

1968

Gorham State College Catalog 1968

Gorham State College
University of Southern Maine

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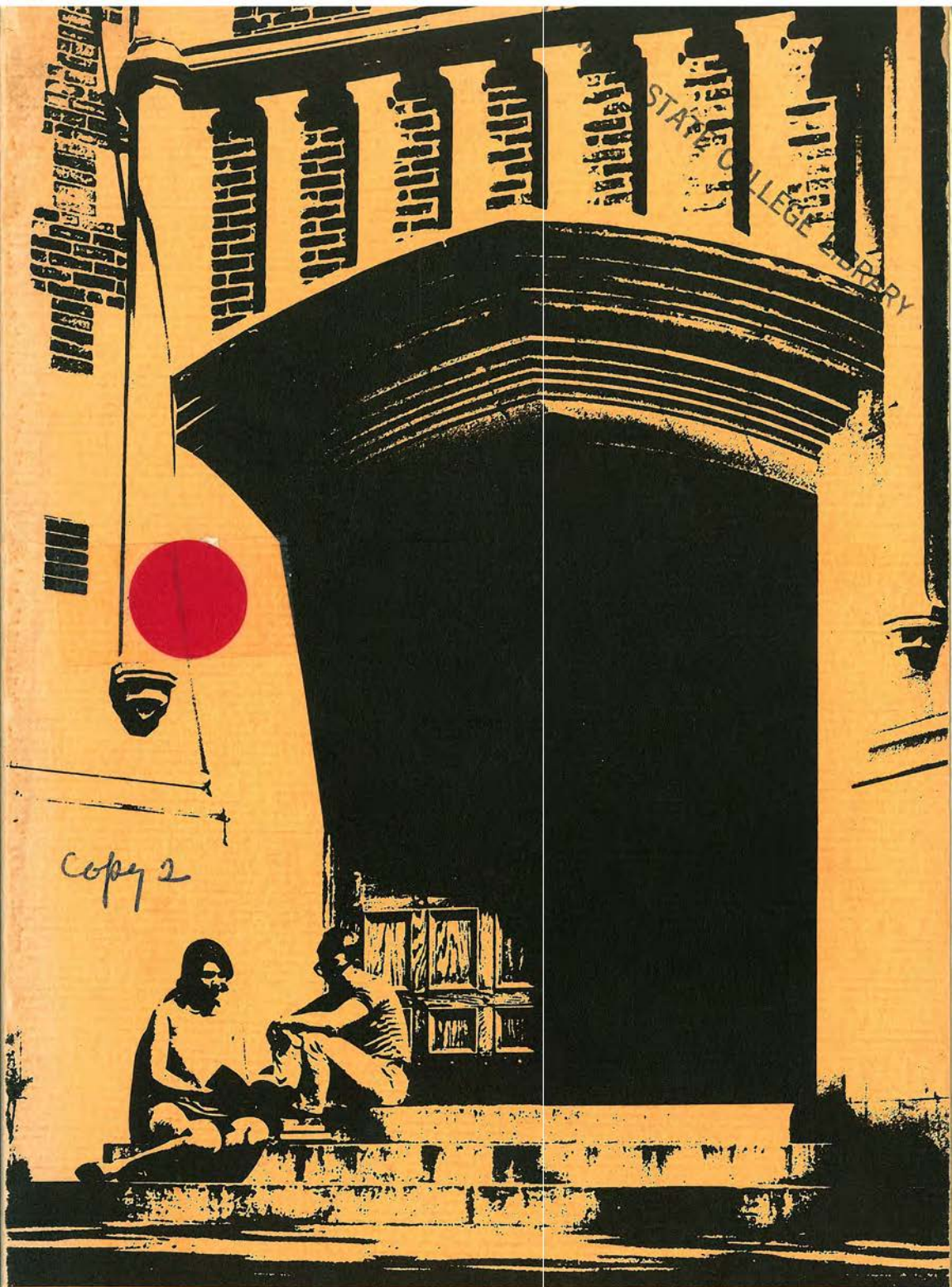


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GORHAM STATE COLLEGE

Catalog for 1968

Academic Calendar 1968-69

1968

First Semester

September 8	Residence Halls for Freshmen Open at Noon
September 10	Residence Halls for Upper Classmen Open at Noon
September 9-10	Registration and Testing
	Adviser - Advisee Conferences
	Faculty and Departmental Meetings
September 11	Classes Begin
October 3-4	MTA Convention - Classes in Session
November 8	End of First Quarter
November 12	Mid-term Grades Due in Registrar's Office
*November 28-29	Thanksgiving Recess (Classes End at Noon on Nov. 27)
December 1	Residence Halls Open at Noon
December 2	Classes Resumed
*December 20	Start of Christmas Recess (Classes End at Noon on December 20)

1969

January 5	Residence Halls Open at Noon
January 6	Classes Resumed
January 13-17	Examination Week
*January 20-24	Between Semesters Recess

Second Semester

January 26	Residence Halls Open at Noon
January 27	Registration for Second Semester
January 28	Classes for Second Semester Begin
March 28	End of Third Quarter
*March 31-April 4	Spring Recess
April 7	Residence Halls Open at Noon
April 8	Classes Resumed
April 11	Third Quarter Grades Due in Registrar's Office
May 21	Reading Day, No Classes
May 22-29	Examination Week
May 30	Memorial Day, No Classes
June 1	Baccalaureate and Commencement
Student Teachers' Vacation Schedule -- Second Semester:	
January 27	Start of Student Teaching
Pending Public School Announcement --	Observe Public School Vacation
March 31-April 4	Observe College Vacation
Pending Public School Announcement --	Public School Vacation --
	Student Teachers Hold Seminars at College

* During College recesses, all residence halls will be closed.

SUMMER SESSION

1968 -- Six-Week: June 17-July 26; Three-Week: July 29-August 16
 1969 -- Six-Week: June 16-July 25; Three-Week: July 28-August 15



GORHAM STATE COLLEGE

Catalog for 1968 / Gorham, Maine





Bailey Hall from the Grove

About Gorham State College

The History

Gorham State College began officially in 1878 when the Maine Legislature approved the establishment of Western Maine Normal School on the site of the Gorham Female Seminary. The Normal School opened on January 29, 1879 with six faculty members and 85 students.

The name of the School was changed to Gorham State Teachers College in 1945 and to Gorham State College in 1965.

The College has been served by four presidents: Dr. William Corthell (1878-1905), Dr. Walter F. Russell (1905-1940), Dr. Francis L. Bailey (1940-1960), and Dr. Kenneth T. H. Brooks, who was appointed President in 1960.

Gorham State College has developed over the years to its present size of over 1,000 students and 100 faculty members. The growth in size has been paralleled by a rapidly expanding curriculum. The industrial arts program was instituted in 1911. The College graduated its first class in the kindergarten-primary program in 1927. The first graduates in the full four-year curriculum were awarded degrees in 1938.

A program to prepare music teachers and supervisors was instituted in 1955 and one for the preparation of art teachers and supervisors in 1958. In the fall of 1966 the curriculum was expanded to include preparation for teaching at the secondary level and in 1967 to include a liberal arts program.

The College has long conducted a summer session and in 1964 established a graduate school.

ACCREDITATION/OBJECTIVES

Accreditation and Membership

The College is accredited by the New England Association of Colleges and Secondary Schools and the National Council for Accreditation of Teacher Education.

A membership is held in the Association of State Colleges and Universities, the American Council on Education, the American Association of Colleges for Teacher Education and the American Association of University Women.

The Objectives

The major purpose of Gorham State College is to provide a continuing supply of graduates to serve public education in the areas of Kindergarten-Primary, General Elementary, Junior High and Secondary Education, and the special fields of Art, Industrial Arts, and Music Education. A new purpose is to provide a limited liberal arts program.

Teacher Education

The College seeks to graduate teacher candidates of professional competence and personal character whose careers will reflect their dedication to effective programs of teacher education. Its graduates are expected to be:

- Academically competent teacher candidates who are products of a responsible process of selection and retention.
- Those who have experienced a program of academic excellence providing both breadth through general education and depth in their special areas.
- Those with a sound understanding of self, of human growth and development, of the teacher-learning process, and of the cultural foundations of education.
- Those who have acquired sufficient student-teaching experience to enter professional life with a minimum of delay or difficulty.
- Those whose professional orientation enables them to understand, as well as assume, their roles in a democratic society, its schools and communities.

Liberal Arts

The College seeks to produce liberal arts graduates characterized by:

- Minds which have been enriched by exposure to the great ideas of Western civilization, the "great books," the major achievements in science and technology, the theories of government, the creative works which make up our heritage. In addition, there should be a broad understanding of contemporary ideas, world problems, economic issues, forms of government, the challenges of today's science and technology. Intellectually, then, these students are oriented in relation to their cultural past and to the world in which they live.
- Moral character, understanding of self, awareness of ethical imperatives and values and an eagerness to help in the solution of problems of society.
- The ability to express ideas both orally and in writing.
- A developed aesthetic and critical sense, enabling the student to recognize and appreciate the best in the visual arts, music, and literature.
- A desire for more learning.



Aerial View of the Campus

The Location

The College is located in the town of Gorham in the heart of southern Maine's most attractive cultural and recreational area. Portland, largest city in the State and only ten miles from the campus, offers many opportunities for the enrichment of student life.

The quiet serenity of a residential town has assured an ideal college setting. Through educational and civic activities both the students and faculty take a vital interest in the community and, in turn, many residents of Gorham warmly support College events.

Boston is only two hours traveling time from the campus and provides a cosmopolitan experience and unparalleled research facilities for students and faculty alike. Easily accessible to the College is the Sebago Lake Region, a nationally famous resort area. The White Mountains are an hour's drive from the campus, and the Maine seacoast is easily reached in a half hour.

Thus, students and faculty at the College find the advantages of both city and country living within easy reach — winter and summer sports, cultural events, libraries, and a wide variety of social activities.

The Campus

Surrounded by towering pines and hardwoods, the 125 acre campus stands on a hill overlooking the town of Gorham to the south and the Sebago-White Mountain region to the northwest.

The architecture of the 15-building campus is a blend of traditional and modern designs. Earlier buildings express the College's deep traditions while those in the contemporary mode reflect the rapid development.



Main Entrance Hill Gymnasium

Major campus buildings include:

- **Bailey Hall Science Wing (1958)** — Contains the classrooms, laboratories and offices of the Science and Mathematics Departments, greenhouse, and a science museum maintained by faculty and students and available to visitors upon request.
- **Bailey Hall Library Wing (1961)** — Named for the third President of the College, Dr. Francis L. Bailey, the building contains a 45,000 volume library in a highly adaptable complex of stacks and reading areas. Included are conference rooms, a study-smoker and music listening area. The east side of the building contains classrooms, conference rooms, lounges, faculty offices and facilities for closed circuit television.
- **Warren G. Hill Gymnasium (1963)** — Bears the name of a former Maine Commissioner of Education and graduate of the College. The 2,500-seat gymnasium provides facilities for men's and women's physical education, locker rooms, classrooms, and offices of the Health and Physical Education Department. The gymnasium is used for intramural and inter-collegiate athletics and other College functions.
- **Woodward Hall (1955)** — Named for a former Vice-President of the College, Louis B. Woodward, the building provides dormitory accommodations for 96 resident men students.
- **Woodward Hall Extension (1963)** — Contains lounges, study areas, and dormitory accommodations for 106 resident men students.
- **Russell Hall (1931)** — Bears the name of the second President of the College, Dr. Walter F. Russell. Contains a stage, 500-seat auditorium, workshop facilities and offices of the Drama Department together with a gymnasium used for recreational and other campus activities.
- **Corthell Hall (1878)** — The College Administration Building is named for the first President, Dr. William Corthell. Contains administrative offices, information desk, bookstore, student lounge, classrooms and offices of the Music and Education Departments. Also contains the Museum of Man and Culture which includes an extensive and significant collection of Caribbean and Pre-Columbian artifacts.
- **Robie-Andrews Halls (1897-1916)** — A dormitory complex containing accommodations for 200 resident women students. Robie Hall is named for Frederick Robie of Gorham, an early benefactor of the College. Andrews Hall, named for Professor Emerita of Music Miriam Andrews, also contains classrooms and laboratories of the audio-visual education program.
- **Academy Building** — Housed the original Gorham Academy and presented to the State of Maine in 1895. Renovated in 1966 to contain studios, offices and classrooms of the Art Department.
- **Upton Hall (1960-1967)** — Named for long-time faculty member Miss Ethlyn Upton. Contains lounges and dormitory accommodations for 300 resident women students. First floor north wing houses the College dining facilities.
- **McLellan House** — Considered to be the oldest brick house in the State of Maine. Purchased and renovated by the College in 1966 and operated as an honor resident dormitory for 16 women students.
- **President's Residence (1906)** — Provides living accommodations for the President of the College and his family.
- **All Faiths Chapel** — The former Gorham Town Hall, acquired in 1961 by the College for use as a student chapel; houses the Gorham State College Art Gallery.
- **Industrial Education and Technology Center (1965)** — Contains offices, classrooms and laboratories for conducting programs in industrial arts and vocational-industrial teacher education. The Center has facilities for teaching concepts in the manufacturing, construction, power-transportation, electrical-electronics, graphic communications, and service industries.

Admission to the College

Academic Standards

The College recommends the following subjects as minimum academic preparation for students seeking admission to Gorham State College.

College Preparatory English	4 units
College Preparatory Math	2 units beyond
	9th grade algebra
Science	2 lab units beyond
	9th grade science
Social Science	3 units
Foreign Language	2 units
	(one language)

Scholastic Aptitude Test and Achievements

All applicants are required to submit scores from the Scholastic Aptitude Test of the College Entrance Examination Board.

In addition to the Scholastic Aptitude Test, achievement scores are required of all candidates. Candidates are urged to submit the Scholastic Aptitude Test and achievement scores no later than January of the senior year. Test scores from comparable examinations will be considered on an individual basis.

1. Those students applying to the kindergarten-primary, general elementary, and specialized programs of art, music, and industrial arts must submit the English achievement score and an optional achievement score.

2. Those students applying to the junior high, secondary, and liberal arts programs must submit the English achievement score and an achievement score in the subject matter in which they plan to major. If a candidate selects to major in English, he may select an optional achievement.

Other Standards for Admission

Students must be graduates of an approved four-year high school, or meet requirements through the state high school equivalency examination.

Aptitude and character as evidenced by the recommendation of the high school principal or guidance counselor and by a transcript of the applicant's high school record.

Good physical and mental health as evidenced by a medical examiner's report. Completed medical reports are required before students are allowed to matriculate and register for classes.

Interview

Interviews are required of all students accepted for admission to the College. In the areas of Industrial Arts, Music and Art Education the interview is handled by the particular department. All other candidates are interviewed by the Director of Admissions.

Additional Requirements for Admission to Areas of Specialization

Art

All applicants for the Art Education Program will be asked to appear before the faculty of the Art Department to present a portfolio of their work before they will be considered for admission to the College.



Registering for Classes

Industrial Arts

Applicants for the Industrial Arts Education Program are required to take special aptitude tests at the College; they should have had a minimum of one unit in either industrial arts or drafting (graphics) in high school, *which will be considered in lieu of the foreign language requirement.*

Music

All candidates for the Music Education Program will be asked to appear before the faculty of the Music Department for an instrumental or vocal audition. Written music aptitude and achievement tests will also be administered.

Admission to Advanced Standing

Students who have a year or more of study at any of the State Colleges in Maine may be admitted to advanced standing at Gorham State College with full credit for work satisfactorily completed if classroom, dormitory, and quota space is available. Advanced standing for work in accredited junior colleges, liberal arts colleges, technical schools, universities and summer sessions is granted when the work is "C" grade or better in courses corresponding to those offered at Gorham State College.

All applicants for admission to advanced standing must complete the same forms as an incoming freshman and request that official transcripts be mailed to the Director of Admissions from any previous college(s) attended. Student copies are not acceptable. Copies of catalogs including course descriptions must accompany all transcripts submitted for evaluation.

Students seeking advanced standing must submit in addition to high school transcripts, Scholastic Aptitude Test and achievement scores, and a character recommendation from the Dean of Men or Women of the college(s) previously attended.

ADMISSION PROCEDURES

The student who is interested in applying for admission to the College should follow the steps outlined below.

1. Obtain a copy of the College brochure and the necessary application forms from the Director of Admissions or from the high school principal or guidance counselor.

2. Discuss the advisability of attending Gorham State College with parents, the principal or guidance counselor. Be sure to make a realistic comparison of present achievements and aptitudes with those required for success at Gorham.

3. Select the program which promises fulfillment of personal ideals, interests and abilities. Be ready to take specific entrance examinations upon request by the College.

4. Follow the directions on the application form.

5. Mail the \$5.00 application fee and application form to the Director of Admissions.

6. The high school will send a transcript of work completed along with recommendations and teacher evaluation.

7. Have scores submitted from the Scholastic Aptitude Test and the Achievement Test of the College Entrance Examination Board. Students are responsible to instruct testing centers to forward the results of tests to the Admissions Office at Gorham State College. Applicants who encounter any difficulty should check with the local high school guidance department or the College Admissions Office.

8. Personality, character, vision, speech, hearing, physical and mental health are basic considerations in admitting an applicant to the College. The Committee on Admissions reserves the right to refuse admission to any candidate who is not fully qualified to meet College standards of personal fitness, scholarship, and moral conduct.

After the student's application has been reviewed and evaluated, the Director of Admissions will notify the applicant of the appropriate decision.

Upon acceptance, the student will be required to make appropriate deposits. A deposit of \$30.00, which will be credited to his account, is required of each residence hall applicant. An additional fee of \$25.00 for advanced tuition is also required. Checks should be made payable to Gorham State College and mailed to Mrs. Electa M. Brown, College Bursar.

