of future directors of physical education, in order that there may be better supervision of physical education programs in the elementary and secondary schools. Classes study organization and
planning; procedures for visitation and conferences; and the various functions of the supervisor at the different grade levels. Supervision in health education, safety education, and extra-class programs is also included. 3 periods weekly; 3 semester hours credit.

Associate Professor Lehmann

HPE-W 465. Organization and Administration of Physical Education.

The philosophies, policies, and procedures of the organization and administration of physical education programs are discussed. Special attention is given to pertinent problems which face the contemporary physical educator. 2 periods weekly; 2 semester hours credit.

Miss Coakley

HPE-W 471. Physiology of Exercise.

This course includes the study of the function of various body systems, their interrelationships, and adjustment during exercise. Current research is incorporated in the study of fatigue, training, and fitness. An opportunity for individual investigation of problems of interest is offered. 2 periods weekly; 2 semester hours credit.

Assistant Professor Thornburg

LIBRARY SCIENCE

Associate Professor Beatrice Bouchard, Chairman; Associate Professor Cora M. Vining; Instructors Mary L. Gloster, Olive Lee.

The Department of Library Science offers library instruction to all students during their freshman year, to upperclassmen in elective courses, to students majoring in education who wish to minor in library science and to prepare for certification as school librarians in Massachusetts. The requirements for Massachusetts School Librarian certification, effective May 1, 1963, are a bachelor's degree from a college approved by the Board of Education, which degree includes at least eighteen hours in Library Science Education. Courses indicated by asterisks are required for certification.

Library Introduction.

Freshmen are exposed to the Library during four one-hour periods. One of these periods is devoted to testing students on their library skills, and three are lectures on general reference literature and on basic procedures in meeting reference problems. Required of all freshmen; 4 one-hour periods; no credit.

Staff

This course covers the reading interests of children from pre-school years through the elementary grades with emphasis on: the contribution that reading can make toward the process of growing up; criteria for evaluation and analysis of children’s books; types of books available today, considered in terms of the needs, interests, and abilities of children. Topics covered are: history of literature for children; illustrators; folk-tales; myths; modern fanciful tales; fiction; poetry; books in special fields, such as, history, science, travel. 3 periods weekly; 3 semester hours credit.

Associate Professor Bouchard
Miss Gloster

LI 220. *Literature for Young Adults.

This course is a survey of literature for the adolescent designed for junior and senior high school teachers and librarians, and includes a brief history of the development of this literature, evaluation of publishers, and psychology of the adolescent reader. 3 periods weekly; 3 semester hours credit.

Associate Professor Bouchard
Assistant Professor Lomax


This general course is designed for students who are interested in improving their proficiency in the use of the library. Encyclopedias, dictionaries, bibliographies, periodical indexes, and other aids to learning are examined. 3 periods weekly; 3 semester hours credit.

Miss Lee


This specialized course in library techniques is offered for students desiring instruction in the reference materials of the humanities. LI 281 is recommended as a prerequisite but not required. 3 periods weekly; 3 semester hours credit.

Miss Lee


This specialized course in library techniques is offered for students desiring instruction in the reference materials of the Social Sciences. LI 281 is recommended as a prerequisite but not required. 3 periods weekly; 3 semester hours credit.

Miss Lee

This specialized course in library techniques is offered for students desiring instruction in the reference materials of Science and Technology. LI 281 is recommended as a prerequisite but not required. 3 periods weekly; 3 semester hours credit.

Miss Lee


This specialized course in library techniques is offered for students desiring instruction in the reference materials of Education. LI 281 is recommended as a prerequisite but not required. 3 periods weekly; 3 semester hours credit.

Miss Lee


This course in the use of library reference materials is intended to give students the instruction that will enable them to use and administer the reference collection in a materials center. Emphasis is placed on the selection of materials and their effective utilization. 3 periods weekly; 3 semester hours credit.

Miss Lee


This course is designed for the student who wishes to acquire a greater appreciation of the book and to broaden his knowledge of the science of book composition. The topics covered are: means of recording information; the evolution of the book; book composition, publishing, and economics. Special topics are covered by guest lecturers. 3 periods weekly; 3 semester hours credit.

Associate Professor Bouchard
Associate Professor Vining


This course includes activities, techniques, and services, as they are related to the organizing and administering of a school library. 2 lecture periods and one 2-hour laboratory period weekly; 3 semester hours credit.

Associate Professor Bouchard


This course includes cataloguing, classification, and processing of
library materials as they are related to the school library. 2 lecture periods and one 2-hour laboratory period weekly; 3 semester hours credit.

Associate Professor Bouchard
Associate Professor Vining

DIVISION OF THE SOCIAL SCIENCES

ECONOMICS

Associate Professor Daniel J. Noonan, Chairman; Instructor Douglas L. Reed.


In this course consideration will be given to the basic concepts, behavior, and institutions of a free enterprise economy. 3 periods weekly; 3 semester hours credit.

Staff


This course will provide an opportunity to analyze current domestic and international activities and problems in the economic sphere, with some examination of the differences in behavior between free and centralized economic systems. 3 periods weekly; 3 semester hours credit.

Staff

EC 400. Economic Principles and Problems.

This course offers a concentrated study of significant economic concepts, institutions, and problems of a free enterprise system. 3 periods weekly; 3 semester hours credit.

Staff

HISTORY AND POLITICAL SCIENCE

Professor Jordan D. Fiore, Chairman; Commonwealth Professor Annabelle M. Melville; Professors Ralph S. Bates, Jane Herrick, Stephanie O. Husek; Associate Professor William R. Cole, Jr.; Assistant Professors Gerald J. Doiron, Mary Noel, Maurice Rotstein, Benjamin A. Spence; Instructors Donald L. Keay, Arthur C. Olen.

The Department of History and Political Science has four objectives: 1) to make an effective contribution to the general education program by offering history courses to all students in the first two years; 2) to give adequate preparation for students planning to teach history on the secondary level; 3) to provide a breadth in history which will enable students to do graduate work
in the field of history; and 4) to offer enough advanced courses in history to students who are majoring in the elementary curriculum to enable them to enrich the program of teaching history at that level.

**HI 111. Western Civilization to 1715.**

This course surveys Western civilization from ancient times to 1715. Ancient peoples are considered in the light of their contributions to civilization. From the fall of Rome to the eighteenth century, emphasis is placed upon the following subjects: the rise of the Christian church; the Middle Ages, Christian and Feudal; the Byzantine World; the Moslem World; the Holy Roman Empire; the development of state systems and the struggles for power; the Renaissance; the Protestant and Catholic Reformations. 3 periods weekly; 3 semester hours credit.

**HI 221. United States History and Constitutions to 1865.**

The growth of the United States is examined from the discovery of America to the end of the Civil War. The following topics are studied: the age of exploration and discovery; the English colonial and provincial periods; the age of the American Revolution; the Constitutions of the United States and of the Commonwealth of Massachusetts; the early national period; Jeffersonian democracy; the age of Andrew Jackson; westward expansion, sectionalism, and slavery; the causes of and the course of the Civil War. 3 periods weekly; 3 semester hours credit.

**HI 112. Western Civilization since 1715.**

Beginning with the rise of parliamentary control in England and the old regime in France this course is concerned with: the rise of Prussia; the Westernization of Russia; the growth of science and the spread of industrialism; eighteenth and nineteenth century thought; the enlightenment; the age of revolutions; the new nationalism and imperialism of the nineteenth century; the two World Wars; internationalism and world organizations. Prerequisite: HI 111. 3 periods weekly; 3 semester hours credit.

**HI 222. United States History since 1865.**

This course continues the study begun in HI 221. The following topics are studied: reconstruction; problems of economic expansion from 1865 to 1900; financial and monetary problems; the United
States as a world power; the Progressive era; and political, military, and economic history of the twentieth century. 3 periods weekly; 3 semester hours credit.

Staff

HI 271. Introduction to Political Science.

This course provides a consideration of the definitions, theoretical foundations, and historical evolution of the principles of politics. The fundamental concepts in political science are examined: state, politics, law, and a general analysis of the place of government in modern society. 3 periods weekly; 3 semester hours credit.

Mr. Keay


The Constitution of the United States is studied in detail as the basis of the Federal System. Topics of study include the development of the democratic process in America, the organization, power, procedures, function, services, and finances of the United States government. 3 periods weekly; 3 semester hours credit.

Professor Melville

HI 313. Europe since 1870.

This course concerns itself with a study of the background and consequences of two world wars. Special attention is given to those factors significant in shaping the contemporary European scene. 3 periods weekly for 3 quarters; 4.5 semester hours credit.

Assistant Professor Rotstein

HI 315. Nineteenth Century Europe.

This course is primarily concerned with the political, social, and intellectual development in the principal countries of Europe from the rise of Napoleon to the end of the century. 3 periods weekly; 3 semester hours credit.

Professor Husek

HI 316. Twentieth Century Europe.

This course is concerned with the causes of World War I, the course of the war and its aftermath. Political and social development and economic and ideological trends between the wars will be studied. World War II and post-war international relations will be covered. 3 periods weekly; 3 semester hours credit.

Professor Husek
HI 317. British Political History since 1603.

This course concerns itself with the political development of England and the British empire from the accession of the Stuarts to the present day. Chronologically parallel to the survey of American history, the course stresses those factors which show the relationship of American-British development in modern times. Although primarily concerned with political factors, this survey does not exclude economic and social factors, particularly when the history of ideas is at issue. 3 periods weekly; 3 semester hours credit.

Professor Melville

HI 318. British Empire and Commonwealth.

The development of British imperial policy and colonial problems from the eighteenth century to the present will be covered. Emphasis will be placed upon British-Indian relations, British imperialism in Africa, and the development and aims of the commonwealth as an institution. 3 periods weekly; 3 semester hours credit.

Professor Melville

HI 331. Latin American History.

The early history of the American areas originally brought into the orbit of western civilization by the Spanish and Portuguese will be studied with emphasis on the culture and ideology. In the study of nationalism in Latin America, attention will be paid to the struggle of the modern Latin-American republics to attain political stability. 3 periods weekly for 3 quarters; 4.5 semester hours credit.

Professor Herrick

HI 333. Latin America: The Colonial Period.

This course is concerned with the development of Spanish and Portuguese civilization in Latin America in the period between the discovery of America and the successful revolts against Spain early in the nineteenth century. 3 periods weekly; 3 semester hours credit.

Professor Herrick

HI 334. Latin America: The National Period.

This course studies the Latin American countries from the time that they achieved independence to the present. Prerequisite: HI 333. 3 periods weekly; 3 semester hours credit.

Professor Herrick
HI 341. Ancient History.

This course is concerned with the prehistoric ages, the early civilizations, and the rise of Greece and Rome to the end of the fifth century. Some attention will be paid to the cultures, the economic, political and social institutions which were developed, and the significant contributions of these civilizations to world history. 3 periods weekly for 3 quarters; 4.5 semester hours credit.

Assistant Professor Noel

HI 343. Ancient World to 336 B.C.

A study of prehistoric times, the early civilizations, and Greece from the Bronze Age to the death of Alexander the Great will be offered. 3 periods weekly; 3 semester hours credit.

Assistant Professor Noel

HI 344. Roman History.

This course covers the history of Rome from ancient times to the reign of Justinian. Emphasis will be placed on the expansion of Rome from city to empire; the Hellenistic East; imperial administration and law; the origin and spread of Christianity; the decline of the Empire and the raids of the barbarians. 3 periods weekly; 3 semester hours credit.

Assistant Professor Noel

HI 353. Historiography.

This course is concerned with the development of historical writing; the interpretation of history as illustrated by major historians; the evaluation of historical writings through professional journals and the method of the book review. Membership in the course is limited to fifteen. Students are admitted with the consent of the Department Chairman and the Instructor. Students who complete this course are expected to elect HI 354. 3 periods weekly; 3 semester hours credit.

Professor Melville

HI 354. Study and Writing of History.

This course is concerned with the development of the techniques of historical research and the preparation of papers which require these techniques. Varieties, analysis, and evaluation of source material will be stressed. Prerequisite: HI 353 or its equivalent. Students are admitted with the consent of the Department Chairman and the Instructor. 3 periods weekly; 3 semester hours credit.

Professor Melville
HI 411. History of Russia.

This course provides a survey of the early period as background for the emergence of modern Russia. Emphasis is placed on the political, economic, social, and intellectual developments which resulted in the establishment of the Soviet state. An analysis of available evidence for a better understanding of the political structure and the domestic and foreign policies of the present regime is also offered. 3 periods weekly for 3 quarters; 4.5 semester hours credit.

Professor Husek

HI 413. Contemporary Affairs.

Current sociological, economic, political, military, and scientific events are studied in publications and by means of television and radio broadcasts. The course attempts also an evaluation of the impact of science on contemporary society. 3 periods weekly; 3 semester hours credit.

Professor Bates

HI 421. History of Massachusetts.

In this course the English background of the Pilgrims and Puritans, the Plymouth Colony and Massachusetts Bay settlements, Puritanism and the Massachusetts theocracy, Massachusetts in the Provincial Period, and the American Revolution will be studied. In addition to a consideration of political history, Massachusetts is studied in the national period in terms of constitutional development, population shifts, industrial growth, the effects of immigration, and the economic changes of the twentieth century. The organization of the state government and the constitution are also studied. Much use will be made of primary source materials in developing the course. 3 periods weekly; 3 semester hours credit.

Professor Fiore


This course is designed primarily for senior history majors who contemplate doing graduate work in the field. The student will be introduced to the standard source materials for each major period in United States history, and to the various interpretations of approaches to historical problems, and will be encouraged to do some independent research in assigned areas. Admission is with the consent of the Department Chairman. 3 periods weekly for 3 quarters; 4.5 semester hours credit.

Professor Fiore and Staff

HI 461. Far Eastern History.

This course deals primarily with the history of China and Japan
during the last century. Some consideration is also given to the problems of the Philippines, Indonesia, Southeast Asia, India, and Australia. 3 periods weekly for 3 quarters; 4.5 semester hours credit.

Professor Bates

HI 471. International Relations.

Following a consideration of the basic factors in international relations, the development of the western state system, and the principles of balance of power, nationalism, and imperialism, the course covers the establishment of international organization in modern times and the post-war regional organizations. Each student makes a study of the contemporary international problems of a country or region. 3 periods weekly for 3 quarters; 4.5 semester hours credit.

Professor Fiore

SOCIOMETRY

Assistant Professor Shirley M. Kolack, Chairman; Assistant Professor Clay L. Greene.

SO 280. An Introduction to Sociological Analysis.

A comparative study of group behavior which is basic to all societies, this course will give attention to all the major social institutions that comprise the social structure. Empirical studies of small, simple societies as well as material from large complex societies will be utilized. 3 periods weekly; 3 semester hours credit.

Staff

SO 301. Social Stratification.

The ranking system by which all societies evaluate their members will be studied comparatively. Special attention will be given to class, status, and minority groupings, occupational structure, and social mobility within the United States. Prerequisite: SO 280. 3 periods weekly; 3 semester hours credit.

Assistant Professor Kolack

SO 303. The Family.

This course will focus on a comparative study of family structure in various societies. Theories of family life will be explored. Special emphasis will be given to the modern American family--its functions, problems, and trends. Prerequisite: SO 280. 3 periods weekly; 3 semester hours credit.

Assistant Professor Greene
SO 306. Urban Communities.

The development of urban communities will be traced. Emphasis will be on the modern city, its ecology, its areas of conflict—minority groups, its social organization, community planning, and redevelopment. Prerequisite: SO 280. 3 periods weekly; 3 semester hours credit.

Assistant Professor Greene

SO 308. Introduction to Sociological Theory and Research Methods.

Current sociological theories will be studied and their application to scientific research will be evaluated. Students will have the opportunity to participate in a research project employing sociological theories, methods, and techniques. Prerequisite: SO 280. 3 periods weekly; 3 semester hours credit.

Assistant Professor Kolack

DIVISION OF THE HUMANITIES

ART

Associate Professor Doris E. Tebbetts, Chairman; Associate Professor Robert A. Daniel; Instructors Shirley A. Bump, Sidney L. Kasfir.

The primary purpose of the department is to provide all students with the insights and knowledge needed for understanding 1) the important role of the visual arts in any culture, 2) the involvement of the individual artist in the process of creation, 3) the various media and techniques used by the artist, and 4) esthetic criteria evolved from developing standards of taste.

A grade of C or above in AR 110 and AR 280 is required for continuation as an Art Minor. Education majors, minoring in Art, are required to take the following courses: AR 110; 213; 215; 383; 391; and an elective choice of 380 or 381. Liberal Arts majors, minoring in Art, are required to take the following courses: AR 280; 381, 382; 383; and 391.

AR 110. Introduction to Art.

This course serves as an introduction to the visual arts, with emphasis on painting, sculpture, and architecture. Stress is placed on the art object as a concrete visual phenomenon, approached through an analysis of esthetic principles. Also included is a discussion of style and its historical context. There will be assigned readings and museum visits. 3 periods weekly; 3 semester hours credit.

Staff
AR 120. Art in Physical Education.

This course is an introduction to creative activities and processes which are directly related to camp and recreational craft programs. Attention will be given to an understanding of esthetic elements which are basic to all art activity. Additional studio work and reading are required. 3 periods weekly; 2 semester hours credit.

Staff

AR 213. Crafts I.

This course offers direct experience with a wide variety of materials and processes, and instruction relative to the creative needs of children in the elementary grades. Additional studio work and reading are required. 3 periods weekly; 2 semester hours credit.

Staff

AR 214. Crafts II.

This course is a continuation of Crafts I, with emphasis on methods of teaching and adaptation of processes for teaching at the elementary grade level. 3 periods weekly; 2 semester hours credit.

Staff


This course aims to develop in the student an understanding of the value, need, and role of art expression in the child’s total development; the materials, processes, and tools used in art education; and the teaching procedures which meet children’s needs and foster creativity. 3 periods weekly; 3 semester hours credit.

Associate Professor Daniel

AR 280. Understanding the Arts.

The primary aim in this course is the development of a framework for visual understanding and enjoyment. The student is taught to apply an analytical technique to specific objects chosen for study. Attention is also focused on social, historical, and psychological factors which enter into the total fabric of art. There will be assigned readings and museum visits. 3 periods weekly; 3 semester hours credit.

Mrs. Kasfir

AR 380. Interior Design.

Traditional and contemporary styles in furniture and interior design
are studied in illustrated lectures and field trips. Problems in the selection and arrangement of home furnishings afford opportunity for the development of individual taste. Hours and credits to be arranged.

Associate Professor Tebbetts

AR 381, 382. Crafts.

This is a course in which the student may attain a high level of achievement by concentrating in one or two craft media. Prerequisite: AR 213, or permission of the Instructor. 4 periods weekly; 2 semester hours credit for each semester.

Staff

AR 383. Techniques of Drawing and Painting.

Experimenting with a variety of media such as charcoal, pastel, water color, gouache, and oil, the student may work with varied subject matter including portraits, landscapes, still life and the costumed figure. Evaluation will be based on the individual student's extent of growth during the course. 2 double periods weekly; 2 semester hours credit.

Associate Professor Daniel

AR 391. History of Art.

This course is designed to acquaint the student with the major historical developments in art. The phenomenon of style is examined in conjunction with its relation to the historical process. Techniques of stylistic analysis are employed in the study of objects chosen from museum collections. There will be assigned readings and museum work. Prerequisite: AR 110, AR 280, or permission of the Instructor. 3 periods weekly; 3 semester hours credit.

Mrs. Kasfir

ENGLISH

Associate Professor Harold G. Ridlon, Chairman; Professors George Green, Samuel N. Sheinfeld; Associate Professors Barbara A. Chellis, Joseph De Rocco, M. Frances Guerin, Virginia Joki; Assistant Professors Mary Jarvis, Katherine Lomax; Instructors Mary Ellen Cullinan, Arthur Dabilis, Harold De Lisle, Carol Maresca, James Nerney, Virginia Shields.

The program of study for English majors aims to give students an acquaintance with the history and background of English and American literature, an understanding of great literary works, and the ability to analyze, interpret, and appreciate what they read.
A grade of C or above in EN 101, 102 is a prerequisite for continuation as an English major. Students majoring in English should take the following courses: EN 200, or its equivalent in composition above the elementary level; 221; 300; 331 or 332 or 333; 341 or 342. At least three electives must be chosen to bring the total for the major to 24 credits (not including the general education requirements of 101, 102; 211, 212).

EN 101, 102, English Composition.

The major objectives of English Composition are to make the student aware of the possibilities of written expression, to instill in the student a sense of responsibility about the use of language, and to provide frequent directed practice in expository prose. In the first semester, the emphasis will be on the study of language and the improvement of writing skills; in the second semester, the emphasis will be on critical writing based on selected readings. Advanced placement is possible in this course. EN 101 is prerequisite to EN 102. 3 periods weekly; 3 semester hours credit for each semester.

Staff

EN 200. Advanced Composition.

Expository writing is taught through frequent practice, analysis of models, and criticism by instructor and students. 3 periods weekly; 3 semester hours credit.

Staff

EN 211, 212. Literary Classics of Western Civilization.

Classic literature of Western Civilization will be studied in relation to historical background, but with particular emphasis on literary values. Among the works to be read are Homer's Iliad, tragedies of Aeschylus, Sophocles, and Euripides, Dialogues of Plato, selections from the Bible, Vergil's Aeneid, Dante's Inferno, Chaucer's Canterbury Tales, Cervantes' Don Quixote, plays by Shakespeare, Moliere, Goethe, and Shaw, and one or more modern novels. 3 periods weekly; 3 semester hours credit for each semester.

Staff

EN 221, 222. Major English Writers.

This course will emphasize the major figures of English literature from Anglo-Saxon times to the modern period. Authors will be studied in relation to historical background but with particular stress on literary values. 3 periods weekly; 3 semester hours credit for each semester.

Professor Green
Assistant Professor Jarvis
Mr. De Lisle
EN 230. Creative Writing.

This course provides the opportunity for work of a highly individual and creative nature, in fiction, non-fiction, verse, or drama. Suitable models for various genres will be studied, and frequent conferences will be held. 3 periods weekly; 3 semester hours credit.

Professor Green
Associate Professor De Rocco

EN 280. Journalism.

Students will be helped to develop skills in copyediting and proofreading, with special emphasis given to objective news story writing. Some attention will be given to dramatic criticism and sports writing. The workshop approach will be used. 2 periods weekly; 2 semester hours credit.

Associate Professor Chellis

EN 300. The History and Structure of the English Language.

The changes in the structure of the English language from Anglo-Saxon to modern English will be studied with attention to pertinent historical background. There will be an introductory study of structural linguistics and generative grammar. 3 periods weekly; 3 semester hours credit.

Professor Sheinfeld

EN 320. Chaucer.

This course is an introduction to Chaucer’s life, times, and language. Although emphasis will be placed on the Canterbury Tales, other works will be examined less thoroughly. 3 periods weekly; 3 semester hours credit. Not offered in 1965-1966.

EN 330. Modern American Literature.

This course is designed to acquaint the student with the major literary trends in American writing of the twentieth century. The course focuses primarily on the novel, with examples from Dreiser, Hemingway, Fitzgerald, Lewis, Wilder, K. A. Porter, and Salinger. 3 periods weekly; 3 semester hours credit.

Professor Green

EN 331, 332. United States Literature through the Nineteenth Century.

In the first semester, the writings of the Puritans, Cooper, Brown, Poe, Emerson, Thoreau, Whitman, and Dickinson will be discussed; in the second semester, emphasis will be given to the novels and
tales of Hawthorne, Melville, Twain, and James. 3 periods weekly; 3 semester hours credit for each semester.

Associate Professor Chellis

EN 333. Major Writers of the Nineteenth Century in the United States.

In this course the writings of Poe, Emerson, Thoreau, Whitman, Hawthorne, Melville, Twain, and James will be discussed. Required of B.S, English majors. 3 periods weekly for 3 quarters; 4.5 semester hours credit.

Associate Professor Chellis

EN 340. Literature of the English Renaissance.

This course in the non-dramatic literature of the Age of Shakespeare will include the reading of works by such writers as Sidney, Spenser, Nashe, Marlowe, and Drayton. Although the emphasis will be on textual analysis, the historical, social, and cultural background of the period will also be examined. 3 periods weekly; 3 semester hours credit.

Associate Professor Ridlon

EN 341, 342. Shakespeare.

In this course selected plays of Shakespeare will be studied. In each quarter three plays, generally two tragedies and one comedy, will be read with attention to both language and thought. 3 periods weekly; 3 semester hours credit for each semester.

Professor Sheinfeld

EN 350. The Modern English Novel.

This course entails a selective survey of major contributors to the English novel from Joseph Conrad through the school of the "Angry Young Men." Major attention will be given to the analysis of specific texts. 3 periods weekly; 3 semester hours credit.

Professor Green

EN 352. Victorian Prose and Poetry.

The major emphasis will be placed upon the poetry of Tennyson, Browning, and Arnold, but the works of other 19th century poets such as Hopkins and Hardy will also be read and discussed. The essays of Carlyle, Arnold, Newman, Huxley, and others will also be studied. 3 periods weekly; 3 semester hours credit.

Mr. De Lisle
EN 353, 354. Modern Drama.

This course will consider the main forces in modern drama. Starting with Ibsen, students will read and discuss selected plays of leading dramatists of Europe and America. 3 periods weekly; 3 semester hours credit for each semester.

Associate Professor Guerin

EN 360. The Victorian Novel.