Admission is not final until the student has satisfactorily completed all high school and Admissions Office requirements.

The College reserves the right to cancel the acceptance of any application it deems necessary for academic or personal reasons.

FINANCIAL AID

Students seeking admission to Gorham State College who anticipate requesting financial aid must apply through the College Scholarship Service Program, Box 176, Princeton, New Jersey 08540. The Parents' Confidential Statement may be secured through the local high school guidance office or by writing to the Admissions Office at Gorham State College.

Married students applying for financial assistance must fill out forms provided by the College and return them directly to the Financial Aid Office at Gorham.

Annual Expenses

TUITION:	
Maine Resident	\$100.00
Non-Maine Resident	\$200.00
ROOM:	
Dormitory Resident	\$250.00
BOARD:	
For all meals served in dormitory	\$395.00
STUDENT ACTIVITY FEE:	\$ 25.00
REGISTRATION FEE: (must accompany application)	\$ 5.00
MEDICAL INSURANCE: (optional)	\$ 20.00
INFIRMARY FEE:	\$ 5.00
BOOKS: (estimated)	\$100.00
COURSE FEES:	
Art Education Majors	
Freshmen, Sophomores, Juniors	\$ 30.00
Seniors	\$ 10.00
Industrial Arts Education Majors	
Freshmen, Sophomores, Juniors	\$ 30.00
Seniors	\$ 10.00
Music Education Majors (Includes cost of private lessons)	\$195.00
All other students	\$ 10.00

SCHEDULE OF PAYMENTS

Residence Hall students currently enrolled must make a combined tuition and room deposit of \$55.00 on or before April 15. This deposit is to be applied to the first semester payment.

Commuting students currently enrolled must make a tuition deposit of \$25.00 on or before April 15. This deposit is applied to the first semester payment.

The balance due on tuition, board and room for the first half year, plus all other fees for the full year, must be paid by August 15. The payment for the second half year must be made at a designated time before registration for the second semester.

Checks should be made payable to Gorham State College and directed to Mrs. Electa M. Brown, College Bursar.

Exceptions to the above schedule can be made only upon written request to the Bursar and upon approval by the Administrative Assistant of the College.

REFUND POLICY

No refunds of advance payments will be made unless these are requested prior to July 1. Refunds of other charges are made only when the student notifies the Bursar, in writing, of his official withdrawal from the College.

Non-refundable fees: Application or registration fee of \$5.00.

Non-refundable after registration: Student Fees, Course Fees, and Room Rent.

Insurance: Prorated and refund made to student.

Tuition and board: No refund after six weeks.

Two weeks or less in attendance	80%
Two to three weeks	60%
Three to four weeks	40%
Four to six weeks	20%



Woodward Hall Extension -- Men's Residence

Student Life and Services

FINANCIAL ASSISTANCE

Gorham State College offers various forms of financial assistance to students who show a definite financial need in completing their education.

Meeting the financial obligations of a college education is the prime responsibility of the student and his parents. Where a need for aid is shown the College may assist with loans, scholarships, or part-time work opportunities.

It is quite important that parents and students sit down to work out a financial framework for the period of time the student will be in college.

Who May Apply

Any full-time student matriculated for a degree or any candidate applying for admission to the College.

How To Apply

All applicants must file a Parents' Confidential Statement through the College Scholarship Service of Princeton, New Jersey. (Applications are available at the College Admissions Office or at the local high school guidance office.) Married students must complete a special form available at the College Financial Aid Office.

When To Apply

Students applying for admission to the College must submit the College Scholarship Service forms at the time they are applying to the College.

Recipients will be notified during the spring semester of their senior year in high school.

Students currently enrolled at the College who are required to submit College Scholarship Service forms must apply on or before April 1 for the coming academic year. Recipients will be notified at the time of billing July 15.

FINANCIAL ASSISTANCE

Conditions For Awards

1. Financial Need

Students are granted financial assistance based on definite need as indicated by the Parents' Confidential Statement and an evaluation made by the Financial Aid Committee.

2. Academic and Social Standing

Students on academic or disciplinary probation will not be considered for any form of financial assistance and funds may be withdrawn if a student is placed on academic or disciplinary probation.

Sources of Financial Assistance

1. State of Maine Scholarship Grants

Scholarships in the amounts of \$100 and \$200 are granted annually to approximately 200 students who are in good academic standing and show strong academic promise. Scholarship grants are applied to spring semester bills after the academic status of the student has been determined.

2. National Defense Student Loans

Gorham State College participates in the National Defense Student Loan Program whereby students may borrow funds from the government with deferred payments until after completion of their degree work. Loans average approximately \$300 for an academic year and may be applied to a student's bill for the fall and spring semester.

3. Federal Scholarships

Gorham State College participates in the Educational Opportunity Grants Program. Grants are awarded to students of exceptional financial need.

4. United Student Aid Fund, Inc.

Gorham State College is a participating member in the United Student Aid Fund, Inc. Program. Under the arrangements of this program students may borrow money directly from participating local banks with payments and interest deferred until the completion of their degree program. Under the arrangements of this program students may borrow up to \$1,000 annually as an undergraduate and up to \$1,500 annually as a graduate student for a total not to exceed \$7,500. Applications for this loan are to be secured directly from the participating bank.

5. Work Opportunities

Funds are available whereby students may be employed to help defray college expenses. Under the arrangements of some programs monies earned are applied directly to college bills with no funds going to the student and some jobs will pay money directly to the student. Jobs vary from library assistant, college dining service, secretarial, lab assistants to limited janitorial services. Job opportunities are also available in the town of Gorham for students to work part-time.

6. Scholarships

Oftentimes students bring with them to the College scholarships which are granted by local organizations such as P.T.A., A.A.U.W., and others to aid in defraying their expenses. Scholarship grants vary from \$50 to \$200 annually. Students must assume the responsibility of notifying the College Bursar of any scholarship awards which will aid in defraying college expenses. Gorham State College each spring recognizes outstanding upperclass students at a Recognition Day Convocation with scholarships established by students and families interested in the future of the College.

SCHOLARSHIPS

Recipients of scholarships awarded at the College Recognition Day program are selected by the Financial Aid Committee in accordance with the qualifications as established by the donors of these scholarships. These awards are made on the basis of academic excellence and outstanding campus leadership.

Scholarships Awarded

• Class of 1950	\$100.00
Given in memory of Barbara Payne.	
• Class of 1955	\$ 50.00
Given in memory of Barbara Silver.	
• Class of 1961	\$ 50.00
Awarded by members of Phi Sigma Pi Fraternity in memory of Donald Semmes.	
• Class of 1963	\$ 50.00
Given in memory of Nancy Chandler.	
• Alumni Association	\$100.00
Presented in memory of Walter E. Russell	
• Alumni, Southern Branch	\$100.00
• Alumni, Portland Branch	\$100.00
• Charles F. Martin	\$50.00 or \$100.00
• Gertrude L. Stone	\$100.00
• Frances Howarth	\$100.00
• Frank F. Brown	\$100.00
• Fannie E. Gray	
• State P.T.A.	\$200.00
• Hervey Hanscom	\$100.00
• Bailey-Jenkins	\$ 50.00
Given by Richard Jenkins in memory of his parents and honoring Dr. Bailey.	
• Richard Goodridge	\$ 50.00
• George P. Davenport Loan Fund	

To be used for making small loans to deserving students who are residents of the State of Maine, who are temporarily in need of money to pay expenses of their education. Small interest charge.

Woodward Hall Extension Lounge





Woodward Hall and Extension, foreground; Upton Hall, background

STUDENT HEALTH SERVICES

To provide adequate student health services, the College maintains an infirmary with two full-time registered nurses who are available for consultation, first aid, and temporary emergency care. Two local physicians are available by appointment, and immunization clinics are conducted periodically.

Health and accident insurance, which is available for all students at a nominal fee, covers a portion of hospitalization, surgery, medication, and care by a physician.

Formal instruction in areas of health and physical education is an integral part of the College health program.

STUDENT HOUSING

The College provides living accommodations for men and women students. Woodward Hall houses 96 men and Woodward Hall Extension, 106. Robie-Andrews Halls house 200 women and Upton Hall, 300. The McLellan House has accommodations for 16 women. The College cafeteria is located at Upton Hall for all resident students.

College regulations require that all women students live in the residence halls unless they live at home or in the home of close adult relatives. To the extent that space is available, all men students in the upper classes are also expected to reside on campus.

Those who cannot be so accommodated will be assisted by the Dean of Men in finding appropriate rooms in Gorham. They may either contract for all their meals at the College cafeteria or make their own arrangements off campus. The standard College rate will apply to those who choose to eat at the College.

STUDENT REGULATIONS

It is assumed that all students entering the College are willing to subscribe to the following: *That a student is expected to show, both within and outside the College, respect for order, morality, and the rights of others, and such sense of personal honor as is demanded of good citizens and prospective members of the teaching profession.*

The College requires certain standards of academic performance and of general good character for admission; if these are not maintained, the College suspends or dismisses the student. Every effort is made to provide adequate academic and personal counseling for all students, with the aim of enabling them to complete successfully their courses of study.

Gambling, use or possession of alcoholic beverages, use or possession of non prescribed amphetamines or barbituates, use or possession of hallucinogens, narcotics or marihuana, firearms or other dangerous weapons, and fireworks are prohibited from the College campus.

Motor Vehicles — The following students are authorized to park motor vehicles on campus in accordance with the conditions outlined in the motor vehicle guide.

1. Commuters attending day, evening, or graduate classes.
2. Junior and senior resident students. A motor vehicle must be registered at the College Bookstore on the first day that it is driven on campus.

Responsibility for Personal Property — The College does not under any circumstances assume responsibility for loss of or damage to personal property through fire, theft, or other causes. Persons desiring protection against possible loss or damage should purchase appropriate insurance unless it is found that parents already have desired coverage by means of a family policy.

Upton Hall — Women's Residence





Winter Carnival Queen Crowning

STUDENT LIFE

The student at Gorham State College is considered an active member of the campus community. As such, he or she is encouraged to take an interest in campus life and development.

The College sponsors a number of educational, cultural and social activities including a Concert-Lecture Series, a Film Series, Homecoming, Visitation Day, Winter Carnival, Miss Gorham State Pageant, Recognition Day, convocations, seminars, and special programs.

Students participate with faculty in the establishment of policy through membership on committees such as Concert-Lecture, Convocation, Publications, Athletic, Student Exchange, Traffic and Parking, Recognition and Visitation Days and Commencement.

CAMPUS ORGANIZATIONS

A student will find numerous extra-curricular opportunities on campus vital to his development as a person, citizen, and prospective teacher. Campus organizations provide a variety of activities — social, athletic, musical, artistic, intellectual, and religious.

Student Senate

The Student Senate regulates and governs all student activities on the campus. Primarily administrative in function, the Senate allocates and distributes student fees to various campus organizations and devises the campus-wide social calendar.

The Student Senate represents the official voice of the student body. It aids in planning campus development, serves as a community link between students and faculty, and lends support for the improvement of all student functions.

Music Organizations

MUSIC EDUCATOR'S NATIONAL CONFERENCE — The Music Educator's National Conference, a professional organization open to all students on campus, aims to present practical programs dealing with music education. In the spring it presents a concert of young musicians from public school music organizations.

A CAPPELLA CHOIR — The A Cappella Choir is a select vocal ensemble specializing in chamber music of all periods, from Renaissance to Contemporary. The A Cappella Choir performs at convocations, concerts, and other College functions.

BRASS ENSEMBLE — Brass Ensemble is a select group of advanced players, chosen from the college band, who specialize in the performance of brass chamber music. The group appears publicly several times a year at College concerts and community functions.

CONCERT BAND — The Concert Band is composed of students from all department of the College who desire to develop their musical talents and skills by participating in a wind band. The band presents a number of public concerts each year.

GORHAM CHAMBER ORCHESTRA — The Gorham Chamber Orchestra provides an opportunity for both day and evening college students to develop their musical talents and skills by participating in a Chamber orchestra. The group meets one evening each week for a two-hour rehearsal.

GORHAM CHORALE — The Men's and Women's Glee Clubs are made up of over one hundred carefully screened members. The Chorale makes several public appearances during the college year.

MEN'S GLEE CLUB — The Men's Glee Club performs works, both traditional and modern, which are especially suited to male voices. Occasionally it joins the Women's Glee Club in campus concerts, television shows, and guest appearances.

WOMEN'S GLEE CLUB — Membership is open to all interested women. The group performs representative works for women's voices and combines with the Men's Glee Club to present choral works of greater scope. Several public concerts are given during the year.

The Arts

ART CLUB — The Art Club provides an outlet and an opportunity for its members for creating art objects in various media.

DRAMA CLUB — Affiliated with the American National Theatre and Academy, the Drama Club is the producing organization for the College Theatre. Membership, which is open to all students on the basis of interest alone, provides opportunities for training and experience in every phase of theatrical work from performing to management, stagecraft, lighting, makeup, and design.

MODERN DANCE CLUB — Open to a limited number of students who seek training in the technique of modern dance, the Modern Dance Club provides an opportunity for work in choreography and experience in program planning.

The College Art Gallery





Fraternities provide good fellowship

Fraternities and Professional Organizations

FRATERNITIES:

Phi Sigma Pi is a national, professional (education) fraternity dedicated to the objectives of professional ethics and good fellowship among teachers. The organization sponsors various student and community service projects.

Phi Mu Delta is a national "social" fraternity designed to provide college men with healthy social experiences. The organization sponsors a variety of activities for the total college community.

Kappa Delta Phi is a national, professional (education) and "social" fraternity. The organization sponsors a variety of activities for the total college community.

Tau Kappa Epsilon is a national "social" fraternity organized to provide college men with a healthy and purposeful fraternal experience.

SORORITIES:

Sigma Chi Omega is a non-national sorority whose interests center around the growth and development of its members through community responsibility, work, and friendship.

Kappa Delta Epsilon is a national professional sorority. Its goals are to promote scholastic achievement, educational interests, and projects of service for the campus and community. Its membership is made up of persons actively engaged in the preparation for teaching.

AMICITIA CLUB — Amicita Club is a women's service organization which has members from the sophomore, junior, and senior classes. The organization provides a friendly and constructive program of community aid.

STUDENT EDUCATION ASSOCIATION — The Student Education Association is an affiliated group concerned with the changing problems and responsibilities of American education. As a member of the Maine Teachers Association and the National Education Association, the S.E.A. supports their codes of ethics, their policies and programs, offers informal coffees for student teachers, and sponsors speakers on foreign education.

INDUSTRIAL ARTS PROFESSIONAL ORGANIZATION — Open to all industrial arts students and faculty, the IAPO brings community professional programs to the College, encourages the exchange of ideas and the discussion of problems, and promotes further professional development through either membership or participation in state, regional, and national industrial arts associations.

INDUSTRIAL ARTS DEVELOPMENT COUNCIL — Serves the Department in an advisory capacity. Its membership consists of two elected representatives from each class and two faculty members. Its chief purposes are to discuss and to seek ways and means of fostering greater efficiency within the program and of improving faculty-student relationships.

EPISILON PI TAU — International honorary fraternity in industrial arts and industrial vocational education. Recognizes junior and senior students who have achieved scholastic honors and have made significant contributions in their major. Its purposes are to esteem the function of skill; to promote social and professional efficiency; and to foster and reward research.



Winter fun

Student Publications

HILLCREST — The Hillcrest, the annual College yearbook, is edited by members of the junior class. The staff is distinguished by editorial and administrative skill, originality, and initiative. It handles a variety of assignments: editing, layout, advertising, business management, art, and photography.

THE OBSERVER — The College newspaper is staffed and published by students interested in all aspects of journalism. The Observer serves as an outlet for journalistic talents through a variety of news resources: editing, reporting, feature articles, art work, and photography.

Religious Groups

STUDENT CHRISTIAN ASSOCIATION — The Student Christian Association, an interdenominational organization on campus, provides spiritual guidance and fellowship. The organization provides a variety of programs including films, speakers, discussions, debates, and projects.

NEWMAN CLUB — The Newman Club, a national collegiate religious organization, enables the student to share more intelligently and spiritually in Christian worship and to increase his knowledge of the role of Catholicism in today's world. The Club participates in religious, intellectual, and social activities.

Special Interest Groups

CHESS CLUB — The Chess Club was organized by chess enthusiasts to provide ready competition for the confined players in the community, to help teach novices, and to insure campus-wide improvement in a fascinating and relaxing pastime.

COMMUTER CLUB — The Commuter Club provides continuous communication and close relationships between resident students and those who commute. The club sponsors several activities during the school year for the College community.

DEBATING CLUB — This club is open to all students whose interests lie in research, discussions, and debating of a wide variety of topics.

NORTH AMERICAN TRAVEL ASSOCIATION — Students interested in personal and professional improvement through travel join in fund-raising activities to finance their annual trip to points of interest in the Eastern and Central states as well as Canada.

OUTING CLUB — The Outing Club serves to provide students with an opportunity for healthful enjoyment all through the college year. Some of its activities include overnight camping trips, skiing excursions, and hiking.

PUBLIC AFFAIRS CLUB — The Public Affairs Club sponsors activities for students interested in contemporary social and political issues. The club sponsors assembly programs, visiting international scholars, teacher workshops, and student participation in conferences at other colleges.

VARSITY "G" CLUB — A service organization made up of men earning letters in varsity sports competition, the Varsity "G" Club assumes responsibility for sponsoring special athletic events and assists in the College intramural program.

WOMEN'S ATHLETIC ASSOCIATION — Stressing student leadership and college-wide participation in sports, the WAA sponsors such sports as softball, basketball, volleyball, tennis, trampoline, archery, and fencing.



Corham offers a broad athletic program



Intercollegiate Athletics

Intercollegiate athletics, an integral part of the physical education program, provides special opportunities to develop physical skills and encourage leadership and sportsmanship among outstanding athletes.

As one of the members of the New England State College Athletic Conference, the Huskies compete successfully in varsity cross-country, soccer, basketball, baseball, tennis, and golf. A freshman basketball schedule completes the present program.

As a member of the National Association of Intercollegiate Athletics (District 32), the College has participated in district play-offs in soccer, basketball, and tennis. Gorham State is also a member of the National Collegiate Athletic Association and the Eastern College Athletics Conference.

The Warren Hill Gymnasium is one of the best designed and adequately equipped sports facilities in the area.

Men's Intramural Athletics

The Physical Education Department conducts an intramural program for men students emphasizing voluntary participation in a variety of team and individual sports during free time. Activities include tennis, golf, touch football, volleyball, basketball, softball, and table tennis.

Placement of Graduates

The responsibility of Gorham State College for assisting its graduates in securing positions is recognized and accepted by the Placement Office. The aim of this service is twofold: to help each graduate secure the position for which he is best qualified by training, experience, and personality; and to assist school officials in finding qualified teachers who will meet the needs of their systems.

The Director of Placement keeps complete files of candidates showing their scholastic record, qualifications for teaching, and personal characteristics.

The Office informs students concerning location of positions, grade levels, and salaries; arranges personal interviews between school officials and candidates for positions.

The Director plans visitations for seniors, before contracts are signed, to the schools in which they show professional interest; and guides prospective teachers in preparing credentials, participating in placement interviews, and evaluating the desirability of various teaching situations.

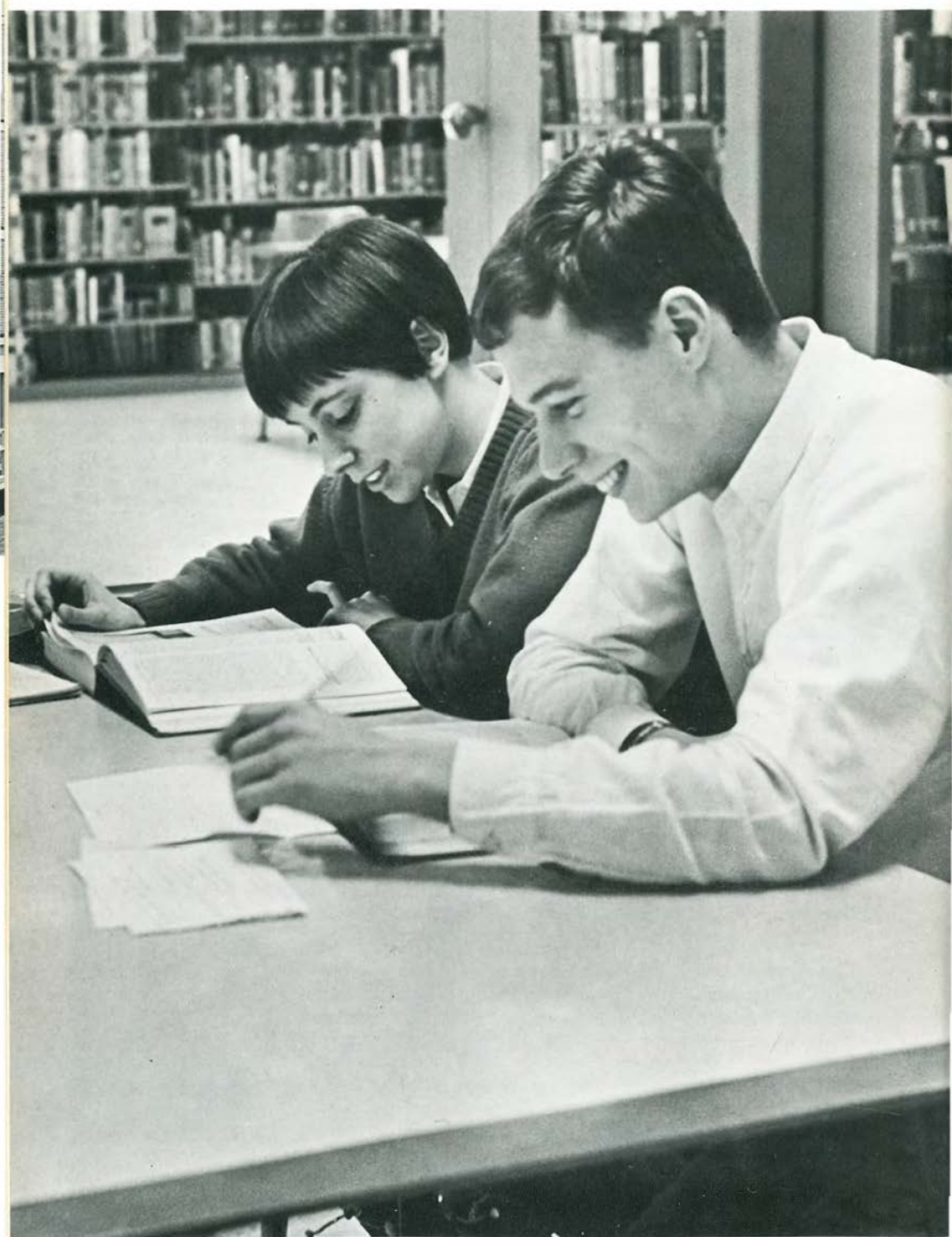
An analysis of first-year graduate positions by teaching level, salary, and geographic distribution is published every fall and is available at the Placement Office.

The Alumni Association

The Alumni Association of Gorham State College aims to promote the progress of the College and to supplement its facilities. Those active in the Association are increasingly aware of its responsibility to the development of the College. Greater financial support by members is making possible more services by the Alumni Office.

The Board of Directors meets regularly and the full Council several times a year. A directory is published periodically and the Alumni News is sent to all graduates three times a year. A Reunion Weekend in June climaxes the year's activities.

The Association and its branches are making an effort to convey to graduates, especially to those of recent years, the importance to Gorham of continued support of and participation in alumni activities.



The Academic Policies

The Advisory Program

An orientation program is provided for new students at the beginning of the fall term. It includes placement tests, social events, discussion groups, and tours. The program gives the new student an opportunity to meet faculty members, faculty advisers and upper class student advisers, to learn more about college services, and to complete registration.

Every student is assigned an adviser whose primary function is to assist the student in the selection of courses. Normally the adviser is from the department in which the student will major. In cases where this is impossible the student may be reassigned by the end of the sophomore year.

The adviser is available for scholastic or personal consultation at his own or at the student's request. In addition the student is encouraged to meet with an individual faculty member, the Dean of Academic Affairs, the Assistant to the Dean, and the Deans of Men and Women when they can be of assistance.

Attendance Regulations

It is assumed that the satisfactory performance of academic duties requires regular and punctual class attendance. A student in good academic standing is permitted, each semester, one absence per credit-hour. Unless he officially withdraws by securing a permit from the Dean of Academic Affairs, he is expected to complete the course in question. Mere nonattendance does not constitute official withdrawal.

The Grading System

A letter system of reporting final grades is used. *A, B, C, D, F, Inc.* and *W* represent the levels of achievement. The basis for determining a grade is the relative extent to which the student has achieved the objectives of the course.

The grade *A* symbolizes work of superior quality achieved only by the ablest students. *B* rank indicates work of a quality substantially better than the minimum requirements. *C* represents work of a satisfactory but average quality.

The *D* implies a less than satisfactory quality but is acceptable for credit except in the Secondary Education majors and minors and in transfer. *F* is a failing grade and indicates work of such an unsatisfactory quality that no credit is given.

Inc. indicates that the student has failed to complete specific course requirements. *W* represents withdrawal from a course.

Pass-Fail Option

In the fall of 1967 the pass-fail option was instituted for an experimental period of three years. Students are permitted to enroll for a maximum of six hours of pass-fail credits in any one semester to a maximum of 18 hours, exclusive of student teaching and the related seminar, of the total credit hours required for graduation. Student teaching and the related seminar are considered as a block for election of the pass-fail option.

Course Credits

Since a minimum of 125 credit hours is required for graduation, thirty-two should be earned each year. To progress satisfactorily through college a student is expected to carry sixteen credit hours each semester. Permission must be obtained from the adviser if a student wishes to carry less or more than the required sixteen hours.

ACADEMIC POLICIES

A course rated *F* does not carry credit and must, unless it is a free elective, be repeated and passed; if it is a free elective course, another elective may be approved in its place by the faculty adviser.

An *Inc.* mark must be satisfactorily removed within two weeks of the close of the term in which the grade was given. It is the student's responsibility to remove the *Inc.* rank by consulting his instructor; otherwise the *Inc.* will be changed to an *F* by the Registrar.

A scholastic warning is prepared by the instructor for students whose academic performance is below average at mid-semester. The Dean of Academic Affairs will notify each student, his parents, and his adviser of the instructor's warning. The report is designed to help the student analyze his deficiencies by conferring with his instructor and his adviser.

Independent Study

Junior and senior students with a 3.0 or above average in their major may register for independent study in that major for one to six credits. No more than three credits may be earned in a semester. Permission of the instructor is required for enrollment.

Class Status

Class status is determined by the number of acceptable credit hours the student has earned toward the degree. For freshmen status students will have earned up to 25 credit hours; for sophomores, 26 to 58; for juniors, 59 to 90; and for seniors, 91 to 128 credit hours.

The single exception to the above scale exists when a student transfers from another institution, or from another curriculum within our own College, with an accumulation of credit hours acceptable as elective credits.

Teaching Certificate

No teaching certificate will be issued to graduating seniors except upon the recommendation of the College faculty.

Grade-Point Averages

The academic standing of each student is computed by the Registrar at the end of every semester. The following table represents the rating scale:

- A — 4 quality-points
- B — 3 quality-points
- C — 2 quality-points
- D — 1 quality-point
- F — 0 quality-point

To qualify for the degrees of Bachelor of Science and Bachelor of Arts, a student must have earned a minimum cumulative quality-point average of 2.00. Semester cumulative minima are as follows:

	Cumulative Minimum for good standing	Cumulative Minimum for probationary standing
Freshmen, end of first semester	1.35	1.15
Freshmen, end of second semester	1.60	1.35
Sophomores, end of first semester	1.80	1.60
Sophomores, end of second semester	2.00	1.80
Juniors and Seniors, end of each semester	2.00	1.80

A student who fails to obtain the minimum for probationary standing for his class is dismissed from the College. Students whose cumulative grade-point averages fall below the minimum required for continuation in good standing and above the dismissal point are placed on academic probation the following semester. Failure to improve academically and inability to meet the minimum for good standing result in automatic dismissal from the College.

Any student whose semester average falls below 1.0 is automatically dismissed for at least one semester.

The Graduate School

Gorham State College has offered a graduate program since the summer of 1964. The graduate school is designed to meet the following objectives: (1) a fresh intellectual challenge; (2) an extended depth in scholarship; (3) a familiarity with current research methods and findings; (4) an enhanced professional and/or technical competence.

PROGRAMS

The following general categories of graduate interest are recognized:

1. Candidates for the degree of Master of Science in Education at Gorham State College.
2. Those who wish to pursue thirty hours of approved study beyond the bachelor's degree.
3. Those who seek renewal of certificates.
4. Those who seek credit for transfer to other institutions.

The graduate degree to be awarded is the Master of Science in Education. It may be attained, through either a thesis or non-thesis program, by completion of 33 credits, as follows:

Thesis Program

- 18 credit hours in general education courses (liberal arts — English, Mathematics, Psychology, Science and Social Science)
- 9 credit hours in professional education courses
- 3 credit hours for the completion of an approved thesis
- 3 credit-hour course in thesis preparation

Non-thesis Program

- 18 credit hours in general education courses (liberal arts — English, Mathematics, Psychology, Science and Social Science)
- 6 credit hours in professional education courses
- 3 credit hours in a research seminar in professional education sometime during last 12 hours of work
- 6 credit hours in courses to be selected by the student
- Comprehensive examinations

Specialized Industrial Arts Program

- 12-18 credit hours in general education
- 6 credit hours in professional education
- 6-12 credit hours in Industrial Arts
- 3 credit hours in a research seminar in professional education
- Comprehensive examinations

GRADUATE SCHOOL/EVENING COLLEGE

ADMISSION TO THE GRADUATE SCHOOL

Admission is selective in nature. The applicant will be judged on the basis of previous academic record and potentiality for graduate work.

Admission to Graduate Study

Application for admission to the Graduate Division should be made to the Dean of Graduate Studies. Candidates must submit transcripts of all undergraduate and graduate study, scores on the Miller Analogies Test, or the Graduate Record Examination, and three references. Upon admission to graduate study candidates will be assigned a major adviser. Within six months the candidate and his major adviser will submit a planned sequence of courses to the Dean of Graduate Studies.

Residence

All students enrolled either full or part-time are required to attend a minimum of two summer sessions at Gorham State College.

Course Load Limitations

No student may carry more than six semester credit hours of part-time study in a regular academic semester or in any six-week summer session.

Time Limitations

Students must fulfill all requirements for the graduate degree within eight years of the date of completion of their first graduate course, including transfer work.

Teaching Experience

Candidates with less than a 2.5 cumulative undergraduate record must complete one year of successful teaching before being considered for admission. They may be required to complete six additional hours of undergraduate work with "B" grades or better.

Transfer Credits

Graduate students may transfer a maximum of six semester credit hours into the Gorham graduate program.

Minimum Grade Requirements

For successful completion of the degree program, a student shall be required to obtain a "B" average for all courses. No grade below "C" in any course is acceptable.

Comprehensive Examinations

Comprehensive Examinations required of the non-thesis candidates shall be prescribed and administered by the Graduate Study Council.

The Evening College

The College conducts an Evening Division Program which serves the needs of students for higher education courses at the freshman and sophomore levels as well as adult extension courses of interest to the general community.

A person who has a high school education or its equivalent and who believes that he can pursue college work with profit is admitted to all evening courses for which there are no prerequisites.

The Evening College is designed to meet the needs of the following:

Recent high school graduates unable to attend day college because of limited enrollment quotas or for financial reasons.

Adults unable to attend college during day hours who wish to earn college credits.

Teachers in-service wishing to earn credits toward an undergraduate degree.

Adults interested in self-improvement but not concerned with a degree.



Listening Area — Bailey Hall Library

Enrollment in the Evening College is not in itself the equivalent of matriculation for a degree. Neither is enrollment an assurance of admission to day-college courses. Qualified Evening College students do, however, have priority in admission; if space can be found, they will be accommodated.

Course content, instructional levels, and grading standards in the Evening College are intended to be identical with those in the degree-program. Accordingly, credits earned in the Evening College may be submitted, upon the student's matriculation, toward a degree at this College or at another institution of his choice. Courses offered, each of which carries three semester-hours of credit are listed herewith:

Eng	100e - 101e	Ed	100e	Eng	250e
Ms	100e - 101e	FA	100e	Psy	200e
Sci	100e - 101e	FA	101e	Psy	300e
SS	100e - 101e	Fr	100e	SS	202e
Sci	200e - 201e	Eng	200e	SS	203e
SS	200e - 201e	Eng	210e		

See catalog for detailed course descriptions.

Undergraduate Summer Session

Gorham State College holds an annual Summer Session. It presents a balanced program of liberal arts and professional courses designed to meet the needs of undergraduates who are accelerating their program or removing deficiencies, high school graduates interested in academic enrichment and teachers seeking certification or renewal of same.

The Academic Programs

TEACHER EDUCATION

All curricula and programs require four years for completion. Upon graduation, the student receives the Bachelor of Science degree and the proper teaching certificate. The College prepares teachers in the following course programs:

Kindergarten-Primary

The Kindergarten-Primary curriculum qualifies students to teach in the kindergarten through grade eight, with emphasis on kindergarten through grade three.

General Elementary

The General Elementary curriculum qualifies graduates to teach grades kindergarten through eight, with emphasis on grades four through six.

Junior High

The Junior High curriculum qualifies students for teaching in a self-contained classroom in the upper elementary grades, or for departmental work in Junior High School. Special preparation is offered for positions in the fields of English, Mathematics, Science, and Social Sciences.

Secondary (7-12)

The Secondary curriculum qualifies graduates to teach grades seven through twelve in the fields of Biological Science, Science Area, English, History, Social Science Area, and Mathematics.

Art

The Art curriculum is the only approved program in state colleges in Maine for the preparation of art teachers and supervisors. Graduates of this program qualify to teach or supervise art in all grades of the public schools.

Industrial Arts

The Industrial Arts curriculum prepares teachers for the teaching of industrial arts in elementary and secondary schools. It is the only college program in the State of Maine in this specialized field.

Music

The Music curriculum qualifies graduates to teach or supervise vocal and instrumental music in all grades. It, too, is the only program of its kind in the State Colleges.

In addition to the regular curriculum all music majors will meet the following requirements:

1. Participation in at least two recitals a year, and presentation of solo recital in junior and senior year.
2. Fulfillment of minimum requirements in both voice and piano, regardless of major instrument.
3. Participation in at least two musical organizations without credit.