This course will concentrate on the major novelists of the 19th century: Dickens, Thackeray, Eliot, Meredith, and Hardy. Attention will be given to biographical and historical background. 3 periods weekly; 3 semester hours credit.

Professor Sheinfeld

EN 370. Seventeenth Century Literature.

This course is an introduction to the prose and poetry of the Seventeenth Century in England, exclusive of Milton. Such writers as Donne, Jonson, Bacon, Burton, Browne, and Dryden will be examined, and various persistent elements, such as the classical influence, will be explored. 3 periods weekly; 3 semester hours credit.

Associate Professor Ridlon


In this course the emphasis will be placed on the main poetical works of Milton: Paradise Lost, Paradise Regained, and Samson Agonistes. However, certain of the minor poetic works, as well as selected prose will be read also. Prerequisite: Permission of the instructor. 3 periods weekly; 3 semester hours credit.

Associate Professor Ridlon

EN 383. Modern Irish Literature.

This course will include Irish writing from 1890 to the present, with special emphasis on the works of Yeats, Synge, O'Casey, Joyce, O'Connor, and O'Faolain. 3 periods weekly; 3 semester hours credit.

Assistant Professor Gannon

EN 386. English Romantic Poets.

In this course the chief works of Wordsworth, Coleridge, Byron, Shelley, and Keats will be studied. Emphasis will be placed on textual analysis, but consideration will be given to historical background and to developments in philosophy and esthetic theory which
have a direct bearing on Romantic poetry. 3 periods weekly; 3 semester hours credit.

Associate Professor De Rocco

EN 390. Literary Criticism.

This course will serve as an introduction to the history of literary criticism from Aristotle to the present. Emphasis will be placed, however, on those persistent esthetic, psychological, social, and cultural patterns which have helped shape the literature of our own age. 3 periods weekly; 3 semester hours credit. Not offered in 1965-1966.

Associate Professor Chellis
Associate Professor De Rocco

EN 394. Modern Poetry.

This course covers the major British and American poets of the 20th century with particular emphasis on the works of Hopkins, Yeats, Robinson, Eliot, Auden, and Thomas. 3 periods weekly; 3 semester hours credit.

Associate Professor Joki

EN 395. Eighteenth Century Literature.

This course will concentrate on the writings of several major literary figures, such as Swift, Boswell, Johnson, Defoe, Fielding, and Richardson. 3 periods weekly; 3 semester hours credit. Not offered in 1965-1966.

Associate Professor Chellis

EN 400. Techniques of Literary Research.

This course offers training in research procedures, with special reference to the materials and methods of literary study and publication. Various critical approaches to literature will be examined, and some evaluation of scholarly procedure will be made. 3 periods weekly; 3 semester hours credit. Not offered in 1965-1966.

Associate Professor Ridlon

EN 492. Reading and Research.

This course offers the opportunity for independent study under the guidance of individual members of the department. To be considered for admission, one must be a senior of honor standing and must submit a general proposal for a topic or area of study. Credit arranged.

Staff
EN 495. Seminar.

The topics explored and the areas covered in this course will vary. The period examined in 1965-1966 will be the eighteenth century. In the first quarter, emphasis will be given to the rise of sentimentality in the drama; in the second quarter to two major eighteenth century texts: Swift's *Gulliver's Travels* and Boswell's *Life of Johnson*; in the third quarter, to the rise of the novel through the writings of Defoe, Fielding, and Richardson. 3 periods weekly for 3 quarters; 4.5 semester hours credit.

Associate Professor Chellis

MODERN FOREIGN LANGUAGES

Assistant Professor Robert C. Arruda, Chairman; Instructors Robert D. Dawley, Armand E. Desautels, Barbara M. George, Joseph M. Giannini, Lenore M. Padula.

The Modern Foreign Language Department offers to all A.B. students an opportunity to gain a practical working knowledge of one or more of three modern foreign languages by requiring them to take a total of two semesters, or their equivalent, beyond the elementary college level course.

The Department currently offers a French Major, with academic minors possible in French, German, or Spanish. The departmental major seeks to develop a fluent command of the four language skills, and a broad acquaintance with the salient characteristics of French literature and civilization.

A grade of C or above in LF 181, 182 is required for continuation as a French Major. This course does not count toward the 36 hours required for the major. French majors are required to take the following courses, in sequence, unless otherwise arranged with the Department Chairman: 201, 202; 281; 301, 302; 381; 382; 383, 384; and 401, 402. Those who intend to enter secondary level teaching are required to take ED 324, Teaching Modern Foreign Languages in the Secondary School. Language minors are required to take 18 semester hours, or their equivalent above the college elementary level. The sequence of such courses may be determined by consultation with the chairman of the department.

FRENCH

LF 101, 102. Elementary French.

This course offers an aural-oral approach to the grammar of the French language. Emphasis will be on the mastery of correct pronunciation and essential grammatical points to ensure basic oral and reading command of the language. 3 periods weekly; 3 semester hours credit for each semester.

Staff
LF 151, 152. Intermediate French.

This course is a continuation of Elementary French with stress on essential grammatical points, oral work, and reading knowledge of the language. An introduction to some aspects of French literature will also be included. 3 periods weekly; 3 semester hours credit for each semester.

Staff

LF 181, 182. Introduction to the Advanced Study of French.

A rapid and systematic review of French grammar along with more advanced study of the language, this course also includes advanced reading selections with emphasis on French culture. 3 periods weekly; 3 semester hours credit for each semester.

Staff


This course provides a study of the beginnings of the French language, of the important literary movements and their representative works, and of the outstanding authors in France from the Middle Ages to the present day. Primarily designed for French majors and minors, this course is nonetheless open to all qualified students. Prerequisite: LF 181, 182 or its equivalent. 3 periods weekly; 3 semester hours credit for each semester.

Mr. Dawley

LF 281. French Conversation and Civilization.

This course is designed to improve oral expression and pronunciation. Discussion topics on aspects of French Civilization will be assigned, with a view to building vocabulary and to making applications of structures learned. There will also be assigned readings in French Civilization. Prerequisite: LF 181, 182 or its equivalent. 3 periods weekly; 3 semester hours credit.

Mr. Desautels

LF 301, 302. Seventeenth Century French Literature.

The principal historical events and representative writers of France in the 17th century will be studied with the object of understanding Classicism as a literary movement. The course will deal with the ideas and works of this period from Malherbe through Madame de Maintenon. Prerequisite: LF 201, 202 or its equivalent. 3 periods weekly; 3 semester hours credit for each semester.

Assistant Professor Arruda
LF 381. French Linguistics and Phonetics.

In this course a linguistic approach to the study of the sounds of the French language is made with emphasis on a mastery of the elements of correct standard pronunciation. Prerequisite: LF 181, 182 or its equivalent. 3 periods weekly; 3 semester hours credit.

Mr. Dawley


This course will cover the 19th century through representative literary works and the principal literary movements of Romanticism. Prerequisite: 201, 202 and 301, 302 or their equivalents. 4 periods weekly for 3 quarters; 2 semester hours credit for LF 383; 4 semester hours credit for LF 384.

Miss Padula

LF 401, 402. Modern French Literature.

This course involves a study of modern French literature from the authors of "national energy" at the turn of the century, to those of the present day. Important literary movements will be discussed and typical works of well-known authors will be read for class work and individual reports. Particular attention will be given to Bourget, Gide, Apollinaire, Peguy, Claudel, Romain, Sartre, Camus, and others. Prerequisite: LF 383, 384. 4 periods weekly for 3 quarters; 2 semester hours credit for LF 401; 4 semester hours credit for LF 402.

Mr. Giannini

GERMAN

LG 101, 102. Elementary German.

This course offers an audio-lingual approach to the study of the German language. Emphasis will be on the mastery of correct pronunciation and of essential grammatical points to ensure a basic oral and reading command of the language. 3 periods weekly; 3 semester hours credit for each semester.

Staff

LG 151, 152. Intermediate German.

This course includes a systematic review of basic German grammar and pronunciation. Graded reading selections will accompany the review to develop and improve the students' reading and conversational knowledge of the language. An introduction to some aspects of German culture will also be included. 3 periods weekly; 3 semester hours credit for each semester.

Staff
LG 181, 182. Introduction to the Advanced Study of German.

This course includes a review of German grammar and systematic vocabulary building through reading and discussion of more advanced forms of German literature. The discussions will be conducted mostly in German. Required of all German minors. 3 periods weekly; 3 semester hours credit for each semester.

Staff

LG 201, 202. Survey of German Literature.

This course offers a study of the beginnings of the German language, of the important movements and their representative works, and of the outstanding authors in the German language from the Middle Ages to the present. Required of all German minors. Prerequisite: LG 181, 182 or its equivalent. 3 periods weekly; 3 semester hours credit for each semester.

Staff

LG 291, 292. Scientific German.

This course involves a systematic review of basic German grammar. The emphasis will be on vocabulary building for the reading of scientific material in German. Open to science majors as a substitute for LG 151, 152. 3 periods weekly; 3 semester hours credit.

Staff

SPANISH

LS 101, 102. Elementary Spanish.

An audio-lingual approach to the essentials of Spanish pronunciation, grammar, reading, and writing proficiency will be stressed. 3 periods weekly; 3 semester hours credit for each semester.

Staff

LS 151, 152. Intermediate Spanish.

A review of the important aspects of correct Spanish pronunciation will accompany the development of an oral and aural command of the language. Aspects of Hispanic culture will be introduced. 3 periods weekly; 3 semester hours credit for each semester.

Staff

LS 181, 182. Introduction to the Advanced Study of Spanish.

This course offers a more detailed study of important points of Spanish grammar with attention given to increasing vocabulary, to correcting pronunciation, and to improving audio-oral skills. More
advanced reading selections and continued presentation of cultural aspects will provide opportunity for acquaintance with the Hispanic world. 3 periods weekly; 3 semester hours credit for each semester.

Staff


This course involves a survey of Hispanic literature from earliest times to the present. Major literary movements, works, and authors will be stressed. Required of all Spanish minors. Prerequisite: LS 181, 182 or its equivalent, or permission of Department Chairman. 3 periods weekly; 3 semester hours credit for each semester.

Staff

MUSIC

Associate Professor Walter L. Mayo, Chairman; Assistant Professors Dorothy R. Ferry, Vincent H. Gannon, Marjorie E. Hayward.

MU 101, 102. Instrumental Theory and Practice.

This course includes fundamentals of musicianship, solfeggio, scales, intervals, triads, seventh chords, correlated rhythmic, melodic, and harmonic drill. Prerequisite: ability to play a musical instrument and permission of the Instructor. 1 class hour and one 2-hour rehearsal per week; 1 semester hour credit for each semester.

Assistant Professor Gannon

MU 110. Music Theory.

Included in this course are the fundamentals of music, its structure and components, sight singing, the methods of teaching vocal music by rote, and basic harmony. 3 periods weekly; 3 semester hours credit.

Associate Professor Mayo

Assistant Professor Gannon

MU 113. Sight Singing.

This course is designed for those Elementary Majors who have not had sufficient experience in syllabication and ear training to help them in this phase of teaching music on the elementary level. No credit. Hours to be arranged.

Staff

MU 120. Music in Physical Education.

This course is designed primarily for Physical Education Majors
and stresses the rhythmic content of music. Experiences include action songs, free rhythmic activity to instrumental music, the use of rhythm instruments, folk dances, and musical games. 2 periods weekly; 2 semester hours credit.

Associate Professor Mayo

**MU 310. Music Skills.**

This course includes adaptation of music fundamentals as applied to vocal, rhythmic, and creative teaching on the elementary level. Prerequisite: MU 110. 3 periods weekly; 3 semester hours credit.

Assistant Professor Ferry

**MU 320. History and Development of Music.**

Through the use of text-book and recordings, students are made aware of the various styles and forms of music from the baroque to the contemporary. This includes vocal and instrumental forms. The lives of the composers are studied in relation to their compositions. Emphasis is placed upon identifying their style through listening. 3 periods weekly; 3 semester hours credit.

Assistant Professor Hayward

**MU 321. Music of the Renaissance and Baroque Periods.**

The chronological development of forms and styles in both sacred and secular music from the Middle Ages through the Baroque will be given special emphasis. Compositions will be studied through recordings. Reading assignments in reference books and standard histories will be given. 3 periods weekly; 3 semester hours credit.

Assistant Professor Gannon

**MU 322. Music of the Classical and Romantic Periods.**

The music of Haydn, Mozart, and Beethoven of the Classical era will be studied, as well as that of Schubert through Wagner in the Romantic era. The lives of the composers as well as the literature of their music will be approached through lecture and specific reading assignments. The compositions will be studied through recordings. 3 periods weekly; 3 semester hours credit.

Assistant Professor Hayward

**MU 330. Basic Piano.**

This course includes fundamentals of instrumental technique, and concentrates on the ability to play simple accompaniments for vocal
music on the elementary level. 3 periods weekly; 3 semester hours credit.