Core Requirements for Teacher Education

General Education

Every student is required to complete a minimum of 43 credit hours in general education, as follows:

	Credit Hours	Credit Hours
College Health		2
English		9
English Composition	(6)	
American Literature	(3)	
History and Appreciation of Art		3
History and Appreciation of Music		3
Mathematics (assigned)		3
Elements of Mathematics	(3)	
or		
Analytic Geometry and Calculus (math majors)	(4)	
Physical Education	(Two years)	2
Psychology		3
Science		7
Biological Science	(4)	
Physical Science	(3)	
Social Science		9
Modern Civilization	(3)	
Choice of 2 courses from the following:		
Ancient Civilization	(3)	
U. S. History (either half)	(3)	
Principles of Geography	(3)	
American Government	(3)	
Sociology	(3)	
Principles of Economics	(3)	
Speech		2
		<hr/> 43

Professional Education

Every student except those in Secondary Education is required to complete a minimum of 26 credit hours in professional education as follows:

	Credit Hours
The American School	2
Human Growth and Development	3
Philosophy of Education	3
Curriculum, Methods and Materials	6
Student Teaching	12
	<hr/> 26

In both general and professional education there are additional or special requirements which will be indicated in each curriculum as it is set forth.



Curriculum for Kindergarten-Primary Education Majors

General Education

All kindergarten-primary education majors are required to complete the basic forty-three credit hours in general education. The additional general education requirements are:

	Credit Hours
Social Science	6
Mathematics	3
Physical Science	3
Fundamentals of Art	2
Fundamentals of Music	2
Children's Literature	2
	<hr/> 18

Professional Education

All kindergarten-primary education majors complete the basic twenty-six hours plus nine additional credit hours. The complete professional program is as follows:

			Credit Hours
Ed	100	The American School	2
Psy	300	Human Growth and Development	3
Ed	300	Primary Curriculum, Methods and Materials	3
Ed	303	Primary Reading	3
Ed	305	Primary Arithmetic	3
Ed	308	Science and Health for the Primary School Teacher	2
Ed	401	Philosophy of Education	3
Ed	402	Student Teaching	12
Ed	403	Seminar in Primary Education	2
Ed	411	Measurement and Evaluation	2
			<hr/> 35



Curriculum for Elementary Education Majors

General Education

All elementary education majors are required to complete the basic forty-three credit hours in general education. Their additional requirements, the same as those for the kindergarten-primary curriculum, are eighteen credit hours.

Professional Education

All elementary education majors complete the basic twenty-six credit hours plus an additional nine credit hours. The full professional program follows:

			Credit Hours
Ed	100	The American School	2
Psy	300	Human Growth and Development	3
Ed	302	Elementary Curriculum, Methods and Materials	3
Ed	304	Elementary Reading	3
Ed	306	Elementary Arithmetic	3
Ed	310	Science and Health for the Elementary Teacher	2
Ed	401	Philosophy of Education	3
Ed	402	Student Teaching	12
Ed	404	Seminar in Elementary Education	2
Ed	411	Measurement and Evaluation	2

35

The basic curriculum course (Ed 302) provides the overall framework within which the specific courses offer instruction as to plans and unit work. Ed 302, 304, 306, and 310 are carefully planned to prevent undesirable duplication.

All students in the kindergarten-primary or elementary curricula are considered as education majors. In addition to the general and professional requirements they are required to complete two academic minors of eighteen credit hours each, or a major of thirty credit hours. General education requirements may be counted toward the major or the two minors.

Curriculum for Junior High Education

Most students will find either the Elementary Education Curriculum (K-8) or the Secondary Education Curriculum adequate for their needs. However, those who wish to be certified exclusively in grades seven through nine may pursue the Junior High Curriculum.

The general education requirements are the basic forty-three credit hours plus twelve hours (three in Science, six in Social Science and three in Mathematics). The professional education requirements are as follows:

			Credit Hours
Ed	100	The American School	2
Psy	300	Human Growth and Development	3
Ed	307	Junior and Senior High Reading	2
Ed	309	Secondary Curriculum (7-12)	3
Ed	401	Philosophy of Education	3
Ed	402	Student Teaching	12
Ed	405	Seminar in Secondary Education (7-12)	2
Ed	411	Measurement and Evaluation	2
		Methods Course in Major	3
		Methods Course in Minor	3
			<hr/>
			35

Thirty hour subject matter majors are available in English, History, Mathematics, Biological Science, Earth Science, and Physical Science. In addition, there are Science area and Social Science area majors of fifty hours. Specific requirements of these programs are available from the chairmen of the respective departments.

Curriculum for Secondary Education

General Education

Secondary Education majors must complete the basic general education requirements with exceptions which vary according to the specific programs which the students enter.

Professional Education

The following 21 hours are required:

			Credit Hours
Psy	300	Human Growth and Development	3
Ed	309	Secondary Curriculum (7-12)	3
		Methods Course in Major	3
Ed	402	Student Teaching	12
			<hr/>
			21

All students in the Secondary Education Curriculum are required to complete a major of 36 credit hours and a minor of 18-24 credit hours with the exception of area majors of 50 credits in Social Sciences or Science.

Methods courses do not count toward specific hour requirements of majors and minors.

It is possible to major in Biological Science, Science Area, English, Mathematics, History, and Social Sciences Area. A minor must be obtained in Biological Science, English, History, or Mathematics.

Program for English Majors and Minors

English Major, Secondary

FRESHMAN YEAR			Credit Hours
Eng	100-101	English Composition	6
SOPHOMORE YEAR			
Eng	200-201	English Literature I and II	6
Eng	210	American Literature	3
Eng	250	Speech	2
JUNIOR AND SENIOR YEARS			
Eng	352	Shakespeare	3
Eng	440	History of the English Language	3
Eng	351	Advanced Composition	
	or		
Eng	456	Creative Writing	2

The remainder of the 36 credit hours required to complete a major in English may be obtained from the following electives:

			Credit Hours
Eng	120	Introduction to the Theater	3
Eng	220	Introduction to Journalism	3
Eng	230	Oral Reading	3
Eng	240	Persuasion	3
Eng	321	Journalism for the Secondary School	3
Eng	360	World Literature I	3
Eng	361	World Literature II	3
Eng	364	Fundamentals of Directing	3
Eng	365	Fundamentals of Acting	3
Eng	366	The Augustans	3
Eng	380	Introduction to Linguistics	3
Eng	382	Chaucer, Spenser, Milton	3
Eng	385	Eighteenth and Nineteenth Century English Novel	3
Eng	390	Main Currents in American Literature	3
Eng	450	Nature of Poetry	2
Eng	451	The Short Story	2
Eng	452	Dramatic Production	3
Eng	453	English Drama, 1580-1642	3
Eng	454	Contemporary Literature	3
Eng	455	The Novel	2
Eng	457	Modern Drama from Ibsen to Ionesco	3
Eng	460	Fitzgerald, Hemingway, and Faulkner	3
Eng	461	Contemporary American Short Story	3
Eng	470	Literary Criticism	3
Eng	499	Independent Study in English	1-6

Also required, but not counting toward the 36 hours: Eng Ed 354: Teaching English in the Secondary School, 3 credit hours (must be taken in the junior year).

Secondary English Minor

Required: Eng 100-101, Eng 200-201, Eng 210, Eng 250, preferably two additional courses (Advanced Composition recommended).

English Minor (Kindergarten-Primary, Elementary, and Junior High).

Any 18 hours of required and elective English courses.

Program for History Majors and Minors

History Major, Secondary

Required:

			Credit Hours
SS	100-101	Ancient and Modern Civilizations	6
SS	200-201	U.S. History	6
SS	498	Historiography	3
			<hr/>
			15
Six hours of non-American History courses			6

Also required but not included in the total credits for the major:

SS Ed	361	Teaching Social Studies in the Secondary School	3
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Electives:

A minimum of 15 credit hours from the following:

			Credit Hours
SS	301	Maine History	2
SS	354	Diplomatic History of U.S. I	3
SS	355	Diplomatic History of U.S. II	3
SS	356	History of Russia	3
SS	357	History of the West	3
SS	358	The Bible	3
SS	363	20th Century U.S.	3
SS	364	Civil War and Reconstruction	3
SS	365	Soc. & Cult. Hist. U.S. to 1865	3
SS	366	Soc. & Cult. Hist. U.S. since 1865	3
SS	367	Colonial History of U.S.	3
SS	368	Seminar in American Character	3
SS	374	Introduction to African History	3
SS	375	Contemporary Africa	3
SS	385	Europe, 1500-1715	3
SS	387	French Revolution and Napoleon	3
SS	388	Europe and World in 19th Century	3
SS	392	Twentieth Century Europe	3
SS	394	History of the Far East to 1700	3
SS	395	History of the Far East since 1700	3
SS	400	History of England	3
SS	410	U. S. and the Far East	3
SS	460	History of Canada	3
SS	499	Independent Study in the Social Sciences	1-6

Secondary History Minor:

A minimum of 18 credit hours of required and elective history courses.

History Minor (Kindergarten-Primary, Elementary and Junior High.)

A minimum of 18 credit hours of required and elective history courses.



Program for Social Sciences Majors and Minors

Social Sciences Area Major

Required:

			Credit Hours
SS	100-101	Ancient and Modern Civilizations	6
SS	200-201	U.S. History	6
SS	202	Principles of Geography	3
SS	203	Sociology	3
SS	204	American Government	3
SS	300	Economics	3
SS	350	World Geography	3
			<hr/>
			27

Also required but not included in the total credits for the major:

SS Ed	361	Teaching Social Studies in the Secondary School	3
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Electives:

A minimum of 23 credit hours from all other departmental offerings.

Social Sciences Minor: Kindergarten-Primary, Elementary, and Junior High.

A minimum of 18 credit hours of required and elective social sciences courses.

Geography Minor:

A total of 18 credit hours of geography and geology courses.

Program for Mathematics Majors and Minors

Mathematics Major, Secondary

FRESHMAN YEAR			Credit Hours
Ms	150	Analytic Geometry and Calculus I	4
Ms	151	Analytic Geometry and Calculus II	4
Ms	173	Logic and Sets	3
SOPHOMORE YEAR			
Ms	250	Analytic Geometry and Calculus III	4
Ms	272	Real Numbers	3
Ms	260	Probability and Statistics 1	3
JUNIOR AND SENIOR YEARS			
Ms	350	Geometric Structures I	3
Ms	370	Abstract Algebra	3
Ms Ed	312	Teaching Mathematics in the Secondary School (7-12)	3

The remainder of the 36 hours required to complete a major in mathematics may be obtained from the following electives:

Ms	251	Calculus IV	4
Ms	261	Probability and Statistics II	3
Ms	351	Geometric Structures II	3
Ms	371	Linear Algebra	3
Ms	380	Theory of Numbers	3
Ms	390	Topology	3
Ms	471	Foundations of Mathematics	3
Ms	473	History of Mathematics	3

Secondary Mathematics Minor

Required: Ms 150, Ms 151, Ms 173, Ms 350, plus mathematics electives numbered ending in 50's or above to make at least 24 hours. (Ms 120 and Ms 121 may be accepted if necessary for the individual.)

Mathematics Minor (Kindergarten-Primary, Elementary and Junior High)

Any 18 hours of mathematics which may include:

Ms	100 and 101	Elements of Mathematics I and II	6
Ms	120	College Algebra	3
Ms	121	College Trigonometry	3
Ms	220	Introduction to Statistics	3
Ms	310	Basic Concepts of Algebra	3
Ms	311	Informal Geometry	3

Program for Biological Science Majors and Minors

Biological Science Major, Secondary

FRESHMAN YEAR

Choose two courses from the following:

			Credit Hours
Sci	250	Vascular Botany	4
Sci	251	Non-Vascular Botany	4
Sci	252	Invertebrate Zoology	4
Sci	253	Vertebrate Zoology	4

SOPHOMORE YEAR

Choose either

Sci	161-162	Physics I and II	
Sci	220-221	Chemistry I and II	8

SOPHOMORE, JUNIOR, AND SENIOR YEARS

Choose at least three courses from the following concepts courses:

Sci	157	Historical Geology	3
Sci	258	Ecology	3
Sci	259	Conservation of Natural Resources	3
Sci	366	History of Science	3
Sci	367	Physiology and Anatomy	3
Sci	420	Embryology	3
Sci	450	Genetics	3
Sci	451	Evolution	3
Sci	460	Comparative Anatomy	3

Select two courses from the following:

Sci	369	Microbiology	4
Sci	370	Ornithology	3
Sci	372	Ichthyology	4
Sci	400	Biological Techniques	3

Select Sci 161-162 Physics I and II, if not completed, OR Sci 220-221 Chemistry I and II, if not completed, PLUS four credits in Organic Chemistry.

Select Ms 220 Introduction to Statistics.

Select Sci Ed 360 Teaching Sciences in the Secondary School.

Biological Science Minor, Secondary

A minimum of 18 credit hours in basic and advanced Biology.



Program for Science Area Majors and Minors

The Science Area Major requires completion of a minimum of 50 credit hours and provides for a broad preparation in several fields. This major is intended primarily for those students planning to teach grades seven through nine.

Science Area Major, Secondary

	Credit Hours
FRESHMAN YEAR	
Sci 161-162	
or	
Sci 220-221	
SOPHOMORE YEAR	
Sci 200	
Physics I and II	
Chemistry I and II	8
Biological Science (If qualified by examination, the student may substitute an advanced course in Botany or Zoology)	4

SCIENCE AREA PROGRAM

FRESHMAN, SOPHOMORE, JUNIOR, AND SENIOR YEARS

Select at least 38 hours from the following:

			Credit Hours
Group A – 23 Credit Hours Required			
Sci	156	Physical Geology	3
Sci	157	Historical Geology	3
Sci	161	General Physics I	4
Sci	162	General Physics II	4
Sci	220	General Chemistry I	4
Sci	221	General Chemistry II	4
Sci	363	Astronomy	3
Sci	368	Meteorology	3

Group B – At least 8 credit hours

Sci	250	Vascular Botany choose one	4
Sci	251	Non-Vascular Botany	4
Sci	252	Invertebrate Zoology choose one	4
Sci	253	Vertebrate Zoology	4

Group C – At least 3 credit hours

Sci	259	Conservation of Natural Resources	3
Sci	366	History of Science	3

Electives:

Sci	258	Ecology	3
Sci	360	Structural Geology	3
Sci	367	Physiology and Anatomy	3
Sci	369	Microbiology	4
Sci	370	Ornithology	3
Sci	372	Ichthyology	4
Sci	373	Mineralogy	3
Sci	380	Organic Chemistry	4
Sci	400	Biological Techniques	3
Sci	420	Embryology	3
Sci	450	Genetics	3
Sci	455	Modern Physics	3

Science Minor – (Kindergarten-Primary, Elementary and Junior High)

Required:

Sci	100-101	Physical Science	6
Sci	200	Biological Science	4

Electives:

At least two courses from the following

Sci	156	Physical Geology	3
Sci	157	Historical Geology	3
Sci	258	Ecology	3
Sci	259	Conservation of Natural Resources	3
Sci	355	Natural Science	3
Sci	363	Astronomy	3
Sci	366	History of Science	3
Sci	367	Physiology and Anatomy	3
Sci	368	Meteorology	3



Curriculum for Art Education Majors

General Education

Art Education students are required to take the same basic general education courses outlined for all college students. In addition, 13 credit hours are elected from general education courses bringing the total to 56 credit hours.

Professional Education

Art Education majors are required to complete the same minimum number of professional education courses as all other students, except those in Secondary Education.

Area Specialization

The sequence of courses in Art is as follows:

			Credit Hours
Art	100,101		
	200-201	Foundations of Art	12
FA	102-103	Art Appreciation & History	6
Art	202, 302	Arts & Crafts	6
Art	203, 303	Drawing Techniques	6
Art	300, 400	Painting Techniques	6
Art	301	Graphics	3
Art	304	Three Dimensional Art	2
Art	305	Contemporary Art	3
Art Ed	300	Elementary Art Education	2
Art Ed	301	Secondary Art Education	2
Art	401	Aesthetics	3
Art	402	Advanced Problem in Art	3
Art Ed	400	Problems of Teaching & Supervision	4
			<hr/> 58

The Art Education Curriculum requires a total of 131 credit hours.

Art Education Curriculum

FRESHMAN YEAR

			Credit Hours
Eng	100-101	English Composition	6
Sci	100a	Physical Science Concepts	3
Sci	200	Biological Science	4
SS	—	Social Sciences Elective	3
Ms	100	Elements of Mathematics I	3
PE	100-101	Physical Education	1
FA	102-103	Art Appreciation and History	6
Ed	100	The American School	2
Art	100-101	Foundations of Art	6
			<hr/> 34

SOPHOMORE YEAR

Eng	210	American Literature	3
SS	—	Social Sciences Electives	6
Psy	200	General Psychology	3
Eng	250	Speech	2
PE	102	College Health	2
PE	200-201	Physical Education	1
Art	200-201	Foundations of Art	6
Art	202	Arts & Crafts I	3
Art	203	Drawing Techniques I	3
Elective			3
			<hr/> 32

JUNIOR YEAR

FA	101	Music Appreciation & History	3
Psy	300	Human Growth & Development	3
Art Ed	300	Elementary Art Education	2
Art Ed	301	Secondary Art Education	2
Art	303	Drawing Techniques II	3
Art	300	Painting Techniques I	3
Art	301	Graphics	3
Art	302	Arts & Crafts II	3
Art	304	Three Dimensional Art	2
Art	305	Contemporary Art	3
Electives			6
			<hr/> 33

SENIOR YEAR

Ed	401	Philosophy of Education	3
Ed	402	Student Teaching	12
Art Ed	400	Problems of Teaching & Supervision	4
Art	400	Painting Techniques II	3
Art	401	Aesthetics	3
Art	402	Advanced Problem in Art	3
Electives			4
			<hr/> 32

Curriculum for Music Education Majors

General Education

Music Education students are required to complete the same basic general education requirements as all other students.