Assistant Professor Ferry


Important changes in contemporary music will be studied. Major musical forms written since 1900 will be analyzed and critical evaluation made of compositions of this period. Biographical background and historical influences will form a part of the basis of study. This will be approached through the use of text-book and recordings. Prerequisite: MU 320. 3 periods weekly; 3 semester hours credit.

Assistant Professor Hayward

MU 400. Creative Activities in Elementary School Music.

Practical experience will be offered in the following areas: free and directed response to rhythm; use of percussion, melody, and harmony instruments; piano chording; creative listening and singing activities. Prerequisite: MU 310. 3 periods weekly; 3 semester hours credit.

Assistant Professor Ferry

MU 403. Contemporary Practices.

This course will offer a study of chromatic harmony and advanced modulation, atonality, polychordality, and analysis of compositions of the 20th century. 3 periods weekly; 3 semester hours credit.

Assistant Professor Gannon

MU 420. Vocal Ensemble Practices.

This course offers choral practices, including voice training, experience in part singing, dynamics used in vocal ensemble, and choral conducting. 3 periods weekly; 3 semester hours credit.

Assistant Professor Ferry

MU 430. Harmony and Solfeggio.

This course will include sight singing and ear training in all clefs; also construction of major and minor scales, triads and seventh chords in all positions; modulation, harmonic analysis, and keyboard drill. 3 periods weekly; 3 semester hours credit.

Assistant Professor Gannon

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Associate Professor Robert J. Barnett, Chairman; Assistant Professors Karen Du Bin, Willis Pitts, Jr.; Instructors Barbara A. Baird, Adrian S. Harris.

The Speech program is designed to help the student participate logically and creatively in the development, oral presentation, and exchange of ideas to meet personal, social, and professional needs.

The Speech and Drama Department has established minimum voice, articulation, and fluency standards that must be met before a student is allowed to do practice teaching.

OC 001. Speech Improvement.

This course is required of all students who do not meet the minimum speech requirements for entrance to the teacher-training program. It will be a laboratory experience offering students individual and group instruction. The student will be permitted to drop the course as soon as he meets the requirements. No credit; hours to be arranged.

Assistant Professor Pitts


In this course, ideas and values that are central to the total oral communication process are introduced on both the practical and theoretical level. The student is helped to become a responsive and effective participant in conversation, discussion, speech-making, interviewing, and other forms of oral expression. 2 periods weekly; 2 semester hours credit.

Staff


The purpose of this course is to train students in the intelligent and effective use of the basic tools of logic and reasoning. A thorough study of the forms and categories of argument and practice in the process of logical and purposeful thinking in everyday communication will be made. 3 periods weekly; 3 semester hours credit.

Miss Baird

OC 290. Speech Improvement in the Classroom.

This course is designed to help prospective teachers 1) identify children's speech and hearing problems, and understand the needs of these speech-handicapped children; 2) recognize opportunities in everyday classroom activities to provide help and guidance for these children; and 3) provide supplementary activities that stimulate
and improve children's speech. 3 periods weekly; 3 semester hours credit.

Assistant Professor Pitts

OC 320. Methods of Speech Instruction.

This course offers a practical approach to the analysis and evaluation of the problems, objectives, and organizational techniques necessary to successful speech instruction. Special emphasis will be given to the factors affecting the teaching of oral communication at all levels. 3 periods weekly; 3 semester hours credit.

Staff

OC 330. Creative Dramatics.

This course is designed to give training and methodology in developing the child's creative faculties through the use of dramatic play. Students will participate in classroom exercises, and work in laboratory sessions with children in order to put into practice the concepts of preparation and evaluation learned through class discussion and lecture. 3 periods weekly; 3 semester hours credit.

Associate Professor Barnett


This course will offer opportunity for the study and practice of various styles of presentation in the oral interpretation of prose and poetry. A detailed evaluation and analysis of that material which is suitable for preparation and delivery to the class will be made. This course is especially recommended for those students with a definite interest in literature and the humanities. Prerequisite: OC 200; 3 periods weekly; 3 semester hours credit.

Assistant Professor DuBin

OC 350. Public Speaking.

This course provides for intensive study, evaluation, and analysis of speech preparation with frequent presentations of various forms of public address. Attention will be given to speaking occasions, situations, audience analysis, and contemporary speakers and their speeches. Prerequisite: OC 200. 3 periods weekly; 3 semester hours credit.

Staff

OC 360. Group Discussion.

Through frequent practice and intensive study the student is trained in the principles and methods of communication as they apply to the
group situation. The functional aspects of group membership, discussion, debate, logic, and leadership will be given particular attention. Prerequisite: OC 200. 3 hours weekly; 3 semester hours credit.

Miss Baird

OC 380. Play Production.

This course is designed to treat the various aspects of school play production, ranging from classroom to all-school presentations on the elementary or high school level. It deals with such problems as selecting a play, casting, directing, lighting, costuming and designing, and building scenery. Practical work in the above activities will be required of all students. 3 periods weekly; 3 semester hours credit.

Associate Professor Barnett

OC 400. Oral Communication II.

In this course, specifically designed for seniors, the student is encouraged to assume leadership responsibilities in the development of both meaning and form in the logical and creative modes of oral expression. The student learns to handle the more complex areas of oral communication, i.e. role playing, creative dramatics, story telling, interpretative reading, choral speaking, and discussion. Required of all Physical Education Majors. Prerequisite: OC 200. 2 periods weekly; 2 semester hours credit.

Staff

DIVISION OF NATURAL SCIENCES AND MATHEMATICS

BIOLOGICAL SCIENCES

Professor Kenneth J. Howe, Chairman; Commonwealth Professor Frank J. Hilferty; Professors Elizabeth M. Cirino, Lawrence B. Mish, William J. Wall, Jr.; Associate Professor James R. Brennan; Assistant Professors Robert A. Coler, Walter A. Morin; Instructor Charles W. Howie, Jr.

The Department of Biological Sciences offers a broad, integrated major program in biology, designed to prepare students for teaching, research, and graduate work. For students majoring in fields related to biology, or interested in developing a better understanding of the life sciences, the Department offers an integrated series of courses in its minor program.

Biology majors who are matriculated for the degree of Bachelor of Science in Education (no longer available to incoming students) are required to complete satisfactorily the following courses: BI 110, 120, 281, 282, 283, 381, 393, 395, 397, 401, 405, 411.
Biology majors who are matriculated for the degree of Bachelor of Arts must satisfactorily complete the following courses: BI 110, 120, 281, 282, 283, 292, 381, 393, 395, 401, 405, 411.

Incoming students who elect to major in biology and who have had advanced training in biology will usually be permitted to enroll in courses beyond the 100 series if they meet departmental requirements for advanced placement.

Students in majors other than biology who elect to take a secondary concentration in biology must satisfactorily complete the following courses: BI 110, 120, 283, and a minimum of three elective courses. Selection of elective courses will be subject to the student’s meeting course prerequisites and obtaining the approval of each instructor concerned.

**BI 110. General Botany.**

This course is designed to acquaint students with the principles of plant structure and functions. Major groups of plants are considered and the following topics are given appropriate elementary treatment: photosynthesis, respiration, transpiration, growth, reproduction, heredity, evolution, disease, and ecology. 2 lecture periods and one 2-hour laboratory period weekly; 3 semester hours credit.

Professor Howe and Staff

**BI 120. General Zoology.**

An introduction to the principles of biology with special reference to zoological aspect, this course emphasizes the following topics: protoplasm and the cell, taxonomy, histology, parasitology, vertebrate and invertebrate anatomy and physiology, embryology, ecology, evolution, and a general survey of the animal kingdom. 2 lecture periods and one 2-hour laboratory period weekly; 3 semester hours credit.

Professor Wall and Staff

**BI 281. Invertebrate Zoology.**

The biology of invertebrates with emphasis on comparative morphology, taxonomy, physiology, natural history, and evolution and representatives of the principal classes of each phylum are studied. Prerequisite: BI 120. 2 lecture periods and one 2-hour laboratory period weekly; 3 semester hours credit.

Professor Wall

**BI 282. Comparative Chordate Anatomy.**

This course is a phylogenetic approach to the study of chordate gross anatomy supplemented by laboratory dissections of amphioxus,
sand shark, mud puppy, turtle, pigeon, and cat. Emphasis is placed on interpretation of morphological trends imposed on chordate systems by environmental stimuli. Prerequisite: BI 120. 2 lecture periods and one 2-hour laboratory period weekly; 3 semester hours credit.

Assistant Professor Coler

BI 283. Field Natural History.

The identification, classification, and natural history of local plants and animals, and techniques of collecting and preserving specimens are included in this course. Prerequisite: BI 110, 120. one 4-hour laboratory period weekly; 2 semester hours credit.

Professor Mish and Staff

BI 292. Plant Anatomy.

This course includes a study of structural features of extant vascular plants from ontogenetic and phylogenetic viewpoints, with special attention given to recent developments in comparative plant anatomy, references to nonvascular and extinct vascular plants, correlation of microscopic features with gross structure, the value of plant anatomy to other sciences and industry, and introductory microtechnique. Prerequisite: BI 110. 2 lecture periods and one 2-hour laboratory period weekly; 3 semester hours credit.

Mr. Howie

BI 300. Biochemistry.

This course is a study of the functions, chemical transformations, and attendant energy changes associated with basic biological phenomena. Prerequisite: BI 110, 120, CH 131. 3 lecture periods weekly; 3 semester hours credit. Not offered in 1966-1967.

Assistant Professor Coler

BI 381. Animal Physiology.

General physiological principles common to invertebrates and vertebrates are discussed with major emphasis given to: cellular organization, transport phenomena, cellular respiration, secretion, irritability, contraction, and integrative functions in animals. Prerequisite: BI 120, CH 131, or permission of the Instructor. 2 lecture periods and one 2-hour laboratory period weekly; 3 semester hours credit.

Assistant Professor Morin

BI 385. Mammalian Physiology.

Consideration is given to general physiological principles and their
application to physical education. Topics covered are the physiology of exercise, muscle movement, excitation, and hormonal control. Prerequisite: PH 252, PH 251, and BI 120. 2 lecture periods and one 2-hour laboratory period weekly; 3 semester hours credit.

Assistant Professor Morin

BI 392. Problems in Biology.

This course is designed for advanced students desiring individual instruction in the methods of general biological, botanical, or zoological investigation. Prerequisite: Permission of the Faculty of Biology. Credits and hours to be arranged.

Staff

BI 393. Genetics.

An intensive study is made of the basic principles of heredity and variation in plants and animals. Emphasis is placed on methods of problem solving and the historical background of the science. Prerequisite: BI 110, 120, or permission of the Instructor. 2 lecture periods and one 2-hour laboratory period weekly; 3 semester hours credit.

Associate Professor Brennan

BI 395. Microbiology.

This course provides an introduction to the cultivation, growth, and identification of micro-organisms significant to man. Special emphasis is directed toward laboratory techniques. Prerequisite: BI 110, CH 131, or permission of the Instructor. 2 lecture periods and one 2-hour laboratory period weekly; 3 semester hours credit.

Professor Mish

BI 397. Plant Physiology.

This course provides an introduction to the growth and function of plants, including cellular physiology, water relations, metabolism, respiration, photosynthesis, nutrition, and the influence of environment on the growth and development of higher plants. Prerequisite: BI 110, CH 131, or permission of the Instructor. 2 lecture periods and one 2-hour laboratory period weekly; 3 semester hours credit.

Professor Howe

BI 399. Elementary Microbiology.

This course is designed to give a broad perspective of the field of microbiology, with special emphasis given to applied aspects of the
field: industry, food, water, and disease. Prerequisite: BI 110, PH 251, 252. 2 lecture periods and one 2-hour laboratory period weekly; 3 semester hours credit.

Professor Mish

BI 401, 402. Seminar in Biology.

This seminar provides discussion of current problems and research in the biological sciences. Although primarily composed of the faculty and seniors of the Department of Biological Sciences, all interested members of the college faculty and qualified students are invited to participate. 1 period weekly; .5 semester hour credit for each semester.

Professor Wall and Staff

BI 405. Systematics and Evolution.

In this course consideration is given to contemporary taxonomic problems in the light of evolutionary phenomena. Emphasis is placed on such mechanisms of specialization as mutation, variation, hybridization, polyploidy, isolation, natural selection, and genetic drift. Prerequisite: Permission of the Instructor. 3 periods weekly; 3 semester hours credit.

Professor Hilferty
Professor Wall


This course provides an opportunity to study the interrelations of plants and animals with their environment—physical and biological. The dynamics and evolution of populations, communities, and ecosystems are emphasized. Students will become acquainted with the communities of Southeastern Massachusetts through field studies which make up a major portion of the laboratory requirement. Prerequisite: Permission of the Instructor. 2 lecture periods and one 2-hour laboratory period weekly; 3 semester hours credit.

Professor Cirino

BI 422. Radiation Biology.

This course provides a study of unstable isotopes and the types of radiation in the electromagnetic spectrum, with emphasis placed on their biological effects, use in the field of biology, and precautions necessary for utilization. Prerequisite: Permission of the Instructor. 2 lecture periods and one 2-hour laboratory period weekly; 3 semester hours credit. Not offered in 1966-1967.

Assistant Professor Morin

BI 427. Cytology.

A detailed study is made of cellular morphology and organization
including descriptions of major intracellular processes and functional significance of cellular structures. Prerequisite: BI 110, 120, or permission of the Instructor. 2 lecture periods and one 2-hour laboratory period weekly; 3 semester hours credit. Not offered in 1966-1967.

Associate Professor Brennan

BI 491, 492. Biological Science: BSCS Yellow Version I.

Selected subject material of importance to proper presentation of BSCS Yellow Version High School Biology is covered in detail. Lecture topics presented are animal physiology, general biochemistry, cytology, and plant physiology. Representative laboratory exercises are performed by the student in the following areas: cytology, animal physiology, and plant physiology. Prerequisite: permission of the Faculty of Biology. 2 lecture periods and one 2-hour laboratory period weekly; 3 semester hours credit for each semester.

Staff

BI 493, 494. Biological Science: BSCS Yellow Version II.

Selected subject material of importance to proper presentation of BSCS Yellow Version High School Biology is covered in detail. Lecture topics presented are evolution, ecology, genetics, and microbiology. Representative laboratory exercises are performed by the student in the following areas: ecology, genetics, and microbiology. Prerequisite: permission of the Faculty of Biology. 2 lecture periods and one 2-hour laboratory period weekly; 3 semester hours credit for each semester.

Staff

CHEMISTRY

Associate Professor Wilmon B. Chipman, Chairman; Assistant Professors Henry O. Daley, Jr., Margaret R. Souza; Instructor Joseph M. Pagano.

The Chemistry Department offers two programs leading to the Bachelor of Arts degree in chemistry. The first of these, the major in Professional Chemistry, meets the minimum standards of the American Chemical Society for undergraduate preparation in chemistry. This prepares the student for graduate school in chemistry or for a career in chemistry. A student in this program must minor in either mathematics or physics. Although this program is not designed to prepare high school teachers it does provide the necessary courses for certification in both chemistry and the minor fields of mathematics or physics; it does not provide the education requirements necessary for certification.
The second program allows the student who majors in chemistry to minor in the area of his choice. If the student minors in education, he will meet the Massachusetts State Certification requirements for teaching chemistry. Minors in biology or earth science might be quite appropriate for students interested in high school or junior high school science teaching. A minor in biology would prepare the student for medical or dental school. It is not necessary for the student to decide which of the two programs he will take until the second semester of his sophomore year.

The major in Professional Chemistry is required to take the following courses: CH 141, 142, 241, 242, 343, 344, 381, 382, 441, 444; and MA 101, 102, 201, 202; PH 243, 244, 387; LG 101, 102, 191, 192.

The major in Chemistry is required to take the following courses: CH 141, 142, 241, 242, 343, 344, 381, 382, 441; and MA 101, 102, 201; PH 243, 244, 387; LG 101, 102, 191, 192.

For both majors, CH 141, 142, MA 101, 102, and LG 101, 102 must be elected in the freshman year.

CH 131, 132. General Chemistry.

A study will be made of the elements and their compounds, with emphasis on structure and its relation to properties. Not open to Chemistry majors. Required of Biology and Math majors. CH 131 is prerequisite to CH 132. 2 lecture periods and 1 two-hour laboratory period weekly; 3 semester hours credit for each semester.

Assistant Professor Souza

CH 141, 142. Inorganic Chemistry with Qualitative Analysis.

Theoretical inorganic chemistry with emphasis on mass-energy relationships in terms of structure and physical laws. The second semester laboratory consists of semi-micro qualitative inorganic analysis. CH 141 is prerequisite to CH 142. 3 lecture periods and 1 three-hour laboratory period weekly; 4 semester hours credit for each semester.

Assistant Professor Daley

CH 200. Survey of Chemistry.

The fundamental laws of chemistry are studied together with their application to elements and compounds, reactions and properties. 2 lecture periods and 1 two-hour laboratory period weekly; 3 semester hours credit.

Staff
CH 241. Inorganic Quantitative Analysis.

A study will be made of the classical and modern methods for the volumetric and gravimetric determination of elements and groups. Prerequisite: CH 142 or permission of the Instructor. 3 lecture periods and 1 four-hour laboratory period weekly; 4 semester hours credit.

Mr. Pagano


Modern structural concepts of inorganic chemistry and descriptive inorganic chemistry are presented at an intermediate level. Prerequisite: CH 241 or permission of the Instructor. 3 periods weekly; 3 semester hours credit.

Mr. Pagano

CH 343, 344. Organic Chemistry.

A survey will be made of the chemistry of organic compounds from the points of view of synthesis, structure and reactions, including some study of the mechanisms of organic reactions. Prerequisite: CH 142, or CH 132 and permission of the Instructor, CH 343 is prerequisite to CH 344. 3 lecture periods and 1 four-hour laboratory period weekly; 4 semester hours credit for each semester.

Associate Professor Chipman

CH 381, 382. Physical Chemistry.

A study will be made of the laws governing the physical and chemical behavior of compounds. Prerequisite: CH 142, MA 202. CH 381 is prerequisite to CH 382. 3 lecture periods and 1 four-hour laboratory period weekly; 4 semester hours credit for each semester.

Assistant Professor Daley

CH 390. Research Problems in Chemistry.

Special projects for advanced students desiring individual instruction in the methods of chemical research. Prerequisite: permission of the department. Credit and hours to be arranged.

Staff


This course will include such selected topics in advanced organic chemistry as physical organic chemistry, mechanisms, alicyclic and heterocyclic chemistry or advanced synthetic methods. Prerequisite: CH 343, 344, and permission of the Instructor. 3 periods weekly; 3 semester hours credit.

Staff
CH 441. Qualitative Organic Analysis.

This course will review the reactions of organic compounds with emphasis on reactions of importance for classification and identification. Laboratory work involves the identification of both simple compounds and mixtures. Prerequisite: CH 344. 1 lecture period and 1 four-hour laboratory period weekly; 3 semester hours credit.

Staff

CH 442. Advanced Inorganic Chemistry.

Principles of inorganic chemistry are presented at an advanced level. Prerequisite: CH 381, and CH 382 (taken concurrently). 3 periods weekly; 3 semester hours credit.

Staff

CH 444. Instrumental Analysis.

Theory and practical application of instrumental methods are applied to chemical analysis. The course will include pH measurements, electrodeposition, potentiometry and spectroscopy. Prerequisite: CH 381, and CH 382 (taken concurrently). 2 lecture periods and 1 four-hour laboratory period weekly; 3 semester hours credit.

Staff

CH 461, 462. General Biochemistry.

A study will be made of the chemical components of living matter and the major processes of cellular metabolism. Prerequisite: CH 343, 344, and permission of the Instructor. 3 periods weekly; 3 semester hours credit for each semester.

Staff

CH 480. Special Topics in Physical Chemistry.

Topics of an advanced nature in physical chemistry will be selected, with an emphasis on recent developments in the field. (Possible topics: N.M.R., E.S.R., elementary Quantum mechanics, Statistical Thermodynamics). Prerequisite: CH 382, and permission of the Instructor. 3 periods weekly; 3 semester hours credit.

Assistant Professor Daley

EARTH SCIENCES

Associate Professor Emanuel Maier, Chairman; Associate Professors Ira E. Furlong, Agrippina A. Macewicz; Assistant Professors Robert Boutilier, Ralph S. Fellows; Instructors Marilyn A. Furlong, Franklin R. Stern; Visiting Lecturers in Oceanography
The Department of Earth Sciences offers two separate fields of concentration, one in Geography and one in the Earth Sciences. The program of study for Geography Majors is designed to give students a knowledge and appreciation of the physical and cultural attributes of the world in which they live. The concentration in Earth Sciences aims to introduce students to the various sciences that relate to the physical aspects of the earth and the universe.

A minimum of 24 semester hours in the Earth Sciences in addition to general education requirements (ES 181, 182, 181; 182, 192) must be taken by Geography Majors. A minimum of 21 or 22 semester hours in the Earth Sciences in addition to general education requirements (ES 181; 182, 192) must be taken by Earth Sciences Majors. Not more than one D for a three-credit course in the Earth Sciences shall be accepted to fulfill requirements for the major.

ES 181. Physical Geology.

This course involves a study of the constitution of the earth together with an evaluation of the processes acting on and within it. Field trips are an integral part of the course. This course may be followed by either ES 182 or ES 192 in the second semester. 2 lecture periods and 1 two-hour laboratory period weekly; 3 semester hours credit.

ES 182. Physical Geography.

In this course the characteristics, classification, origin, and distribution of the earth's physical phenomena such as atmosphere, climate, vegetation, and soils are studied as well as the distribution of populations. Emphasis is placed upon developing an understanding and appreciation of the relationships between the physical features of the earth and man. Field trips. Prerequisite: ES 181. 2 lecture periods and 1 two-hour laboratory period weekly; 3 semester hours credit.

ES 192. Historical Geology.

Historical Geology is a study of the major geological events on the earth as revealed by the structure and composition of the rocks and the evolution of the fossil record. Prerequisite: ES 181. 2 lecture periods and 1 two-hour laboratory period weekly; 3 semester hours credit.

In this introductory course the origin and distribution of patterns of natural features of earth environment are studied. This course is designed to help the student form a sound basis for understanding the relationship between the physical features of the earth and the cultural patterns of man. (For B.S. in Elementary Education students only.) Field trips. 2 lecture periods and 1 two-hour laboratory period weekly; 3 semester hours credit.

ES 252. Geography of Anglo-America.

In this course the fundamentals studied in ES 200 are applied in the analysis of geographic regions of Anglo-America. This course is designed to give familiarity with the methods of securing, organizing, and presenting geographical data. Prerequisite: ES 181, 182, or 200. 3 periods weekly; 3 semester hours credit.

ES 301. Astronomy.

The major concern of this course is a study of the earth, moon, planets, sun, and other stars and galaxies. Emphasis is placed on such topics as the new findings of radio astronomy and the uses of earth satellites. Day and evening observations. 3 periods weekly; 3 semester hours credit.

Professor Bates

ES 303. Meteorology I.

This is an introductory course in which atmospheric behavior, weather elements, and cyclonic phenomena such as hurricanes, tornadoes, and frontal circulations are analyzed. 3 periods weekly; 3 semester hours credit.

Assistant Professor Fellows

ES 304. Climatology.

A study will be made of climatic elements and climatic controls and their application to the analysis of climatic regions of the world. Prerequisite: ES 303. 3 periods weekly; 3 semester hours credit.

Assistant Professor Fellows

ES 305. Oceanography, bio-chemical.

This course will present a survey of marine biology and chemistry with emphasis on current research as well as past achievements in each field. 3 periods weekly; 3 semester hours credit.

Mr. McGill
ES 306. Oceanography, physical.

A study will be made of ocean water temperature, circulation, shore lines, ocean basins, and mineral resources. 3 periods weekly; 3 semester hours credit.

Mr. Chase

ES 311. Meteorology and Climatology.

The principles of meteorology, their application to weather and to the analysis of climatic regions of the world will be considered in this course. 3 periods weekly for 3 quarters; 4.5 semester hours credit.

Assistant Professor Fellows

ES 315. Cartography.

This course aims to train students in the graphic presentation of geographic data, and acquaint them in the latest techniques of map construction. 3 periods weekly; 3 semester hours credit.

Mr. Stern

ES 351. Geography of Eurasia.

This course is designed to give students an understanding and appreciation of the interrelationship among the various physical and cultural patterns of Europe and selected areas in Asia. Prerequisite: ES 181, 182, or 200. 3 periods weekly for 3 quarters; 4.5 semester hours credit.

Associate Professor Macewicz

ES 352. Urban Geography.

The geographic aspects of the city, including location, function, land use patterns, and tributary areas, will be analyzed. Prerequisite: ES 181, 182, or 200. 3 periods weekly; 3 semester hours credit. Not offered in 1966-1967.

ES 358. Geography of Latin America.

In this course physical and cultural patterns of selected countries of South America are analyzed. Emphasis is placed on current economic and political problems. Prerequisite: ES 181, 182, or 200. 3 periods weekly; 3 semester hours credit.

Associate Professor Maier

ES 361. Geography of World Problems.

World-wide phenomena and problems are considered in this course
from the geographer’s point of view, problems such as population densities and distribution, balanced land use and its philosophic, esthetic, and scientific basis, the circulation of goods and people, and a comparison of levels of development. 3 periods weekly for 3 quarters; 4.5 semester hours credit.

Mrs. Furlong

ES 362. Economic Geography.