Professional Education

In addition to the basic 26 credit hours in professional education required of all students, except those in Secondary Education, Music majors must complete the following:

		Credit Hours
Mus Ed 200	Brass Class	2
Mus Ed 201	Woodwind Class	2
MusEd 300-301	Music Education Methods	6
Mus Ed 302-303	String Class	4
Mus Ed 400	Administration & Supervision	3
		<hr/>
		17

Area Specialization

The Music content program consists of the following:

Mus 102, 103, 202, 203	Theory	12
Mus 104, 105, 206, 207, 306, 307	Applied Music	24
Mus 106, 107, 208, 209, 308, 309, 403	Vocal Ensemble	3½
Mus 108, 109, 210, 211, 310, 311, 404	Recital Class	3½
Mus 100, 101, 200, 201,	History of Music	12
Mus 302, 303	Instrumental and Vocal Conducting	4
Mus 400	Orchestration	3
		<hr/>
		62

The Music Education Curriculum requires a total of 139 hours.



Music Education Curriculum

FRESHMAN YEAR

			Credit Hours
Eng	100-101	English Composition	6
Ed	100	The American School	2
Ms	100	Elements of Math I	3
Mus	100-101	History of Music I and II	6
Mus	102-103	Theory I and II	6
Mus	104-105	Applied Music	8
Mus	106-107	Vocal Ensemble	1
Mus	108-109	Recital Class	1
PE	100-101	Physical Education	1
			<hr/> 34

SOPHOMORE YEAR

FA	100	Art Appreciation and History	3
Mus	200-201	History of Music III and IV	6
Mus	202-203	Music Theory III and IV	6
Mus Ed	200	Woodwind Class	2
Mus Ed	201	Brass Class	2
Mus	206-207	Applied Music	8
Mus	208-209	Vocal Ensemble	1
Mus	210-211	Recital Class	1
PE	200-201	Physical Education	1
Psy	200	General Psychology	3
Psy	300	Human Growth and Development	3
			<hr/> 36

JUNIOR YEAR

Mus Ed	300-301	Music Education Methods	6
Mus Ed	302-303	String Class	4
Mus	302	Instrumental Conducting	2
Mus	303	Vocal Conducting	2
Mus	306-307	Applied Music	8
Mus	308-309	Vocal Ensemble	1
Mus	310-311	Recital Class	1
Sci	100a	Physical Science Concepts	3
Sci	200	Biological Science	4
SS	—	Social Sciences Elective	3
PE	102	College Health	2
			<hr/> 36

SENIOR YEAR

Ed	401	Philosophy of Education	3
Ed	402	Student Teaching	12
Eng	210	American Literature	3
Eng	250	Speech	2
Mus Ed	400	Music Administration and Supervision	3
Mus	400	Orchestration	3
Mus	403	Vocal Ensemble	$\frac{1}{2}$
Mus	404	Recital Class	$\frac{1}{2}$
SS	—	Social Sciences Electives	6
			<hr/> 33

Curriculum for Industrial Arts Education Majors

General Education

Industrial Arts students are required to take the same basic core of general education courses outlined for all college majors. In addition, they must complete the following:

			Credit Hours
Ms	101	Elements of Mathematics II	3
IA	460	Modern Industry	3
		Electives	6-9

The total number of credit hours in the general education sequence is 55-58.

Professional Education

The minimum number of professional education courses required of industrial arts majors is the same as that for other majors, except those in Secondary Education. The Curriculum, Methods and Materials course, for 6 credits, consists of the following:

			Credit Hours
IA Ed	300	Analysis and Course Development	3
IA Ed	350	Methods and Materials of Instruction	3

Other courses required in the professional sequence are:

IA Ed	404	Seminar in Teaching	2
IA Ed	450	Laboratory Organization and Management	3

The total number of credit hours in professional education is 33.

Technical Education

To be qualified to teach in the comprehensive general laboratories of the State, all majors must complete the following:

IA 103	Introduction to Technology	3
	Manufacturing and Construction Industries	
IA 151, 205, 206, 208*, 305, 306		14
	Power-Transportation Industries	
IA 207, 307		6
	Electrical-Electronics Industries	
IA 208, 308		6
	Graphic Communication Industries	
IA 104, 150, 152, 204, 309		10
	Service Industries	
IA 207*, 306*, 307*, 308*		
	Electives	
IA 410, 411, 412, 413		3
IA 450 through 458		4-6
*Unit within courses indicated		

The total number of credit hours both required and elective in the technical sequence is 46-48.



The Industrial Education and Technology Center

Industrial Arts Curriculum

FRESHMAN YEAR

				Class Credit						Class Credit		
				Hours	Hours					Hours	Hours	
Eng	100	English I	3	3	Eng	101	English II	3	3			
Ms	100	Mathematics	3	3	Ms	101	Mathematics II	3	3			
PE	102	Health	2	2	Sci	100a	Phys. Sc. Concepts	4	3			
PE	100	Physical Education	2	½	PE	101	Phys. Education	2	½			
FA	100	Art Appr. & Hist.	3	3	Ed	100	American School	2	2			
IA	103	Intr. to Technology	6	3	IA	150	Graphic Arts I	4	2			
IA	104	Graphics I	4	2	IA	151	Crafts Ind. I	4	2			
			<hr/>	<hr/>	IA	152	Graphics II	4	2			
			23	16½					<hr/>	<hr/>		
									26	17½		

SOPHOMORE YEAR

Sci	200	Biological Science	6	4	FA	101	Music Apprec.	3	3
Psy	200	General Psychology	3	3	Eng	210	Amer. Literature	3	3
SS	—	Elective	3	3	Eng	250	Speech	2	2
PE	200	Physical Education	2	$\frac{1}{2}$	SS	—	Elective	3	3
IA	204	Graphics III	4	2	PE	201	Physical Education	2	$\frac{1}{2}$
IA	205	Wood Tech. I	6	3	IA	207	Power & Trans. I	6	3
IA	206	Metal Tech. I	6	3	IA	208	Electronics I	6	3
(IA	207	Power & Trans. I	6	3)	(IA	205	Wood Tech. I	6	3)
(IA	208	Electronics I	6	3)	(IA	206	Metal Tech. I	6	3)
			30	18 $\frac{1}{2}$			25	17 $\frac{1}{2}$	

INDUSTRIAL ARTS CURRICULUM

JUNIOR YEAR

Psy	300	Human Growth & Dev.	3	3	SS	—	Elective	3	3
IA Ed	300	Anal. & Course Dev.	3	3	IA Ed	350	Methods & Mat.	4	3
IA	305	Wood Tech. II	6	3	IA	307	Power & Trans.	6	3
IA	306	Metal Tech. II	6	3	IA	308	Electronics II	6	3
(IA	307	Power & Trans. II	6	3)	(IA	305	Wood Tech. II	6	3)
(IA	308	Electronics II	6	3)	(IA	306	Metal Tech. II	6	3)
IA	309	Graphic Arts II	4	2	(Minor)		Tech. Elective	4	2
Free		Elective (Tech. or G.E.)	4(3)	2(3)			G.E. Elective	3	3
				26(25)					16(17)
									26 17

SENIOR YEAR

Ed	402	Student Teaching	12	12	IA	460	Mod. Industry	3	3
Ed	411	Measurement and Eval.	2	2	Ed	401	Phil. of Educ.	3	3
IA Ed	404	Seminar in Teaching	2	2	IA Ed	450	Lab. Org. & Mgt.	3	3
				16	(Major)		Tech. Elective	6	3
					(Minor)		Tech. Elective	4	2
							G.E. Elective	3	3
									22 17

Technical Electives

Major:	IA 410	Wood Tech. III
	IA 411	Metal Tech. III
	IA 412	Power & Trans. III
	IA 413	Electronics III
	(6 class	hours and 3 semester hours)
Minor:	IA 450	Graphics IV
	IA 451	Materials Testing
	IA 452	Instrumentation
	IA 453	Fluid Power
	IA 454	Graphic Arts III
	IA 455	Graphic Arts IV
	IA 456	Crafts Industries II
	IA 457	Plastics Technology
	IA 458	Metal Tech. IV
	(4 class	hours and 2 semester hours)

Social Sciences Electives

SS	100	Ancient Civilization
SS	101	Modern Civilization
SS	200	U. S. History
SS	202	Principles of Geography
SS	203	Sociology
SS	204	American Government
SS	300	Economics

Vocational Industrial Education

The Vocational-Industrial curriculum prepares instructors for the teaching of vocational-industrial and/or technical subjects in the high schools and post-secondary schools of Maine. Candidates for the degree in this curriculum must be eligible for vocational teaching certification. Consult the Dean of Academic Affairs for further information.

Clinical Training in Manual Arts Therapy

An opportunity is provided junior and senior Industrial Arts majors to participate in a clinical training program provided by Veterans Administration Hospital, Brockton, Massachusetts. Two hundred and forty hours, or six weeks, to be spent at hospital, at convenience of student. Transportation not furnished, but room and board provided at no expense. Consult department chairman for further details.



The Liberal Arts Program

Upon graduation the student receives the Bachelor of Arts Degree. The College offers majors in English, History and Mathematics. The Liberal Arts candidate is required to complete 47 to 63 credit hours in general education as follows:

	Credit Hours	Credit Hours
English		12
Literature	(6)	
Fine Arts		6
English Composition	(6)	
Art Appreciation and History	(3)	
Music Appreciation and History	(3)	
Foreign Language ¹		0-14
Mathematics or Logic		3
Philosophy		3
Physical Education	(Two Years)	2
Psychology		3
Science (one year of laboratory science)		6-8
Social Sciences		12
History of Western Civilization	(6)	
Two courses ²	(6)	

Major requirements — at least thirty credits and a maximum of forty-eight credits beyond the courses used to satisfy the core requirements.

¹ Foreign Language — proficiency in one foreign language through the intermediate level. Competency and placement examinations will be given.

² Social Sciences — six credits to be chosen from basic freshmen and sophomore courses in Political Science, Sociology, Anthropology, Economics, Geography, and History.

Freshman Course Requirements

Freshman course requirements in Kindergarten-Primary, General Elementary, Junior High School, Secondary (7-12) and Liberal Arts.

KINDERGARTEN-PRIMARY — GENERAL ELEMENTARY MAJOR

Course			Credit Hours
Eng	100-101	English Composition	6
Ms	100-101	Elements of Mathematics I, II	6
Sci	100-101	Physical Science	6
FA	100	Art Appreciation and History	3
FA	101	Music Appreciation and History	3
SS	101	Modern Civilization	3
Ed	100	The American School	2
PE	102	College Health	2
PE	100-101	Physical Education	1
			<hr/> 32

JUNIOR HIGH — SECONDARY (7-12)

English Major

Course			Credit Hours
Eng	100-101	English Composition	6
Ms	100	Elements of Mathematics I	3
Sci	100	Physical Science	3
FA	100	Art Appreciation and History	3
FA	101	Music Appreciation and History	3
SS	101	Modern Civilization	3
PE	102	College Health	2
PE	100-101	Physical Education	1
			<hr/> 24
Electives			8 or 9
			<hr/> 32 33

JUNIOR HIGH — SECONDARY (7-12)

Mathematics Major

Course			Credit Hours
Eng	100-101	English Composition	6
Ms	150-151	Analytic Geometry and Calculus I, II	8
Ms	173	Logic and Sets	3
Sci	100	Physical Science	3
FA	100	Art Appreciation and History	3
FA	101	Music Appreciation and History	3
SS	101	Modern Civilization	3
PE	102	College Health	2
PE	100-101	Physical Education	1
			<hr/> 32

FRESHMAN COURSE REQUIREMENTS

HISTORY – SOCIAL SCIENCES MAJOR

Course			Credit Hours
Eng	100-101	English Composition	6
FA	100	Art Appreciation and History	3
FA	101	Music Appreciation and History	3
Ms	100	Elements of Mathematics I	3
Sci	100	Physical Science	3
SS	100-101	Ancient and Modern Civilization	6
PE	102	College Health	2
PE	100-101	Physical Education	1
			<hr/>
			27
Electives			5 or 6
			<hr/>
			32 33

BIOLOGICAL SCIENCE MAJOR

Course			Credit Hours
Eng	100-101	English Composition	6
Ms	100	Elements of Mathematics I	3
FA	100	Art Appreciation and History	3
FA	101	Music Appreciation and History	3
SS	101	Modern Civilization	3
PE	102	College Health	2
PE	100-101	Physical Education	1
			<hr/>
Required (choose two)			21
Sci	250	Vascular Botany	4
Sci	251	Non-vascular Botany	4
Sci	252	Invertebrate Zoology	4
Sci	253	Vertebrate Zoology	4
			<hr/>
			8
			<hr/>
Elective			29
			3
			<hr/>
			32

SCIENCE AREA MAJOR

Course			Credit Hours
Eng	100-101	English Composition	6
Ms	100	Elements of Mathematics I	3
FA	100	Art Appreciation and History	3
FA	101	Music Appreciation and History	3
SS	101	Modern Civilization	3
PE	102	College Health	2
PE	100-101	Physical Education	1
			<hr/>
			21
Register for			
Sci	161-162	Physics I and II	8
or			
Sci	220-221	General Chemistry I and II	8
			<hr/>
			29
Elective			3
			<hr/>
			32

FRESHMAN COURSE REQUIREMENTS

LIBERAL ARTS MAJOR

English

Course			Credit Hours
Eng	100-101	English Composition	6
FA	100	Art Appreciation and History	3
FA	101	Music Appreciation and History	3
PE	100-101	Physical Education	1
Sci		1 year Lab Science	6-8
*Fr	100-101	Elementary French	8
		or	
Fr	200-201	Intermediate French	6
**Fr	300-301	French Composition and Conversation	6
			25-29
			+ (3.7 elective credits)

History

Course			Credit Hours
Eng	100-101	English Composition	6
FA	100	Art Appreciation and History	3
FA	101	Music Appreciation and History	3
SS	100-101	Ancient and Modern Civilization	6
PE	100-101	Physical Education	1
Sci		1 year Lab Science	6-8
*Fr	100-101	Elementary French	8
		or	
Fr	200-201	Intermediate French	6
**Fr	300-301	French Composition and Conversation	6
			31-35

Mathematics

Course			Credit Hours
Eng	100-101	English Composition	6
FA	100	Art Appreciation and History	3
		or	
FA	101	Music Appreciation and History	3
Ms	150-151	Analytic Geometry and Calculus I and II	8
Ms	173	Logic and Sets	3
PE	100-101	Physical Education	1
Sci		1 year Lab Science	6-8
*Fr	100-101	Elementary French	8
		or	
Fr	200-201	Intermediate French	6
**Fr	300-301	French Composition and Conversation	6
			33-37
*Fr	100-101	By examination or permission of the instructor students may be waived from Fr 100-101 Elementary French.	
**Fr	300-301	Course registration with the approval of the instructor for students who have completed Fr 200-201 or three or more years of high school French.	



Courses of Study



Art

Associate Professor Schoneberg; Assistant Professor Miner; Mr. Moore, Mrs. Sawtelle.

FA 100 Art Appreciation and History

Mr. Miner, Mr. Moore

Key periods of artistic creativity illustrated by slides and reproductions. Lectures, text, and readings point up the richness and diversity of aesthetics as a basis for mature understanding. Special attention to the visual arts of the Egyptian, Greek, Medieval, Renaissance, and Baroque periods. The relationship between visual images and such cultural factors as politics, religion, literature, and psychology. Materials for study include architecture, sculpture, painting, and selected examples of ceramics, graphic and decorative arts.

Three credit hours

FA 102-103 Art Appreciation and History

Mr. Miner

A survey of art history for students in the Art Education program. Each epoch is considered in greater depth than in FA 100, special attention being directed to the teaching of art. Divergent viewpoints of the art historian, art critic, and art teacher; experiments, by means of writing assignments, with each of these approaches. An overview of the visual arts, showing the interrelationship of cultural values, art techniques, and major art works.

Six credit hours

(Three credits each semester)

FA 200 Art Fundamentals

Mrs. Sawtelle

An introduction to the elements and principles of design and color, and their application to projects suitable for art work in the elementary grades.

Two credit hours

Art 100-101, 200-201 Foundations of Art

Mr. Miner, Mr. Moore

The grammar and vocabulary of visual expression, communicated through a series of problems which encourages the development of personal expression and technical competence.

Art 100-101: The control of pictorial space and form; expression in dark and light, its materials and techniques; color theory and experimentation.

Art 200-201: The areas of design; artistic mastery; expression in three dimensions.

Twelve credit hours

(Three credits each semester)

ART

Art 202 Arts and Crafts I

An introduction to the handicrafts: the use of simple tools and materials found in the typical elementary classroom.

Mr. Monteleone

Three credit hours

Art 203 Drawing Techniques I

An introduction to the language of drawing as it has been, and is, used in problems of communication, design, and expression. Introduction to the principles of graphic expression in all black-and-white media.

Mr. Schoneberg

Three credit hours

Art 260 Handcrafts for the Elementary Teacher

An elective course using materials found in the average elementary school and scrap materials which children can bring from home for making three dimensional projects to be used as gifts, decorations, sand-table projects, dioramas, puppet shows, etc.

Mrs. Sawtelle

Two credit hours

Art 270 Watercolor and Wash Media

Watercolor painting, watercolor, wash, dry-brush, materials of wash painting, dry and tube colors, mixing colors; still-life subjects, landscape subjects, figure subjects; pen and ink drawing, pen and ink painting, ink and wash drawing and painting; gouache painting (casein painting); techniques of the water media and their use in art; development of compositions, sketching from life in sketchbooks; references to the works in watercolor, ink, and wash media of the master artists. Prerequisite: Drawing I. Open to nonmajors.