In this course the mineral, plant, and soil resources of the world are studied with emphasis on their location and present and potential uses. Manufacturing regions and the transportation systems that link the various regions of the world are also considered. Prerequisite: ES 181, 182, or 200, or permission of instructor. 3 periods weekly; 3 semester hours credit.

Mrs. Furlong

ES 372. Mineralogy.

This course will present an introduction to crystallography followed by the determinative and physical mineralogy of important rocks and ore minerals. Prerequisite: A knowledge of chemistry. 2 lecture periods and 2 two-hour laboratory periods weekly; 4 semester hours credit.

Assistant Professor Boutilier

ES 405. Synoptic Meteorology.

This is a course in investigation of world and local air systems, air masses, and fronts. Weather maps, upper air charts, and basic forecasting techniques will be considered. Prerequisite: ES 303. 2 lecture periods and 1 two-hour laboratory period weekly; 3 semester hours credit. Not offered in 1966-1967.

ES 407. Air-Photo Interpretation.

A study will be made of the physical and cultural patterns on the earth’s surface and their recognition on air photographs. 1 lecture period and 2 two-hour laboratory periods weekly; 3 semester hours credit. Not offered in 1966-1967.

ES 411. Physical and Historical Geology.

Topics covered will be the origin, structure, and history of the earth as revealed by its minerals, rocks, and fossils. 2 lecture periods and 1 two-hour laboratory period weekly for 3 quarters; 4.5 semester hours credit.

Staff

ES 451. Geography of Europe.

This course is designed to give students an understanding and appre-
ciation of the interrelationships among the various physical and cultural patterns of Europe. Prerequisite: ES 181, 182, or 200. 3 periods weekly; 3 semester hours credit.

Associate Professor Macewicz

ES 452. Geography of Asia.

In this course the physical and cultural patterns of selected countries of Asia are analyzed. Prerequisite: ES 181, 182, or 200. 3 periods weekly; 3 semester hours credit.

Associate Professor Macewicz

ES 458. Geography of Latin America.

In this course several countries of Latin America are selected and their physical and cultural patterns are analyzed. Emphasis is placed on current economic and political problems. Prerequisite: ES 181, 182, or 200. 3 periods weekly for one quarter; 1.5 semester hours credit.

Associate Professor Maier

ES 461. Geography of Africa.

The physical and cultural features of the African continent with special references to the emerging political and regional patterns are studied. 3 periods weekly; 3 semester hours credit. Not offered in 1966-1967.


Each of the physiographic provinces of North America will be studied in terms of their geomorphology and structural relationships. Prerequisite: ES 181. 3 periods weekly; 3 semester hours credit. Not offered in 1966-1967.

ES 463. Petrology.

This course is designed to help students develop skills involving rock classification and identification by both hand specimen and thin section techniques. Prerequisite: ES 181. 1 lecture period and 2 two-hour laboratory periods weekly; 3 semester hours credit.

Assistant Professor Boutilier

ES 464. Economic Geology.

This course considers the geochemical and physical processes that produce metallic and non-metallic mineral deposits. Prerequisite: ES 181. 3 periods weekly; 3 semester hours credit. Not offered in 1966-1967.
ES 466. Glacial Geology.

This course presents a detailed study of the mechanics of glacial origin and movement, and the features produced by glacial erosion and deposition. Emphasis will be placed on the Pleistocene Epoch in North America. Prerequisite: ES 181. 2 lecture periods and 1 two-hour laboratory period weekly; 3 semester hours credit. Not offered in 1966-1967.

ES 471. Seminar.

This course presents the historical development of the field of geography. Emphasis is placed on the development of an understanding and appreciation of the tools, techniques, and methods used in research in geography. The preparation of a research paper on a problem selected from one of the subdivisions of the field is required. 2 periods weekly for 3 quarters, or 3 periods weekly for one semester; 3 semester hours credit.

Associate Professor Macewicz

ES 473. Political Geography.

A study will be made of the variation of politically organized areas and their relationship to each other. Prerequisite: ES 181, 182, or 200, or permission of Instructor. 3 periods weekly; 3 semester hours credit.

Associate Professor Maier

ES 475. Paleontology.

Topics covered will be a survey of the fossil record introduction to invertebrate and vertebrate paleontology and paleobotany. Emphasis will be placed on the most important phyla. Prerequisite: ES 181, 192. 2 lecture periods and 1 two-hour laboratory period weekly; 3 semester hours credit. Not offered in 1966-1967.

ES 483. Structural Geology.

This course consists of a study of the architecture of the earth as related to rock structures, their origin, and description. Prerequisite: ES 181. 2 lecture periods and 1 two-hour laboratory period weekly; 3 semester hours credit. Not offered in 1966-1967.

ES 484. Geomorphology.

Emphasis will be placed on a study of the relationships between gradational and tectonic forces and the resulting surface configuration of the earth. Prerequisites: ES 181, 182. 3 periods weekly; 3 semester hours credit.

Associate Professor Furlong
Since mathematics is both a cultural and technical field of study, the curriculum is planned with the following objectives: 1) to give the student an introduction to mathematics as an important area of human thought; 2) to give adequate preparation for students planning to teach mathematics on the secondary level; 3) to serve the needs of students in fields which rely on mathematics, e.g., experimental sciences, social sciences, and elementary education; 4) to give preparation to students for graduate study in mathematics and related fields.

Mathematics majors who are enrolled in the program leading to the degree of Bachelor of Arts must satisfactorily complete the following courses: MA 101, 102, 201, 202, 301, 302, 303, 304, 401, 402, 403, 404. Mathematics majors enrolled in the Bachelor of Science in Education program (no longer available to incoming students) must satisfactorily complete the following courses: MA 101, 102, 201, 202, 301, 302, 303, 401, 402, 403, 404. A grade of C or above in MA 102 is required for continuation as a mathematics major.

A concentration in mathematics for students majoring in Elementary Education is comprised of MA 311, 412, 313 or 414.

MA 101, 102. Calculus with Analytic Geometry I–II.

Inequalities, functions and their graphs, the line and linear inequalities, limits and continuity, differentiation of algebraic functions and applications. The definite integral and applications, analytic geometry of the conic sections, the trigonometric and exponential functions, parametric equations and polar coordinates, calculus of vectors in a plane. Required of all Freshmen who are candidates for a degree in Mathematics, Physics, or Chemistry. This course is also open to other qualified freshmen with consent of the Department Chairman. 4 periods weekly; 4 semester hours credit for each semester.

Assistant Professor Bent
Assistant Professor Lemos

MA 103, 104. Mathematical Analysis I–II.

Sets, algebraic functions and their graphs, topics from algebra, trigonometric functions and analytic trigonometry, logarithmic and
exponential functions, analytic geometry of the line and conic sections, differentiation and integration of algebraic functions and their applications. Required of all Freshmen who intend to major in Biology or Earth Science. 3 periods weekly; 3 semester hours credit for each semester.

Mr. Carr

MA 105, 106. College Mathematics I–II.

The real number system, algebra of polynomials and algebraic fractions, exponents and radicals, sets and equations, inequalities, functions and their graphs, polynomial functions, exponential and logarithmic functions, trigonometric functions and analytic trigonometry, analytic geometry of the line and conic sections, introduction to calculus. This course will generally be taken by all freshmen who do not intend to major in any of the sciences. 3 periods weekly; 3 semester hours credit for each semester.

Staff

MA 107, 108. College Mathematics for Elementary Majors I–II.

Theory of sets, relations and their properties, systems of numeration, axiomatic approach to the real number system through a study of the integers and rational numbers, elementary number theory, non-metric geometry. Required of all Freshmen who are candidates for a degree in Elementary Education. 3 periods weekly; 3 semester hours credit for each semester.

Associate Professor Mailloux
Mr. Gleason

MA 110. Elementary Statistics.

The nature of statistics, frequency distributions, descriptive measures, elementary probability, theoretical distributions of random variables, the binomial distribution, the normal distribution, statistical inference, regression and correlation, analysis of variance. Required of all Freshmen who are candidates for a degree in Health and Physical Education. 3 periods weekly; 3 semester hours credit.

Mr. Gleason

MA 201. Calculus with Analytic Geometry III.

Methods of integration and applications, solid analytic geometry, calculus of vectors in space, elements of infinite series, partial differentiation, multiple integration. Prerequisite: MA 101, 102. 4 periods weekly; 4 semester hours credit.

Assistant Professor Bent
Assistant Professor Lemos

Ordinary differential equations of first and second order, linear differential equations with constant coefficients, the Laplace transform, applications. Prerequisite: MA 101, 102, 201. 3 periods weekly; 3 semester hours credit.

Assistant Professor Bent
Assistant Professor Lemos

MA 301. Abstract Algebra.

Introduction to the theory of rings, integral domains and fields through a study of integers, rational numbers, real numbers, complex numbers and polynomials; elementary group theory. 3 periods weekly; 3 semester hours credit.

Associate Professor Chiccarelli

MA 302. Linear Algebra.

Vector spaces, determinants, linear transformations and matrices, systems of equations, characteristic values, quadratic forms, applications to geometry and analysis. 3 periods weekly; 3 semester hours credit.

Associate Professor Chiccarelli

MA 303. Number Theory.

Development of the number system, the Euclidean Algorithm and its consequences, theory of congruences, number-theoretic functions, Diophantine equations, quadratic residues. 3 periods weekly; 3 semester hours credit.

Associate Professor Chiccarelli


Axiomatic systems, finite geometries, introduction to synthetic and analytic projective geometry, affine geometry, non-Euclidean geometry. 3 periods weekly; 3 semester hours credit.

Associate Professor Chiccarelli

MA 311. College Algebra for Elementary Majors

Elementary logic, the real and complex number systems, algebra of polynomials and algebraic fractions, exponents and radicals, inequalities, functions and their graphs, polynomial functions. Prerequisite: MA 107,108. 3 periods weekly; 3 semester hours credit.

Mr. Gleason
MA 313. Geometry for Elementary Majors.

Plane geometric figures, curves and surfaces, congruence, measures, parallelism and similarity, non-Euclidean geometries, coordinate geometry. 3 periods weekly; 3 semester hours credit.

Mr. Gleason

MA 401. Advanced Calculus.

Fundamental theorems on limits and continuity, properties of derivatives, functions of several variables, partial derivatives, multiple integrals, sequences and series, vector calculus. Prerequisite: MA 101, 102, 201, 202. 3 periods weekly; 3 semester hours credit.

Assistant Professor Bent


A critical study of the definitions, axioms, structure, and development of mathematics, including an introduction to the theory of sets, the axiom of choice, cardinal and ordinal numbers. 4 periods weekly for 1 quarter; 2 semester hours credit.

Assistant Professor Bent

MA 403. Probability and Statistics.

Calculus of probabilities, discrete and continuous random variables, expectation, elementary probability distributions, methods of estimation, sample spaces, theories of statistical inference, applications. Prerequisite: MA 101, 102 or 103, 104 or 105, 106. 3 periods weekly; 3 semester hours credit.

Assistant Professor Lemos

MA 404. Mathematics Seminar.

One of the following will be chosen according to the needs or interests of the students. Topology: Topologies and topological spaces, functions, mappings and homeomorphisms, connected spaces, compact spaces and metric spaces. Complex Analysis: The theory of functions of a complex variable, analytic functions, Cauchy-Riemann conditions, integration, Cauchy's theorem and formulae. Numerical Analysis: Basic concepts of numerical methods, including finite differences, interpolation, numerical differentiation and integration. 4 periods weekly for 1 quarter; 2 semester hours credit.

Staff
MA 412. Analytic Geometry for Elementary Majors.

Trigonometric functions and analytic trigonometry, analytic geometry of the straight line and conic sections. Prerequisite: MA 311. 3 periods weekly; 3 semester hours credit.

MA 414. Calculus for Elementary Majors.

Graphs and curves, differentiation and integration of algebraic and transcendental functions, applications. Prerequisite: MA 412. 3 periods weekly; 3 semester hours credit.

PHYSICS

Associate Professor Wilmon B. Chipman, Acting Chairman; Professor Otis E. Alley; Associate Professor George A. Weygand; Assistant Professors Raymond L. Blanchard, John W. Swardstrom; Instructor Orville J. Dalton.

The Physics Department offers a program leading to the degree of Bachelor of Arts in Physics. This program prepares the student for graduate school, for a career in industry or government, or for the teaching of Physics in high school. If a student minors in Education he will meet the Massachusetts State Certification requirements for teaching Physics. One three-credit mathematics course as an elective will allow the student to meet the Massachusetts State Certification requirements for teaching Mathematics. It is strongly recommended that students interested in majoring in Physics audit PH 181, 182 (Elements of Physics) in their freshman year. A physics major must take MA 101, 102 and CH 141, 142 in his freshman year.

The following courses are required for a major in physics: PH 243, 244, 381, 382, 385, 386, 387, 388, 389, and CH 141, 142, MA 101, 102, 201, 202.

PH 181, 182. Elements of Physics.