Mr. Schoneberg

Three credit hours

Art 300 Painting Techniques I

An introduction to painting, specifically the technical and formal problems of controlling a medium. The traditional functions of painting are explored both as an imaginative and technical stimulus for the student. Expressionistic, didactic, primitive, and experimental modes of past masters are contrasted with the subjective and objective categories of contemporary artists.

Mr. Schoneberg

Three credit hours

Art 301 Graphics

Problems in the print media: woodcut, serigraph, lithography, and etching; layout, illustration, and letter design. The usefulness of these communication media for poster, yearbook, and other school needs is emphasized.

Mr. Moore

Three credit hours

Art 302 Arts and Crafts II

Advanced projects in the handicrafts, involving art metalwork, ceramics, leathercraft, the tile arts, etc.

Three credit hours

Art 303 Drawing Techniques II

Advanced study of the language of drawing; special emphasis on technical experimentation and the use of a variety of media. Application of concepts of visual form to figure, object, and landscape problems. Prerequisite: Art 203.

Three credit hours

Art 304 Three-Dimensional Art

An examination of the problems of motion, balance, rhythm, and expression in the art of sculpture and architecture. A series of problems designed to clarify the relationships between three-dimensional and two-dimensional organization. The principles of the additive and subtractive approaches to sculpture. Three-dimensional techniques for use in the schools: imagination and craftsmanship as means of stimulating creative expression in mass and space.

Mr. Miner

Two credit hours

Art 305 Contemporary Art

European and American painting, sculpture, and architecture from 1850 to the present. A study of the changes in artistic form which characterize the modern movement. The course also surveys the emergence of American art from its European background.

Mr. Schoneberg

Three credit hours

ART

Art 310 Drawing Techniques III

Drawing from the life model; the human form in quick sketch, sustained, and active pose; technique of line, form in space, value, tonality, gesture, movement, concentration, weight, anatomy, portraiture, composition, multiple forms, references to ancient and modern master drawings, chiaroscuro in both black and white and color dry media, reinvestigation of life through vision. Prerequisite: Drawing I. Open to junior and senior art majors. Six class hours.

Mr. Schoneberg

Three credit hours

Art 325 Renaissance and Baroque Art

A study of what has been called the "greatest age of art." Europe during the seventeenth and eighteenth centuries; art during the counter reformation; classicism and intellectualism; the golden age of Dutch art; art as decoration and revolt. The arts are viewed in relation to the dominant political, religious, and philosophic movements leading up to the modern era. Slides, museum trips, lecture, and discussion. Open to nonmajors.

Mr. Miner

Three credit hours

Art 400 Painting Techniques II

Advanced problems and instruction: a course centered on original student work and aimed at deepening the student's understanding of the artistic production of others as well as developing his own expressive competence to a professional degree. Prerequisite: Art 300.

Mr. Schoneberg

Three credit hours

Art 401 Aesthetics

An investigation into theories of art and beauty in the writings of philosophers, painters, writers, and critics that form the basis of our understanding of the fine arts. Readings and discussion of writers from ancient to modern times.

Mr. Miner

Three credit hours

Art 402 Advanced Problem in Art

An opportunity for the student to do advanced independent study in the field of his particular interest. Completion of a unit or series of related projects in art education is required.

The Staff

Three credit hours

Art 499 Independent Study in Art

To provide juniors and seniors who have demonstrated critical and analytical capability an opportunity to pursue a project independently, charting a course and exploring an area of interest within their major field, bearing upon it previous course experiences and emerging with an intellectually sound, coherent syntheses, or an artistic or technical creation reflecting a high caliber of performance.

One to three credit hours

Art Ed 300 Elementary Art Education

A study of growth and development in the creative abilities of children; how to utilize art projects to foster initiative, imagination, cooperation, and appreciation in the elementary classroom.

Mrs. Sawtelle

Two credit hours

Art Ed 301 Secondary Art Education

A study of classroom experiences in art on the secondary level; introduction to units of teaching designed to enrich the general secondary curriculum.

Mrs. Sawtelle

Two credit hours

Art Ed 400 Problems of Teaching and Supervision

Intended primarily for student-teachers of art, this course takes the form of discussion and problem-solving. Students endeavor to arrive at a basic philosophy of art education and a tentative instructional technique.

Mrs. Sawtelle

Four credit hours



Education and Psychology

Professor Southworth; Associate Professors Bowman, Cobb, Hempel, Littlefield, E.; Paradise, Mildred Peabody; Assistant Professors Costello, M.; Zax; Mr. Davis, Mr. Fickett, Mr. Milbury*

*On leave of absence, 1967-68.

Ed 100 The American School

Miss Littlefield, Mr. Zax

An introduction to public education — its history, organization, functions and issues. Elementary and secondary curricula, including special areas are considered, as well as the social, economic, and professional aspects of teaching. School visitations provide opportunities for self-evaluation and direction.

Two credit hours

Ed 300 Primary Curriculum: Methods and Materials

Miss Mildred Peabody

A core course which analyzes curriculum, methods, and materials from kindergarten through third grade, with special attention to language arts and social studies. Topics include programming, types of curricula, evaluation, development of units, lesson planning, grouping, sociometric procedures, reporting to parents, analysis of textbooks, and audio-visual techniques. Observation, participation, and supplementary guest speakers.

Three credit hours

Ed 302 Elementary Curriculum: Methods and Materials

Mrs. Costello

A basic course which emphasizes language arts and social studies in the intermediate grades. Includes programming, types of curricula, evaluation, development of units, lesson planning, grouping, sociometric procedures, reporting to parents, analysis of textbooks, and audio-visual techniques. Observations and resource speakers are included.

Three credit hours

EDUCATION

Ed 303 Primary Reading

Miss Mildred Peabody

Approved methods in the teaching of reading at all levels, with special emphasis on the beginning reading program. Comparisons of the various reading procedures used currently, including the developmental program, independent reading, grouping, phonetic approach, reading readiness, study skills, ungraded reading, and remedial problems. Introduction to the tachistoscope, accelerator, and reading laboratory. Analysis of recent textbooks in the Curriculum Laboratory. Observation and participation.

Three credit hours

Ed 304 Elementary Reading

Mr. Fickett

Approved methods in the teaching of reading, with particular stress on word-analysis and the development of reading study skills. Comparison of current reading procedures, including the development program, independent reading, grouping, phonetics, and remedial reading. Use of the tachistoscope, accelerator, and reading laboratories; analysis of recent intermediate-grade textbooks in the Curriculum Laboratory. Observation and participation.

Three credit hours

Ed 305 Primary Arithmetic

Miss Mary Peabody

The new approach in teaching arithmetic in primary grades, overview of all levels, and applied work in primary grade area. Preparation of materials; study of current textbooks and experimental programs; analysis of content needed to provide orientation in structure, properties, sets, number systems, and other basic themes of modern mathematics.

Three credit hours

Ed 306 Elementary Arithmetic

Miss Mary Peabody

This course closely parallels Ed 305 except that it is concerned with teaching arithmetic in the elementary grades.

Three credit hours

Ed 307 Junior and Senior High Reading

Mr. Fickett

Currently approved methods in the teaching of reading. A comparison, with emphasis on continuity, of various reading procedures. Word analysis and reading study skills as they apply to each subject-matter area of the junior high school.

Two credit hours

Ed 308 Science and Health for the Primary Teacher

Mrs. Kerr

An inductive, scientific approach to science and health, from kindergarten through third grade; materials, experiments, and themes appropriate to this level; use of a teaching team to interrelate health and physical education.

Two credit hours

Ed 309 Secondary Curriculum (7-12)

Mr. Cobb, Mr. Zax, Mr. Fickett

Involves the historical and philosophical perspective of secondary education in the United States; school law, services, and professional organizations; classroom procedures, including lesson planning, discipline, grouping, and evaluation; curriculum development, objectives, and organizational patterns. Visitations in secondary schools are a part of the course.

Three credit hours

Ed 310 Science and Health for the Elementary Teacher

Mrs. Kerr

Problems and methods of teaching science and health. Current practices and teaching materials are emphasized and evaluated.

Two credit hours

Ed 350 Maine School Law

Mr. Cobb

A review and interpretation of those statutes which directly affect the teacher. The case-study method is employed to cover such topics as certification, employment, tenure, dismissal, professional rights and responsibilities of the teacher, liability, curriculum requirements, attendance and classification of pupils, church-state relationship, and pupil control.

Two credit hours

Ed 401 Philosophy of Education

Mr. James Whitten

A course designed to examine the major historic and current viewpoints about the nature, aims, and practices of education. The relationship of philosophy to personal and professional maturity is the theme of the course.

Three credit hours

EDUCATION

Ed 402 Student Teaching

The Staff

For one semester of the senior year all students are assigned to full-time student teaching under careful supervision. The semester is divided into two terms to provide opportunities to teach in two different situations; for this purpose the Millett Laboratory School, the Village Elementary School, and other cooperating schools are utilized. Student teaching embraces the following categories: Kindergarten-Primary, General Elementary, Junior-Senior High School, Music, Art and Industrial Arts.

Twelve credit hours

Ed 403 Seminar in Primary Education

Miss Mildred Peabody

Consideration of such critical problems in primary education as school law in relation to the primary teacher; grouping and individual differences; basic organization of student teaching; the primary teacher in relation to community, school, and state. Faculty members from special areas as well as visiting lecturers participate.

Two credit hours

Ed 404 Seminar in Elementary Education

Mr. Hempel, Mrs. Costello

A study of basic issues in elementary education: school law; professional and ethical procedures; organization of student teaching; and teacher relationships with schools, community, and state.

Two credit hours

Ed 405 Seminar in Junior and Senior High School Education

Mr. Cobb, Mr. Zax

The major professional concerns of the junior and senior high school teacher: school law; professional and ethical procedures; organization of student teaching; and teacher relationships with school, community, and state.

Two credit hours

Ed 411 Measurement and Evaluation

Mr. Bowman, Mr. Cobb

Construction, selection, and use of educational achievement tests, including diagnostic and survey instruments. Skill in writing essay and objective types is developed. An inquiry into the validity and reliability of typical standardized tests. Elements and uses of statistics, tabulation of data, measures of central tendency, variability, and correlation.

Two credit hours

Ed 452 Remedial Reading

Miss Mildred Peabody

An empirical approach, relating class discussions to clinical observation. Methods by which the teacher copes with individual difficulties are explored. Testing and diagnostic work are studied and applied to subject-groups. Prerequisite: a grade of A or B in Ed 303, 304, or 307.

Three credit hours

Ed 453 Preparation of Classroom Instructional Material

Mr. Davis

A lecture-laboratory series which involves students in the creation of instructional materials. Techniques include the dry mounting of flat pictorial materials, both backing of pictorial materials, professional-quality lettering, rudimentary photography and processing (including use of the darkroom), and the production, by several techniques, of transparent projectals. Classes limited to 18. No prerequisite.

Two or Three credit hours

Ed 454 Advanced Production of Audio-Visual Materials

Mr. Davis

Further sophistication of insight and refinement of skills in the local production of instructional materials. Prerequisite: Successful completion of Ed. 453. Limited to twelve students.

Three credit hours

Ed 499 Independent Study in Education

To provide juniors and seniors who have demonstrated critical and analytical capability an opportunity to pursue a project independently, charting a course and exploring an area of interest within their major field, bearing upon it previous course experiences and emerging with an intellectually sound, coherent synthesis, or an artistic or technical creation reflecting a high caliber of performance.

One to three credit hours

PSYCHOLOGY

Psy 200 General Psychology

Mr. Southworth, Mr. Paradise

An introductory course emphasizing the development of a psychological vocabulary, a way of thinking, and the application of basic principles to everyday living. Major topics include motivation, emotions, intelligence, effective learning and thinking.

Three credit hours

Psy 300 Human Growth and Development

Mr. Bowman

A study of significant elements in the physical, mental, emotional, and social make-up of children as they develop from infancy to adolescence. Selected case studies and projects in the application of basic principles of growth and development to problems of adjustment to school, home, and community. Special attention is given to the developmental tasks of school-age children.

Three credit hours

Psy 401 Psychology of the Self

Mr. Southworth

An exploration of the development of the self as it is influenced by learning perception, teaching and growth. Learning techniques include extensive reading, participation in group discussions and introspection.

Three credit hours

Psy 402 Group Dynamics

Mr. Southworth

Analysis of the meaning of small group dynamics, including an understanding of the roles individuals play within various groups. Problems of leadership are considered and techniques and materials useful under many circumstances are examined.

Three credit hours

Psy 405 Psychology of Learning

Mr. Paradise

An analysis of the major theories of learning with emphasis upon heredity and environment. Descriptions of neuroses, and psychoses and methods of identifying them.

Three credit hours

Psy 410 Abnormal Psychology

Mr. Paradise

A study of abnormal behavior — its history, causes, prevention and treatment. Description of neuroses and psychoses and methods of identifying them. Case studies are included to illustrate each type of illness.

Three credit hours





English

Professor Hanna; Associate Professors Rootes, Weeks; Assistant Professors Rosen, Rutherford, Sawyer; Mr. Bowden, Mr. O'Reilly, Mr. Robbins, Mr. Smith, Mr. Vincent.

Eng 100-101 English Composition

The Staff

The basic freshman course, uniting the principles of written composition, the growth and structure of language, and the critical evaluation of literary genres. Practice in writing, with special attention to mechanics and style followed in the second semester by the study of poetry, drama, and the short story. Preparation for advanced courses in English through the refinement of reading habits and tastes.

Six credit hours

(Three credits each semester)

Mr. Rootes

Eng 120 Introduction to the Theatre

A basic course in theatre. Designed to familiarize the student with plays of various genre, periods, and styles and the elements of production. Includes the influence of playwrights, production, theatres, personalities, dramatic criticism, and developments in the fields of dramatic art as seen in theatre, cinema, and television.

Three credit hours

Mr. Hanna, Mr. Weeks

Eng 200 English Literature I

A survey course in English literature from its beginning through the eighteenth century. Intensive readings in Chaucer, Spenser, Shakespeare, Bacon, Donne, Milton, Dryden, Swift, Pope, Johnson, and Boswell. Required of English majors and minors.

Three credit hours

Mr. Hanna

Eng 201 English Literature II

An extension of English Literature I, this survey covers the representative British writers of the Romantic, Victorian and modern periods. Focuses on Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, Arnold, Shaw, Yeats, and Eliot. Prerequisite: Eng. 200. Required of English majors.

Three credit hours

Mr. O'Reilly, Mr. Rosen

Eng 210 American Literature

A course in American literature and its development from the late eighteenth century through the early twentieth century. Emphasis is on major writers and their contribution to the literary heritage. Intensive reading of paperback supplements text. Required of all students.

Three credit hours

ENGLISH

Eng 220 Introduction to Journalism

Mr. Bowden

A course designed to provide a survey of mass communications history from the beginning to the present. A study is made of press freedom, development of the printed media, legal aspects of journalism and the influence of mass communications on society. The course deals with press associations, syndicates, advertising, radio, television and the film. Time is devoted to the technology of journalism and practical experience in the techniques of news-gathering, writing and editing, copy reading, headline writing and makeup. A field trip to a daily newspaper is included. (Offered Fall Semester only)

Three credit hours

Eng 230 Oral Reading

Mr. Robbins

A course in the assimilation and analysis of literary material (poetry, prose, drama), with emphasis on the techniques used in reading written material aloud to an audience. Designed primarily to aid the teacher in motivating student interest and developing skill in reading literature.

Three credit hours

Eng 240 Persuasion

Mr. Robbins

This course involves the development of necessary skills in planning extemporaneous persuasive speeches. Particular emphasis is placed on problems involved in effective reasoning and criticism. Permission of the instructor required.

Three credit hours

Eng 250 Speech

Mr. Rootes, Mr. Robbins

The basic principles of organization and the techniques of delivery employed in expository speaking. Students prepare and deliver four speeches, receiving detailed analysis and criticism of both the written plan and the delivered speech.

Two credit hours

Eng 321 Journalism for the Secondary School

Mr. Bowden

A workshop course concerned with advising student publications and the technology of journalism. Emphasizes the student newspaper, newswriting, editing, makeup and design, advertising, publication policies; the yearbook, planning, production, content, art, layout, business policies. Other school publications examined. Open to juniors and seniors only. Eng 220 is recommended. (Offered Spring Semester only)

Two credit hours

Eng 350 Children's Literature

Miss Sawyer

Designed to acquaint students with varied types of literature for children in the lower and middle grades. Emphasizes extensive reading, but also includes the selection, critical evaluation, and use of materials. Does not count toward English major or minor.

Two credit hours

Eng 351 Advanced Composition

Mr. Vincent

For students desiring to gain increased proficiency in writing. Study of all forms of discourse, but with concentration on exposition. Analysis of selected readings. Criticism of writing.

Two credit hours

Eng 352 Shakespeare

Mr. Vincent

A study of the major chronicle plays, and of select comedies and tragedies. Minor emphasis on Shakespeare's development, the Elizabethan stage, textual problems, and historical criticism.

Three credit hours

Eng 360 World Literature I

Mr. Hanna

A close analysis of literary works of the classical, medieval, and Renaissance periods. Readings in the *Old and New Testaments*, the *Iliad* and the *Odyssey*, Greek tragedy, the *Aeneid*, the *Divine Comedy*, the *Song of Roland*, the *Nibelungenlied*, the *Decameron*, *Gargantua and Pantagruel*, *Don Quixote*, and such works of English literature as time will allow. Collateral readings in background and criticism; class reports and a term paper.

Three credit hours

Eng 361 World Literature II

Mr. Hanna

Readings in fiction, drama, and poetry representative of neoclassicism, romanticism, realism, naturalism, symbolism, and the modern school. Chief continental writers: Moliere, Voltaire, Rousseau, Goethe, Balzac, Dostoevski, Flaubert, Tolstoy, Chekhov, and Ibsen. Selected contemporary poets and short story writers. Collateral readings in background and criticism; class reports and a term paper. Prerequisite: Eng 360, or consent of instructor.