This course includes a study of mechanics, heat, sound, electricity, magnetism and light. Required of biology majors. May not be used as credit toward a major in physics. PH 181 is prerequisite to PH 182. 2 lecture periods and 1 two-hour laboratory period weekly; 3 semester hours credit for each semester.

PH 200. Survey of Physics.

The fundamental laws of physics are studied as an integrated system. 2 lecture periods and 1 two-hour laboratory period weekly. 3 semester hours credit.
PH 243, 244. General Physics.

A calculus-based study of the phenomena of mechanics, heat, sound, electricity, magnetism, and light. Prerequisite: MA 102; MA 201, 202 (concurrently). Ph 243 is prerequisite to PH 244. 3 lecture periods and 1 three-hour laboratory period weekly; 4 semester hours credit for each semester.

Associate Professor Weygand

PH 251, 252. Introductory Physical Science.

The principles of physical science with emphasis on applications to physical education. Required of Physical Education Majors. Not open to other majors. 2 lecture periods and 1 two-hour laboratory period weekly; 3 semester hours credit for each semester.

Professor Alley

PH 381, 382. Physical Chemistry.

The laws governing the physical and chemical behavior of compounds. Prerequisite: CH 142, MA 202, or permission of the Instructor. PH 381 is prerequisite to PH 382. 3 lecture periods and 1 four-hour laboratory period weekly; 4 semester hours credit for each semester.

Assistant Professor Daley

PH 385. Optics.

After careful study of geometric optics, the student will be introduced to the wave theory of interference, diffraction, polarization, and double refraction, and to the propagation of light in dispersion media. Laboratory projects are included as a part of this course. Prerequisite: PH 243, 244. 3 periods weekly; 3 semester hours credit.

Professor Alley

PH 386. Nucleonics.

A study of nuclear instrumentation, the fission process and its applications, nuclear reactors, radiation shielding, radioactive waste disposal, and the application of nuclear technology to specific areas of the physical sciences. Prerequisite: PH 243, 244. 3 lecture periods and 2 three-hour laboratory periods weekly for one quarter; 3 semester hours credit. Not offered in 1966-1967.

PH 387. Modern Physics.

Atomic and nuclear structure, elementary particles, kinetic theory, relativity, quantum theory, introduction to quantum mechanics, and
nuclear theory. Prerequisite: PH 243, 244. 3 periods weekly; 3 semester hours credit.

Assistant Professor Swardstrom

PH 388. Electricity and Magnetism.

Electrostatic and magnetic theory, direct and alternating current circuits, introduction to Maxwell’s equations and radiation. Prerequisite: PH 243, 244, MA 201. 3 lecture periods and 1 three-hour laboratory period weekly; 4 semester hours credit.

Assistant Professor Blanchard


Laboratory projects will be included as a part of this course, which introduces the student to a vector treatment of mechanics: forces and moments; kinematics and dynamics of point masses and of rigid bodies; work, kinetic energy and potential energy; impulse and momentum; and mechanical vibrations. Prerequisite: PH 243, 244. 3 periods weekly; 3 semester hours credit.

Assistant Professor Blanchard


This course provides the opportunity for advanced students to investigate individual topics not usually covered in the required curriculum. Prerequisite: permission of the department. Credit and hours to be arranged.

Staff


A discussion of modern ideas of the solid state as they apply to rheology, energy absorption and electrical and electromagnetic transmission. Prerequisite: PH 243, 244. 3 periods weekly; 3 semester hours credit. Not offered in 1966-1967.

PH 392. Electronics.

Fundamentals of semiconductor and vacuum tube electronics will be presented and supported with physical principles. Laboratory experiments will provide a working understanding of electronic measurements and basic electronic circuits. Prerequisite: PH 243, 244. 3 lecture periods and 2 three-hour laboratory periods weekly for one quarter; 3 semester hours credit.

Assistant Professor Swardstrom
PH 393. Atomic Physics.

History of atomism, introduction to the atomic nucleus, energy levels, basic wave theory, relativity, quantum theory and the duality of waves and particles are treated on an advanced level. Prerequisite: PH 243, 244. 3 periods weekly; 3 semester hours credit. Not offered in 1966-1967.

PH 395. History of Science.

The development of scientific thought and scientific method from the Ionian Greeks to the contemporary era. Prerequisite: 12 semester hours of science. 3 periods weekly; 3 semester hours credit. Staff

PH 396. Philosophy of Science.

An extended discussion of the philosophical systems applied to the physical sciences. Emphasis will be on the epistemological and metaphysical considerations of the problems of contemporary physical science. Prerequisite: PH 395 and 3 semester hours of Philosophy. 3 periods weekly; 3 semester hours credit. Not offered in 1966-1967 Staff

PH 491, 492. Physics Seminar.

Discussions will be conducted on current problems and research in physics. Prerequisite: permission of the department. 1 period weekly; 5 semester hour credit for each semester. Staff
STUDENT SERVICES

Students have problems and needs that often require special forms of help or personal guidance at different stages of college experience. Among these are questions and concerns about one’s educational program and academic achievement, housing, finances, health, social adjustment, part-time work, and post-college study or employment.

To assist students in making adjustments, wise decisions, and intelligent plans, the College has provided professional staff services in the major areas of student needs.

ORIENTATION

During registration week, the orientation of students new to Bridgewater State College begins. Students are then advised on their academic program, and given opportunities to meet each other and the faculty, to learn about the philosophy and resources of the College, and about the standards, requirements, policies, and traditions of the College. The program includes assemblies, discussion meetings, activities of various kinds, and get-togethers in informal settings, planned and carried out by committees composed of students, faculty, and administrative staff.

An orientation course for all freshmen is required with class meetings once a week throughout the college year.

GENERAL COUNSELING

The faculty–student relationship is the center of college counseling, for it is the faculty who are best qualified to guide the student in his academic and professional growth. Each freshman is assigned to a faculty advisor. Additional guidance by a professional counselor may be arranged through the office of the Dean of Students.

ACADEMIC COUNSELING

The Faculty Committee on Academic Standing also offers counseling services. It interviews students whose academic standing is unsatisfactory at the end of each semester to determine the probability of success if the student is allowed to continue. To those students dismissed for academic reasons the Committee frequently offers other suggestions.

RELIGIOUS COUNSELING

From its beginning Bridgewater State College has been committed to a positive appreciation for the religious values in both our history and contemporary culture. To emphasize the affirmative role of religion in the life and thought of this academic community
the Christian Fellowship, Menorah Club, and Newman Club have been formed to minister to those of the Protestant, Jewish, and Catholic faiths. A Christian Fellowship House and a Newman Chapel and Center are located near the campus. Two chaplains for Catholic and Protestant students have offices on campus and meet frequently with students in individual conferences and in groups to provide additional counseling services.

CULTURAL AND SOCIAL EVENTS

The opportunities provided for cultural and social experiences, through formal and informal group activities, include musicales, art exhibits, international displays, forums, socials, informal dances and formal balls, coffee hours with staff and faculty, and residence hall functions. The Assembly Committee of the Student Cooperative Association sponsors a program series each year. Student, faculty, administrative, and alumni groups also sponsor lectures, forums, and discussion groups throughout the year.

PHYSICAL EDUCATION AND RECREATION

The physical education and recreational program of the college provides a wide range of activity for students. Objectives of the program are to promote qualities of leadership and sportsmanship; to aid students in their emotional, physical, and social development; and to provide opportunities for the development of individual physical skills. Programs of intramural sports for men are conducted in badminton, basketball, softball, tennis, touch football, track and field, and swimming. Recreational and intramural activities for women include badminton, basketball, bowling, dancing, field hockey, golf, lacrosse, riding, and swimming. Varsity teams in lacrosse and field hockey compete with teams from other women's colleges in eastern New England.

ATHLETICS

Intercollegiate athletics play an important part in the College's educational objectives. Sports are vital and beneficial activities, creating proper balance between mental and physical training, providing relaxation and enjoyment for student participants and student spectators, developing a spirit of unity and high morale in the student body, and encouraging cooperative group relationships. Bridgewater participates in intercollegiate football, basketball, baseball, tennis, track, and golf.

HEALTH SERVICE

A hospital suite is located on the first floor of the S. Elizabeth Pope Hall. The services of a day and a night nurse are available to all students of the college. A doctor is on duty two days a week for six hours each day.
PLACEMENT SERVICE

The Placement Service assists in referring seniors to employers for full-time job opportunities, and in placing alumni in their major fields of concentration. In addition, on-campus interviews are arranged for students in their senior year. These services are available without charge to all students and alumni who register at the Placement Office.

STUDENT EMPLOYMENT

Opportunities for part-time employment are available for students who wish to earn money while studying at the college. Applications should be made to the Dean of Women or the Dean of Men. Assignments are made in accordance with the needs, abilities, and interests of the students. Many students may find opportunities for part-time employment under the Economic Opportunity Act.

STUDENT LIFE

Student life at Bridgewater State College is a composite of a variety of activities and organizations meeting a wide range of student needs and interests and adding enjoyment and meaning to living and learning experiences. Through out-of-class participation in intellectual, social, religious, cultural, and recreational functions, students develop understandings and skills that enrich and extend classroom learnings and form an integral part of the college program. In sharing membership and leadership roles in these activities and organizations, they find opportunities to gain competencies that have direct application to class assignments, to their professional training, and to community situations.

Since Bridgewater State College believes that student participation in campus life is an important part of the educational process, it encourages student government at various levels and in all student activities. The STUDENT CO-OPERATIVE ASSOCIATION STUDENT COUNCIL aims to involve the student in a responsible way in the life of the college community, to serve as the means for the free expression of student opinion regarding college affairs as well as local, national, and international issues relevant to the student-citizen, and to unite the student community through helping students feel a part of the educational process.

STUDENT CO-OPERATIVE ASSOCIATION

This organization, through elected representatives, serves as the voice of student opinion and the body of student action. Annual dues support the student government and its activities. With payment of these dues, students are admitted to all athletic events free of charge. The work of the entire association with its many committees is guided by the Student Council.
STUDENT COUNCIL

This is composed of the officers of the SCA together with the class presidents and three elected delegates-at-large from each class. It aids in regulating all matters pertaining to student life which do not fall under the jurisdiction of the faculty, in fostering the spirit of unity and co-operation among the students, and in maintaining the high standards of Bridgewater State College. This group aims to initiate the best movements of student collegiate life on the campus, and to improve and broaden life in the college by making available to the student the best that is possible in cultural and educational achievement.

The committees of the SCA in conjunction with the Student Council are:

Finance Committee

The function of this committee is to receive the budgets of the organizations requesting funds from the S.C.A, and to recommend the final appropriation for that organization.

Assembly Committee

The function of this committee is to bring to the college speakers, outstanding in their particular fields, who will contribute to the cultural growth of the students.

Dining Hall Committee

This committee makes and enforces rules governing dining hall etiquette.

Elections Committee

This committee assists freshmen conducting their meetings, taking charge of their elections, and planning their class party. For the rest of the year its duties are to plan the order of and direct the elections of student officers.

Handbook Committee

The chief duty of this group is to prepare and publish a handbook containing information on rules, customs, and traditions of the college.

Library Committee

This committee assists in the maintenance of an efficient library system to meet the needs of a rapidly expanding college. It also collects fines and assessments which are used only for the upkeep and repair of books.
Public Relations Committee

This committee works with the Audio-Visual Department of the college in promoting good will between the college and the communities it serves.

Social Activities Committee

This group plans the social calendar of the year, cooperating with club presidents and leaders so that any conflicts in social affairs may be avoided. It also serves in an advisory capacity for those students who are planning dances, teas, and other social functions.

Parking Authority Committee

The function of this committee is to supervise student facilities and aid in the maintenance of the campus. All regulations and collection of fees regarding parking of automobiles fall under jurisdiction of this committee.

Delegates-at-Large

The three delegates which each class elects are the connecting links between the student body and the administrative officers of the college through the Student Council. They report to their classes on the Council meetings and act as official representatives on all matters relating to the functions of their classes.

STUDENT ORGANIZATIONS

A.C.E.I.

A student branch of the Association for Childhood Education International, this professional club is concerned with children from the ages of six to twelve. The main purpose of this organization is to learn to make the community a better place for all children.

Alpha, The College Yearbook

Alpha is the tangible record of the activities of the graduating class in particular, and of the college in general. The staff is selected on a basis of leadership qualities, personality, scholarship, and an ability and interest in the production of Alpha.

Aquabrytes Club

This club is open to all students of the college interested in synchronized swimming.
Audio-Visual Club

This is a campus service organization, which aims to make available technical assistance, aids, and equipment when needed by the faculty, campus organizations, and student teachers, and to train club members and other interested students in the proper care and use of the A-V aids and equipment.

Biology Club

Open to biology majors, this club is interested in affording the students an opportunity to get together, exchange ideas, invite interesting speakers to the campus, and to have formal discussions with the faculty.