Three credit hours

ENGLISH

Eng 364 Fundamentals of Directing

Mr. Rootes

Designed to train directors in theatrical organization and rehearsal techniques. Encompasses composition, picturization, movement, rhythm, and pantomimic dramatization. Course involves both contemporary theory and practical application. Prerequisite: Eng 120 or Eng 365.

Three credit hours

Eng 365 Fundamentals of Acting

Mr. Rootes

A course designed to educate and train the student to convey thought and emotion through the use of the body and voice. Mime, vocal exercises and improvisation. A study of the major styles of acting and of the various approaches to acting with emphasis on the Stanislavsky method.

Three credit hours

Eng 366 The Augustans

Mr. Rutherford

A detailed survey of the major and minor poets and prose writers of the late Seventeenth and Eighteenth Centuries. The writings of Dryden, Pope, Swift, Johnson, and the Graveyard School as well as others are examined as to content, style, diction, and historical and literary commentary. Special emphasis is placed on the slow rise of Romanticism throughout the period.

Three credit hours

Eng 380 Introduction to Linguistics

Mr. Rutherford

A general introduction to modern linguistic science, including studies in the development of the language, phonology, morphology, the dictionary, and varieties of English and usage. Also examined are the various grammatical philosophies and their methods — traditional, structural, and transformational.

Three credit hours

Eng 382 Chaucer, Spenser, Milton

Mr. O'Reilly

A study of the three major poets of the fourteenth, sixteenth, and seventeenth centuries respectively, and their place in English letters. Readings in *The Canterbury Tales*, and *Troilus and Cressida*; selections from Edmund Spenser's *Fae ie Queene* and other poetry; Milton's *Par dise Lost* and *Samson Agonistes*.

Three credit hours

Eng 385 Eighteenth and Nineteenth Century English Novel

Mr. Smith

A study of representative English novels from the beginnings through the nineteenth century, with particular attention to the characteristic qualities distinguishing the fiction of the eighteenth and nineteenth centuries. Readings are taken from the works of such writers as Defoe, Richardson, Fielding, Sterne, Swollett, Austin, Thackeray, Dickens, the Brontes, George Eliot, Meredith and Hardy.

Three credit hours

Eng 390 Main Currents in American Literature

Miss Sawyer

An advanced course in American Literature emphasizing the intellectual currents, literary trends, and recurrent themes which found expression in the work of American writers from the Colonial Period to the beginning of the twentieth century. Representative topics considered are the Puritan Tradition, the Enlightenment, the Frontier Spirit, Romantic Idealism and the Rise of Realism. Focus is on writers of the nineteenth century. Designed primarily for English or history majors or minors. Prerequisite: Eng 210.

Three credit hours

Eng 440 History of the English Language

Mr. Rutherford

This course includes a survey of the pre-history of the language as well as a detailed study of the old, middle and modern English and the forces which shaped these stages. Some methods of modern linguistic science are utilized in examining current usage. Change and development of the language are emphasized.

Three credit hours

Eng 450 The Nature of Poetry

Miss Sawyer

An intensive study of the elements of poetry, involving close reading of poems of varied types. Designed to give insight into the poetic process and to develop appreciation and discrimination in reading poetry.

Two credit hours

Eng 451 The Short Story

Mr. Smith

A study of the modern short story as a literary form. The techniques and artistic effects of the outstanding works of many American, British, and Continental writers are evaluated through critical reading and discussion. Prerequisites: Eng 200 and 201.

Two credit hours



Eng 452 Dramatic Production

Mr. Rootes

A basic course in dramatic production and in direction techniques and procedures. Covers such areas as setting, lighting, costuming, makeup, direction, and theater management. Each class will do production work on a play.

Three credit hours

Eng 453 English Drama, 1580-1642

Covers the major plays by the major predecessors, contemporaries, and successors of Shakespeare. The plays are considered as individual works, for their structure and content, as representative of the work of their authors, and as illustrative of the dramatic conventions and theatrical practices of their period.

Three credit hours

Eng 454 Contemporary Literature

Miss Sawyer

Presents significant modern writers, largely English and American, as seen against the background of intellectual and social change in the twentieth century. Emphasizes wide and discriminating reading. Text is supplemented by the reading of four modern novels.

Three credit hours

Eng 455 The Novel

Miss Sawyer

A course in the reading and critical evaluation of the work of representative novelists from Jane Austen to William Faulkner. Focus in the first half is on English and continental novels of the nineteenth century, and in the second half on modern novels.

Two credit hours

Eng 456 Creative Writing

Mr. Vincent

An advanced course. Readings in narration, the short story, and the informal essay; study of tone, style, and point of view; writing with stress on narration. Consent of instructor required.

Two credit hours

Eng 457 Modern Drama from Ibsen to Ionesco

Plays by representative authors from the nineteenth century to the "theater of the absurd." Centers about the concepts of realism, surrealism, tragedy, and tragi-comedy in the contemporary theater.

Three credit hours

Eng 460 Fitzgerald, Hemingway and Faulkner

Mr. Rosen

Through discussion of novels and short stories of the writers and consideration of their careers, an effort is made to assess their work and their contribution to America's cultural and intellectual tradition. The student is expected to refer to biographies, memoirs, critical studies and histories. Fifteen works by the writers are considered in class. Prerequisites: Junior Class standing or permission of the instructor.

Three credit hours

Eng 461 Contemporary American Short Story

Mr. Rosen

Analysis and discussion of short stories written by such recent or practicing writers as Wallace Stegner, Philip Roth, John Cheever, John Updike, James Hall, Irvin Faust, J. D. Salinger, and Isaac Bashevis Singer, Flannery O'Connor, Endora Welty, Katherine Ann Porter, James Baldwin, John Steinbeck, Paul Bowles, and others. Texts consist of paperback collections of the writers considered.

Three credit hours

Eng 470 Literary Criticism

Mr. Hanna

Readings in the first half stress the forces of tradition and change in the evolution of modern critical theory. The root doctrines of Plato and Aristotle, Horace and Longinus. Mortifications during the Middle Ages and the Renaissance. The manifestoes of Dryden and Pope, Wordsworth and Coleridge. The impact of naturalism, symbolism, and aestheticism on the nineteenth century. The culminating doctrines of such twentieth century critics as Benedetto Croce, I. A. Richards, and T. S. Eliot. The effects of Freudianism and the behavioral sciences on literary values. One month is spent on the aftermath of the New Criticism reflected in contemporary criticism of the novel, the play, and the poem.

Three credit hours

Eng 499 Independent Study in English

To provide juniors and seniors who have demonstrated critical and analytical capability an opportunity to pursue a project independently, charting a course and exploring an area of interest within their major field, bearing upon it previous course experiences and emerging with an intellectually sound, coherent syntheses, or an artistic or technical creation reflecting a high caliber of performance.

One to three credit hours

Eng Ed 354 Teaching English in the Secondary School

Mr. Hanna

A methods course for English majors and minors. Review of the basic fundamentals of English grammar and writing skills. Creative approach to the teaching of both grammar and literature at the secondary level.

Three credit hours

French

Assistant Professor Rolfe

Fr 100-101 Elementary French

Mr. Rolfe

A course for the beginning student with emphasis on the four basic language skills — speaking, understanding, reading and writing.

Eight credit hours
(Four each semester)

Fr 200-201 Intermediate French

Mr. Rolfe

For those who have completed Fr 100-101 or two years of high school French. A review and continuation of Fr 100-101 stressing the active use of French.

Six credit hours
(Three each semester)

Fr 280-281 Survey of French Literature

Mr. Rolfe

Selected readings in the principal genres from the Middle Ages to the present time.

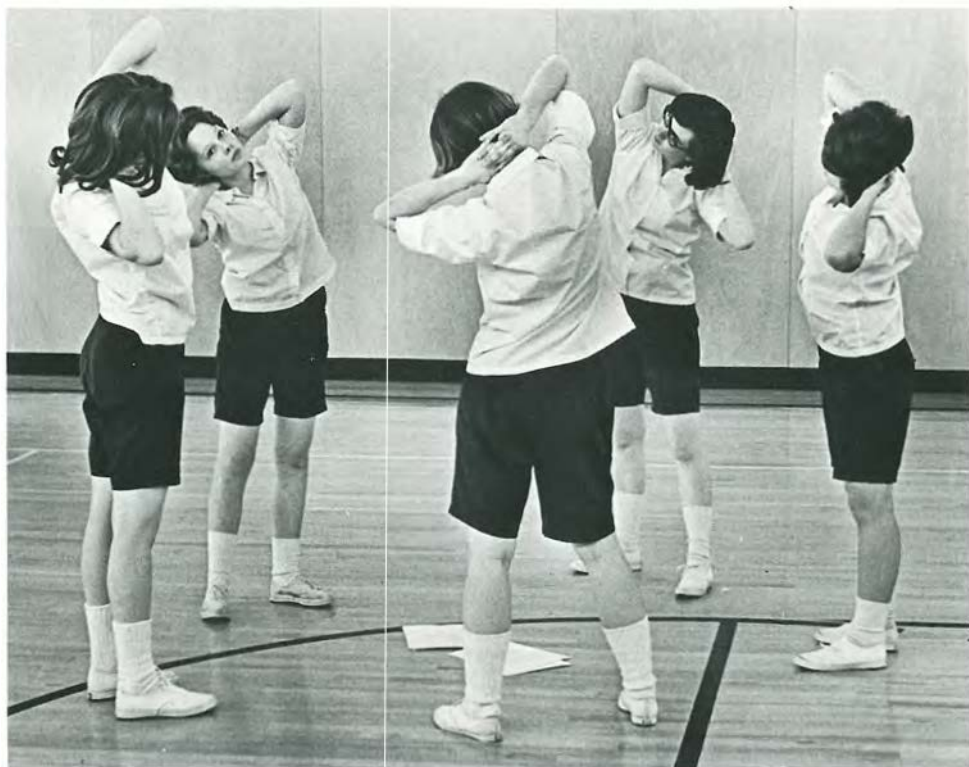
Three credit hours

Fr 300-301 French Composition and Conversation

Mr. Rolfe

For those who have completed Fr 200-201 or three or more years of high school French. Intensive training in oral practice and self-expression, the detailed discussion of contemporary French texts, presentation of the more complex points of French grammar.

Six credit hours
(Three each semester)



Health and Physical Education

Professor Costello, R.; Associate Professor Drake; Assistant Professor Goodwin; Mr. Martin, Mrs. McHugh.

PE 100-101, 200-201 W

The Staff

A service program required for all freshman and sophomore women offering elective courses in archery, basketball, bowling, conditioning, folk and square dancing, golf, gymnastics, modern dance, officiating, softball, soccer, recreational games, slimnastics, skiing, swimming, tennis, and volleyball.

One-half credit hour

PE 100-101 M

Mr. Martin

A service program emphasizing the fundamentals and basic strategies of soccer, flag football, volleyball, gymnastics, and bowling.

One-half credit hour

PE 102 College Health

Mrs. McHugh

Health instruction is a basic and required part of general education. The aim of this course is to help students grow in scientific health knowledge, develop desirable health attitudes, improve health practices, and solve individual and group health problems.

Two credit hours

PHYSICAL EDUCATION

PE 200-201 M

Mr. Costello

The course aims to continue physical fitness skills through soccer, wrestling, and tumbling. Special emphasis is placed on golf, tennis, and recreational games in order to provide students with an understanding of, and degree of proficiency in, activities with a high carry-over value.

One-half credit hour

PE 350 Teaching Physical Education in the Elementary and Junior High School

Miss Goodwin

Professional preparation for students interested in teaching physical education. Covers growth patterns of junior high and elementary school children, program planning and problems in physical education at the junior high and elementary school level. Also presents an opportunity to teach games and creative rhythmic activities to students in the local public schools. Students interested in playground work, recreation and camp counseling should find the course valuable.

Three credit hours

PE 353 M Coaching, Philosophy and Fundamentals

Mr. Martin

Emphasis on the methods of teaching and coaching soccer, basketball, and baseball; specific offenses and defenses in soccer and basketball will be analyzed; offensive and defensive organization and strategy will be covered in baseball.

Three credit hours

PE 354 Program Planning in Physical Education

Miss Drake

Trends in the planning of programs. Criteria for selecting the activities. Programs for special occasions. Activity preferences of various age levels. Opportunity to work out programs with laboratory school students.

Three credit hours

PE 355 Physical Education for the Mentally Retarded

Mr. Costello

This course is planned to help the student understand corrective physical education with emphasis on the mentally retarded. The student has an opportunity to work with mentally retarded children in a variety of activities, including games, relays, tumbling, apparatus, swimming, and bowling. Investigation of the causes and incidence of mental retardation is also undertaken.

Three credit hours

PE 451 Organization and Administration of Physical Education

Mr. Costello

Professional preparation for students interested in physical education. Covers the organization and administration of the required physical education program, intramural offerings, and interscholastic program.

Three credit hours





Industrial Arts

Professors Berry, Greer, Mitchell, Monteleone; Associate Professor Mertens; Mr. Carter, Mr. Warren.

IA 103 Introduction to Technology

Mr. Monteleone, Mr. Mertens, Mr. Carter

An introductory study of industry and technology and their impact on our culture. Emphasis on the role of industrial arts in developing an understanding of the basic concepts and functions of the manufacturing, construction, power and transportation, electrical-electronics, graphic communications, and service industries. Research, individual and team problems, and activities. Required of all entering department majors.

Three credit hours

IA 104 Graphics I

Mr. Greer

An introduction to the language of industry, its techniques and interpretations. Involves sketching, lettering, use of instruments, theory of shape and size description, geometric constructions, revolution, primary and secondary auxiliaries, orthographic and pictorial projections.

Two credit hours

IA 150 Graphic Arts I

Mr. Berry

Introduction to the graphic arts industries and technology. Designing, composing, reproducing and assembling printed materials, utilizing commercial printing, duplication and art techniques. Emphasis on letterpress, rubber stamp making, and direct-image offset reproduction.

Classroom and lab. Two credit hours

IA 151 Crafts Industries I

An introductory study of those industries concerned with the manufacture of products from ceramic material, including clay, cement, glass, enamels, plastics, leather, caning and weaving materials; also artistic treatment of wood and metal, as in carving and tooling. Individual activities and problem solving.

Classroom and lab. Two credit hours



IA 152 Graphics II

Mr. Greer

Graphics for the machine and tool manufacturing industries. Includes intersections, developments involving triangulation. Application of the elements of drawing machine parts, threads, fasteners, gears and cams to detail and assembly drawings. Tolerances and related shop processes examined. Experiences in inking, tracing, and printmaking. Prerequisite: IA 104.

Two credit hours

IA 204 Graphics III

Mr. Greer

Graphics for the construction industries. Includes architectural designing, activity analysis, planning and execution of residential plans. Standard details of construction, printreading, codes, plans, specifications, schedules and cost analysis. Prerequisite: IA 104.

Two credit hours

IA 205 Wood Technology I

Mr. Warren

A study of the wood manufacturing industries and technology. Introduction to the concepts of designing, planning, fabricating, finishing, and distribution as they pertain to these industries. Selection, use and care of equipment. Safety practices.

Classroom and lab. Three credit hours

IA 206 Metal Technology I

Mr. Berry

A study of metal manufacturing industries and technology. Introduction to the concepts of designing, planning, fabricating, finishing, and distribution as they pertain to these industries. Selection, use, and care of equipment. Safety practices.

Classroom and lab. Three credit hours

IA 207 Power and Transportation I

Mr. Carter

A study of those industries concerned with power, its sources, generation, transmission and utilization. Analysis of the design and construction of devices involving natural, thermal, and electrical power. Basic principles of internal combustion and their application in power plants. Emphasis on small engines, their construction, maintenance and repair.

Classroom and lab. Three credit hours

IA 208 Electronics I

Mr. Monteleone

A study of the electrical industries with emphasis upon electrical theory, AC and DC generation and distribution. Applications in lighting, signal devices, heating, power and control devices. Testing and service equipment and procedures.

Classroom and lab. Three credit hours

INDUSTRIAL ARTS

IA 305 Wood Technology II

Mr. Warren

A study of the construction industries including construction principles; layout, foundations, framing, sheathing, and finish. Surveying, plot planning, and earth moving principles considered. Learning activities centered around scaled structures. Group and individual problems. Prerequisite: IA 205.

Classroom and lab. Three credit hours

IA 306 Metal Technology II

Mr. Berry

Metal industries concerned with sheet metal fabrication, electric and gas welding, and machining techniques. Consideration is given to plumbing as it pertains to the construction industries. Individual and group problems. Laboratory and maintenance practices. Prerequisite: IA 206.

Classroom and lab. Three credit hours

IA 307 Power and Transportation II

Mr. Carter

A study of power and transportation industries and their devices, equipment and materials. Emphasis is placed upon methods and means of land, sea, and air travel and transport. Operation, maintenance and repair included. Prerequisite: IA 207.

Classroom and lab. Three credit hours

IA 308 Electronics II

Mr. Monteleone

A study of the electronics industry with emphasis upon vacuum tubes and semi-conductors and their application to radio and audio frequency circuits. Wave propagation, transmission lines and antennas also considered. Prerequisite: IA 208.

Classroom and lab. Three credit hours

IA 309 Graphic Arts II

Mr. Berry

A study of those industries utilizing photo-offset lithography with emphasis upon camera work, stripping, plate-making, and presswork. Line and display composition and reproduction, screen process printing and binding techniques are also included. Prerequisite: IA 150.