Campus Comment

This, the official college newspaper, is issued bi-weekly throughout the year. Staff membership is open to any student wishing to participate. Promotion to the editorial board is based on a person’s merit and length of service to the paper, according to the board’s discretion.

Christian Fellowship

Christian Fellowship is the federation of Protestant students on campus. Its purpose is to stimulate study, thought, and action in an attempt to learn more completely the meaning of Christianity; to meet the personal needs of the members; and to share together in the total task of Christianity throughout the world.

Day Student Organization

This organization was formed for the purpose of regulating matters pertaining to the life of the day students at Bridgewater, and for the promotion of fellowship among its members.

Debate Club

The club’s purpose is to stimulate progress in and to further the interests of inter-collegiate speech activities. Membership is open to all students, and training and practice are available for all interested.

Dormitory Council

This was organized for the purpose of providing harmonious and pleasant dormitory life, and is responsible for making and requiring observance of the rules governing the general conduct of dormitory students.
Dramatic Club

The purpose of the club is to train all interested students in the various techniques of the stage; to develop ability to speak before an audience; and to provide entertainment for the college at large.

Earth Science Club

The purpose of the Earth Science Club is to encourage students to give informal expression to their interests in the earth sciences and geography through field trips, sponsorship of lectures, and the development of extra-curricular projects. Membership is open to all students.

French Club

Le Cercle Français is an organization for those who are interested in France and French culture. This group also sponsors a Mardi Gras celebration every other year in cooperation with other organizations on campus.

Glee Club

The Glee Club consists of those students interested in singing and in good music. Students must pass a voice test to obtain membership in the club.

Herodotus Club

The purpose of this club is to create an interest and understanding of history throughout the student body. Membership is open to all students of the college.

Kappa Delta Pi

A national society in education, this gives recognition to the highest professional, intellectual, and personal standards. Membership is open to a limited number of those seniors and juniors who are in the upper quintile of their respective classes, and who meet the society's standards in regard to personality and contributions to the college.

Mathematics Club

The objectives of this club shall be to afford an opportunity for students of mathematics and science to become better acquainted, to secure the intellectual stimulation that arises from professional association, to secure experience in preparing and presenting technical material before mathematical audiences, to foster a professional spirit among its members, and to instill a professional pride in mathematics.
Men's Athletic Association

The purpose of the association is to carry out the men's athletic program throughout the year, including both intramural and varsity sports.

Menorah Club

Menorah Club was formed primarily to promote interest in Jewish culture, ideals, and problems. Speakers, group discussions, and social affairs are included in the program, which is open to all members of the college.

Modern Dance Club

This organization invites all women students to participate in the use of the dance for creative composition and expression.

Newman Club

The particular aim of this club is to provide for a union of those students of the Catholic faith whose ideals and principles are similar to those of Cardinal Newman. The club's aims are religious, educational, and social.

Organ Club

This group promotes interest in organ music, encourages proficiency in performing works on the organ, makes the organ available for college activities, sponsors concerts, and helps with the annual concerts of the college.

Phi Pi Delta Fraternity

This brotherhood offers opportunities for personality and character development, leadership and professional training, social and professional contacts, scholarship and personal aid. It introduces its members to new interests and evokes the feeling of brotherhood through cooperative activities and responsibilities.

P.E.M. Club

This is a professional organization in the field of physical education and health, made up of all members of the physical Education Department, to advance the standards of teaching and leadership; to stimulate a wide and intelligent interest in health, physical education, and recreation; and to promote social and professional cooperation among students, faculty, and alumni of the college.
S.T.E.A.M.

The Student Teachers Education Association of Massachusetts is a professional organization open to Juniors and Seniors who are enrolled in a teacher education program, and provides opportunities for personal and professional growth; development of leadership skills; understanding of the history, ethics, and progress of education at state and national levels; and participation in professional activities at local, state, and national levels, especially integrating programs of local associations and student education associations.

Visual Arts Club

Its purpose is to stimulate an art-consciousness among students on campus. There is opportunity in the club to develop artistic talent, or simply to foster an interest in or love for art. Membership is open to all students.

Women's Recreation Association

This is the second largest organization on campus, and one of the most active. It serves the women of the college by providing for them opportunities for wholesome physical recreation, either as participants or as leaders. It also sponsors a variety of social events throughout the year.

HONORS AND AWARDS

To give recognition and prestige to student achievements in campus activities and to emphasize intellectual attainments, Bridgewater State College offers many honors and awards annually in May at Honors Day ceremonies.

Art Key

Sponsored by Rosa Silva, '21. Presented to a senior who has shown outstanding achievement and interest in art and art teaching.

Centennial Class Award In History

Sponsored by Dr. Jordan Fiore, '40, in honor of the Class of 1940. Awarded to the highest ranking senior student in the field of history.

Julia Carter Award

Sponsored by friends of Julia C. Carter, former Librarian. Presented to a student who has shown unselfish devotion to the well being and progress of the college library.
Class of 1953 Award

Sponsored by the Class of 1953. Awarded to that senior who has never been elected to a major office, who is always loyal to his friends, his college, and his responsibilities, and who has demonstrated that he can follow as well as lead.

Delta Kappa Gamma Scholarship

A full year's tuition ($200.00) given to an underclassman who excels in scholarship and loyalty to responsibility.

Elementary Key Award

Given by a friend of the college to the outstanding elementary major who typifies success in student teaching, leadership, and professional potential.

M. Katharine Hill Prize

Sponsored by the Hill Memorial Fund in memory of a beloved and gifted teacher, Mary Katharine Hill. Awarded to a senior whose interest in the field of Literature has been outstanding.

Kappa Delta Pi Scholarship

Awarded each September to a member of the senior class who has achieved the highest academic rank at the end of the junior year.

Anna McGrory Award

Sponsored by the friends of Anna McGrory, '40, who died at the age of 27. Presented to a girl in the graduating class who has not held a major office in the college but who has the following qualities: loyalty, faith, devotion, service, and a sense of humor.

History Awards

Awarded to the students who have ranked the highest in the Civic Education Course. This prize is the gift of several members of the Class of 1940.

Men's Athletic Association Award

Sponsored by the Men's Athletic Association. Awarded to a senior man for sportsmanship, scholarship, and athletic improvement.

Dr. Mary J. Moriarty Award

Presented annually by the Physical Education Alumni Association to a member of the graduating class of the Physical Education Major
It is given for noteworthy scholarship, distinguished leadership, and outstanding service to both the Physical Education Department and the College.

**Omega Iota Phi Sorority Scholarship**

Sponsored by the Omega Iota Pi Sorority. Awarded to the most deserving underclasswoman who has maintained a high degree of self-reliance and seriousness of purpose.

**Physical Education Key**

Sponsored by Myra I. Luce, '21. Awarded to the physical education student who has achieved the most over a four-year period in teaching ability, attitude toward teaching, professional appearance, skills, scholarship, and activities.

**S. Elizabeth Pope Award**

Sponsored by Dr. Ellen Shea, '35, in honor of S. Elizabeth Pope, former Dean of Women. Presented to that senior girl elected by the women of her class who has given of herself most generously in service to this college and in the promotion of good fellowship among her classmates.

**Louis Carmel Stearns Award In Botany**

Sponsored by the Alumni Association. Presented to that student who has demonstrated the greatest proficiency in the botanical sciences.

**Le Cercle Francais Award**

Sponsored by the French Club. Awarded to a senior for excellence in French and outstanding service to the French Club.

**Outstanding Student Librarian Award**

Given by the Student Cooperative Association Library Committee and the Library Staff to the student librarian of the year who has distinguished herself in "Librarianship."

**Dr. William G. Vinal Award**

The Biology Club award has been named in honor of Dr. William C. Vinal and is to be awarded for excellence in the field of Zoology over a four-year period.

**Fall River Area Alumni Club Award**

To be given annually to the highest ranking senior from the Fall
River area, presented for the first time in 1963.

Bridgewater Area Club Award

The Bridgewater Area Alumni Club makes this award to the sophomore who was the highest ranking freshman.

Springfield Area Club

Sponsored by the Springfield Area Alumni Club and awarded to the senior who has been outstanding in social studies.

Edith G. Shulman Award

Sponsored by Edith G. Shulman, Class of '25, and awarded to that senior who has shown creative excellence in the study of English.

Scholastic Music Award

Presented to a student with outstanding musicianship by the members of the Music Department.

Faculty Wives Scholarship

A full scholarship is presented to a junior who has contributed the most to the cultural life of the college.

Martin T. Rizzo Memorial Award

Given by his friends to a student who is interested in athletics, is popular with his classmates, and is determined to succeed academically.

Robert Fay Scholarship

Offered by his friends to a junior who demonstrates athletic excellence, sportsmanship, and an eagerness to serve his teammates.

John F. Kennedy Memorial Award

Awarded by the Plymouth County Democratic League to a junior who has demonstrated leadership in club work and has maintained academic excellence.

S.C.A. Social Committee Award

Given to the club or organization who has contributed the most to the cultural growth of the college during the academic year.

Student Cooperative Association Leadership Award

Sponsored by the S. C. A., this award is given to the senior who has
shown outstanding leadership in school and college activities. Selection is made by the underclass members of the Student Council.

Hill-Ross Award

Sponsored by the Class of 1935 to perpetuate the memory of Lt. Paul D. Hill and Capt. Donald E. Ross. Awarded to the outstanding member of the graduating class, who, by high standards of achievement and character, scholarship, and participation in activities, has contributed most to the life of the college.

THE CAMPUS

The State College at Bridgewater is located just east of Central Square in Bridgewater, Massachusetts, off Routes 18, 28 and 104. At present the 100-acre campus contains 16 buildings, with a Student Union Building to be completed by September, 1967 and two new dormitories during 1967.

Gates House, on the corner of Grove and Cedar Streets, has been the home of presidents of the college since 1933. It is now the home of President and Mrs. Adrian Rondileau.

The Martha M. Burnell School, on Grove Street facing the quad- rangle, is the laboratory school for Bridgewater students pursuing the Bachelor of Science in Education curriculum. The school provides four grades and a kindergarten where juniors do their student teaching under supervision. On the ground floor is a lounge where teachers may relax during their free time. The laboratory school is often visited by classes from the college, who observe demonstration lessons taught by the Burnell School faculty.

Also on Grove Street, next to the Burnell School, is Woodward Hall, named for Eliza Woodward, a beloved teacher who served the college for many years. This large dormitory houses over two hundred women students. It has three floors containing eighty-five double and triple rooms. On the first floor are located the office of the Assistant Dean of Women, a music room, and a reception room. On the ground floor is a kitchenette, ironing room, recreation room, laundry room, and study hall.

At the corner of Summer and Grove Streets is the Men's Dormitory, a modern brick building which accommodates about one hundred young men. Between the Men's Dormitory and Park Avenue is the area called Lower Campus, which contains the College tennis courts. In this area will be the new Student Union Building.

The first building on Park Avenue is the S. Elizabeth Pope Hall, named for a former Dean of Women. This dormitory contains all double rooms and houses one hundred and fourteen women students.
The college Infirmary is on the first floor of this building, which also contains a modern reception area for entertaining guests. On the ground floor are laundry facilities, a combination lounge and study hall, and a cafeteria.

Next to Pope Hall is the Stevens Greenhouse and Botanical Gardens, located on land donated by Mrs. Elizabeth Stevens. Many rare and interesting plants are found in the greenhouse. The surrounding gardens contain a small goldfish pond and picnic area for campus organizations.

Next to the Greenhouse, is the Science Hall, a three-story structure which contains classrooms, laboratories, a lecture hall, and private offices for members of the science faculties.

Also on Park Avenue is the Gymnasium, which contains two gyms, the swimming pool, showers and locker space for both men and women students, classrooms, and the offices of the faculty of the departments of Health and Physical Education. Next to the Gymnasium is a large parking lot for commuting students.

On School Street facing the quadrangle is the Clement C. Maxwell Library, which contains seventy-five thousand volumes. There are thirty-five student carrels, twelve listening rooms, a spacious reading room which also houses reference material, and a lounge for the faculty.

At the corner of the quadrangle on the corner of Summer and School Streets is Tillinghast Hall, named for Nicholas Tillinghast, the first principal of the Normal School. The rooms in this women’s dormitory are singles, with the exception of two suites. The spacious reception room on the first floor is used by the students for entertaining guests and for teas, meetings, and social functions of many kinds. On the same floor is found the college dining hall for dormitory students. On the ground floor is a reception room for students, the student post office, laundry facilities, some faculty offices, a new music room, and a suite which houses the Alumni Office.

The central building of the campus is Boyd Hall, also known as the “Ad Building.” All administrative offices are found here, as well as many faculty offices, and classrooms. Facilities for the use of commuting students, lunch rooms, and locker rooms are located on the ground floor. The Horace Mann Auditorium, in which plays, concerts, lectures, and convocations are held, is in the northeast section of the building.