Classroom and lab. Two credit hours

IA 350 Arts and Crafts

The utilization of information and experience in crafts activities to enrich classroom teaching. Crafts for summer counseling, club or community programs, or for recreational interests or needs. Non-majors only.

Two credit hours

IA 351 Industrial Arts for the Elementary School

Mr. Mertens

The role of industrial arts in the elementary school. Activities and projects correlating with unit teaching as they enrich the general curriculum. Study of correct material and tool usage, with special emphasis upon safe practices. Non-majors only.

Three credit hours

IA 410 Wood Technology III

Mr. Warren

Production and wood manufacturing problems including jigs, fixtures, special machine operations, and newer finishing methods. Patternmaking and laminating are also included. Group and individual research assignments and related technical problems. Prerequisite: IA 305.

Classroom and lab. Three credit hours

IA 411 Metal Technology III

Mr. Berry

The technology of metal machining, casting, metallurgy and metrology. Emphasis on process engineering and quality control. Individual and group activity. Prerequisite: IA 306.

Classroom and lab. Three credit hours

IA 412 Power and Transportation III

Mr. Carter

A study of power and transportation industries with emphasis on automotive servicing, including diagnosis, maintenance, repair and testing. Opportunities for individual research and problem solving. Prerequisite: IA 307.

Classroom and lab. Three credit hours

IA 413 Electronics III

Mr. Monteleone

Semi-conductors with emphasis on their application in amplifiers, oscillators, power supplies, computers, indicating devices, and other electronic equipment. Prerequisite: IA 308.

Classroom and lab. Three credit hours

IA 450 Graphics IV

Mr. Greer

Problems in graphic communication centered around the individual needs of students. Opportunities for experiences in descriptive geometry, industrial product design, topographical drawing, nomography and rendering, including architectural. Prerequisite: IA 152.

Two credit hours



IA 451 Materials Testing

Mr. Warren

Industrial techniques involved in the analysis of the physical properties of materials and their utilization in the manufacturing and construction industries. Emphasis on research and experimentation. Individual and team activities. Prerequisites: IA 205, 206.

Classroom and lab. Two credit hours

IA 452 Instrumentation

Mr. Monteleone

Introduction to the study of sensing devices and instruments necessary to observe and control both manufacturing processes and the performance of mechanical and electrical machinery. Emphasis on pressure in liquids, atmospheric pressure, temperature, indicating instruments, mechanical and electrical transducers, potentiometric devices and other monitoring instruments. Prerequisite: IA 308.

Classroom and lab. Two credit hours

IA 453 Fluid Power

Mr. Carter

A study of fluids at work. Investigation of the theory and application of hydraulics and pneumatics in mechanics and industry. Design, construction and maintenance of fluid power devices and installations. Prerequisite: IA 207.

Classroom and lab. Two credit hours

IA 454 Graphic Arts III

Mr. Berry

Experiences in photography, lithography, etching, hand bookbinding, die cutting, embossing and printing on materials with ink and other media. Individual and group activities and technical reports. Prerequisite: IA 309.

Classroom and lab. Two credit hours

IA 455 Graphic Arts IV

Mr. Berry

The study of production problems in the graphic arts industries. Emphasis on graphic design, photographic screen stencils, and other graphic processes. Opportunities for individual experience and development. Prerequisite: IA 454.

Classroom and lab. Two credit hours

INDUSTRIAL ARTS

IA 456 Crafts Industries II

Mr. Mertens

Advanced study of the crafts industries with emphasis on the newer technologies. Examination of artistic crafts for leisure time activities and for adult programs. Individual and group research and problem solving. Prerequisite: IA 151.

Classroom and lab. Two credit hours

IA 457 Plastics Technology

Mr. Warren

Pattern and mold design and construction; thermo-forming injection-molding, reinforced plastics, blow molding, foam and plastisol forming. Theory and application of thermoplastic and thermo-set principles. Prerequisite: IA 205.

Classroom and lab. Two credit hours

IA 458 Metal Technology IV

Mr. Berry

Investigation of special machining, fabrication, and metal finishing techniques. Numerical control, tungsten inert gas welding, tumbling, and electroplating are included. Individual and group research problems and activities. Prerequisite: IA 306.

Classroom and lab. Two credit hours

IA 460 Modern Industry

Mr. Carter

Evolution and structure of modern American industry and its impact upon the social, economic, and cultural pattern. Personnel and management organization and control, industrial relations, production practices, and product distribution.

Three credit hours

IA 499 Independent Study in Industrial Arts

To provide juniors and seniors who have demonstrated critical and analytical capability an opportunity to pursue a project independently, charting a course and exploring an area of interest within their major field, bearing upon it previous course experiences and emerging with an intellectually sound, coherent syntheses, or an artistic or technical creation reflecting a high caliber of performance.

One to three credit hours

IA Ed 300 Analysis and Course Development

Mr. Berry

Curriculum construction in industrial arts based on an analysis of student interests and needs, curricular objectives, and instructional content. Techniques of course development, utilizing resource units, experience units, instructional units, and trade and job analysis are discussed and evaluated. Development of teaching units discussed. Specimen course of study required.

Three credit hours

IA Ed 350 Methods and Materials of Instruction

Mr. Mitchell

Classroom and laboratory experiences involving the nature and direction of learning. Planning for effective teaching, preparation and use of audio-visual materials, devices and equipment. Planning and preparation of teaching units and lessons. Demonstration teaching and critiques. Orientation to student teaching. Prerequisites: Psy 200, IA Ed 300.

Four class hours, Three credit hours

IA Ed 404 Seminar in Teaching

Mr. Mitchell

Investigation, discussion, and possible solutions to problems arising from student teaching experiences. Teacher certification; graduate education; professional and ethical procedures; and standards involved in securing and holding a teaching position. Prerequisite: Ed 402.

Two credit hours

IA Ed 450 Laboratory Organization and Management

Mr. Greer

Basic principles of organizing and managing an industrial arts laboratory and program. Planning the school laboratory, selection and arrangement of equipment and organization for implementing a modern program of industrial arts. Safety principles are stressed. Prerequisite: Ed 402.

Three credit hours



Mathematics

Professor Fish; Associate Professors Estes, Grobe; Assistant Professor Mary Peabody; Mr. Littlefield, Mr. Soychak.

Ms 100 Elements of Mathematics I

The Staff

A basic course emphasizing the structure of the number systems of whole numbers and positive rational numbers; fundamental notions of set theory; basic concepts of various numeration systems, nature of proof.

Three credit hours

The Staff

Ms 101 Elements of Mathematics II

Continuance of the two-course sequence on the structure of the real number system and its subsystems; integers, negative rationals; rationals. Use of simple equations and inequalities, topics from elementary number theory to emphasize discovery and proof.

Three credit hours

Ms 120 College Algebra

Mr. Soychak

A deeper study of the basic concepts of algebra necessary for more advanced work in mathematics.

Three credit hours

Mr. Soychak

Ms 121 College Trigonometry

Study of the trigonometric functions with practical applications and the solving of triangles.

Three credit hours

Ms 150 Analytic Geometry and Calculus

Mr. Fish

Equations and graphs, differentiation and integration of polynomial functions, applications. Prerequisite: equivalent of Ms 120 and Ms 121.

Four credit hours

Ms 151 Analytic Geometry and Calculus II

Mr. Fish

Conic sections, differentiation and integration of algebraic, trigonometric, logarithmic, and exponential functions, applications. Prerequisite: Ms 150 or consent of instructor.

Four credit hours

Ms 173 Logic and Sets

Miss Mary Peabody

A modern approach to selected topics in mathematics containing more depth in the areas of symbolic logic and theory of sets. A foundation course for many mathematical areas.

Three credit hours

MATHEMATICS

- Ms 220 Introduction to Statistics** Mr. Littlefield
Elementary statistics to provide sufficient terminology and technique for interpreting critically the statistical content in various fields and for performing fundamental statistical procedures.
Three credit hours
- Ms 250 Analytic Geometry and Calculus III** Mr. Estes
Polar coordinates, geometry of three dimensions, infinite series, partial differentiation, applications. Prerequisite: Ms 151 or consent of instructor.
Four credit hours
- Ms 251 Calculus IV** Mr. Estes
Multiple integrals in two and three dimensions and an introduction to ordinary differential equations, applications. Prerequisite: Ms 250.
Four credit hours
- Ms 260-261 Probability and Statistics** Mr. Fish
A two-semester sequence in probability and statistics. The first course is restricted to discrete sample spaces; the second to continuous sample spaces. Follows recommendations of CUPM, Mathematical Association of America. Prerequisite: Ms 151, Ms 173.
Six credit hours
(Three each semester)
- Ms 272 Real Numbers** Mrs. Grobe
Systematic and detailed construction of real number system and its subsystems. Prerequisite: Ms 173.
Three credit hours
- Ms 310 Basic Concepts of Algebra** Miss Mary Peabody
A course as recommended by the Committee on the Undergraduate Program, Mathematical Association of America, to follow the two-course sequence on number systems; emphasis on generalization and abstraction, algebraic properties, linear equations and inequalities in two variables, quadratics, systems of equations and inequalities, modular arithmetic, group, field, complex numbers, functions. Prerequisite: Math 100 and 101.
Three credit hours
- Ms 311 Informal Geometry** Miss Mary Peabody
To provide the prospective elementary teacher with the common core of geometric knowledge; congruence, measurement, parallelism, and similarity; presented at first intuitively, then as part of a deductive system; applications. Follows recommendations of CUPM, Mathematical Association of America. Prerequisite: Math 100 and 101.
Three credit hours
- Ms 350-351 Geometric Structures I and II** Mr. Estes
An introduction to the geometries that result from various postulate systems, such as the Euclidean, affine, non-Euclidean, and projective. Math 350 is a prerequisite for Math 351.
Six credit hours
(Three each semester)
- Ms 370 Abstract Algebra** Mr. Soychak
A course developed around the following topics: notions of set theory, theorems on groups, rings, fields, structure of homomorphisms, linear equations, and the integral domain of polynomials over a particular field.
Three credit hours
- Ms 371 Linear Algebra** Mr. Soychak
An introduction to matrices and their applications in solving systems of linear equations.
Three credit hours
- Ms 380 Theory of Numbers** Mrs. Grobe
Basic course in number theory, including such topics as divisibility properties of integers, prime numbers, congruences, and multiplicative number theoretic functions. Prerequisite: Ms 250.
Three credit hours
- Ms 390 Topology** Mrs. Grobe
Elementary general topology, including topological spaces, mappings, compactness, nets, and product, metric, function, and Peano spaces. Prerequisite: Ms 250.
Three credit hours

MATHEMATICS/MUSIC

Ms 471 Foundations of Mathematics

Mrs. Grobe

A strongly historical treatment of fundamental concepts in geometric and algebraic systems. Use of deductive principles and axiomatic treatments in relation to such items as Peano postulates and algebraic structures, development of modern mathematics.

Three credit hours

Ms 473 History of Mathematics

Mrs. Grobe

A foundational development of the growth of mathematical ideas, including those of more recent times. Prerequisite: Ms 151 or consent of instructor.

Three credit hours

Ms 499 Independent Study in Mathematics

To provide juniors and seniors who have demonstrated critical and analytical capability an opportunity to pursue a project independently, charting a course and exploring an area of interest within their major field, bearing upon it previous course experiences and emerging with an intellectually sound, coherent syntheses, or an artistic or technical creation reflecting a high caliber of performance.

One to three credit hours

Ms Ed 312 Teaching Mathematics in the Secondary High School (7-12) Miss Mary Peabody

Teaching mathematics with the new approach at the secondary school level. Programs for teaching both the slow and advanced pupil. Study of current textbooks and experimental material in modern mathematics. Content as needed to provide orientation to topics commonly taught in grades 7 through 12.

Three credit hours

Music

Professor Bowder; Associate Professor Chamberland; Assistant Professors Cole, Heel.

FA 101 Music Appreciation and History

Mr. Cole

A survey of music from the Gregorian Chant to modern times, covering musical practices of the Renaissance, Baroque, Classical, Romantic, and Contemporary periods. Representative works by the outstanding composers of each period.

Three credit hours

FA 201 Fundamentals of Music

Mr. Cole

A background study of concepts and skills essential to an intelligent reading of music. The development of natural musical abilities through participation in singing, rhythmic activities, and instrumental work. An appreciation of music through awareness of basic structures.

Two credit hours

Mus 100 History of Music I

Mr. Chamberland

Medieval and Renaissance Periods: historical development and musical practices from the Gregorian chant and early polyphony through the culmination of the madrigal in England. Musical examples of outstanding composers are played, analyzed, and discussed.

Three credit hours

Mus 101 History of Music II

Mr. Chamberland

Baroque Period: continuation of Mus 100, from the establishment of opera in Italy and the rise of instrumental music, to the culmination of polyphony in the works of J. S. Bach.

Three credit hours



Mus 102 Theory I

Mr. Bowder

Major and minor scales; intervals, triads and chord connection; cadences; harmonization of soprano and bass lines utilizing primary triads; related dictation and keyboard application. Three credit hours

Mus 103 Theory II

Mr. Bowder

Triads in first and second inversion; specific uses of the six-four chord; secondary triads in fundamental position and inversion; modulation; non-harmonic tones (passing, auxiliary, appoggiatura, suspension and anticipation); dominant seventh chord (root position inversion, regular and irregular resolutions); related dictation and keyboard application. Prerequisite: Mus. 102.

Three credit hours

Mus 104, 105, 206, 207, 306, 307, 402 Applied Music

The Staff

May be taken in piano, voice, or any orchestra or band instrument. One lesson per week in the major performance area (3 credits). Also one half-hour lesson in the minor performance area (1 credit) in fulfillment of applied music requirements. Special fee.

Four credit hours

Mus 106, 107, 208, 209, 308, 309, 403 Vocal Ensemble

Mr. Chamberland

Emphasizing singing technique and interpretation and an exploration of choral literature of various periods and styles. Principles of choral training are exemplified. The repertoire is varied from year to year so that the course covers a considerable range during a given student's attendance.

One-half credit hour

Mus 108, 109, 210, 211, 310, 311, 404 Recital Class

Mr. Chamberland

Performance in major field, stage procedure, and evaluation of performances.

One-half credit hour

MUSIC

Mus 200 History of Music III

Mr. Cole

Classical and Romantic periods: historical development and musical practices from the establishment of the sonata, string quartet, and symphony, through program music, music-drama, and the rise of nationalism in music. Representative works of outstanding composers are played, analyzed, and discussed.

Three credit hours

Mus 201 History of Music IV

Mr. Cole

Contemporary Period: continuation of Mus 200, from Impressionism to recent tendencies. Melodic, harmonic, rhythmic and structural features of the twentieth century American and European music and their relationship to tradition.

Three credit hours

Mus 202 Theory III

Mr. Bowder

Diatonic seventh chords; modulation; expansion of non-harmonic tones; altered chords; Neapolitan sixth; augmented sixth chords; chromatic alterations; chorales and their harmonizations; related dictation and keyboard application. Prerequisite: Mus. 103.

Three credit hours

Mus 203 Theory IV

Mr. Bowder

Contemporary techniques of composition; modern harmony, theory and related studies. Two, three and four part counterpoint and related forms of the eighteenth century. Prerequisite: Mus. 202.

Three credit hours

Mus 220 Class Piano

Mr. Cole

Practical class piano for the elementary teacher with little or no piano background. Course covers note reading, scales, accompaniment of simple songs, transposition, and sightreading.

Two credit hours

Mus 302 Instrumental Conducting

Mr. Bowder

Organization, training, and directing of bands and orchestras. Practical conducting experiences, score reading, basic beat patterns, and interpretation.

Two credit hours

Mus 303 Vocal Conducting

Mr. Chamberland

Organization, training, and directing of choruses and glee clubs in high schools and junior high schools. Study and practice in rehearsal technique, problems of diction, and emphasis on textual delivery.

Two credit hours

Mus 400 Orchestration

Mr. Bowder

A study of the nature of the various instruments. Practice in scoring for instrumental combinations, orchestra, and band.

Three credit hours

Mus 499 Independent Study in Music

To provide juniors and seniors who have demonstrated critical and analytical capability an opportunity to pursue a project independently, charting a course and exploring an area of interest within their major field, bearing upon it previous course experiences and emerging with an intellectually sound, coherent syntheses, or an artistic or technical creation reflecting a high caliber of performance.

One to three credit hours

MUSIC

Mus 501	Concert Band	Mr. Bowder no credit
Mus 505	Mens Glee Club	Mr. Chamberland no credit
Mus 507	Womens Glee Club	Mr. Chamberland no credit
Mus 509	A Cappella Choir	Mr. Cole no credit
Mus 510	Chamber Orchestra	Mr. Bowder no credit
Mus 513	Brass Ensemble	Mr. Cole no credit
Mus Ed 200	Woodwind Class Methods of teaching woodwind instruments; practical experience on various woodwinds; and elements of transposition.	Mr. Bowder Two credit hours
Mus Ed 201	Brass Class Methods of teaching brass instruments; practical experience on various brasses; and elements of transposition.	Mr. Bowder Two credit hours
Mus Ed 300	Elementary Music Methods and Materials Study of approved methods and materials of music education in the elementary school. Discussion and actual teaching in the classroom.	Miss Heel Three credit hours
Mus Ed 301	Secondary Music Methods and Materials Study of approved methods and materials of music education in junior and senior high schools. Continuation of Mus Ed 300.	Miss Heel Three credit hours
Mus Ed 302	String Class Class methods and materials in teaching violin. Fundamentals of violin, including bowing, tone production, intonation, and fingering techniques extended into third position.	Miss Heel Two credit hours
Mus Ed 303	String Class String ensemble methods and materials for beginning strings. Fundamentals of viola, cello, and string bass. Rudiments of fingering, bowing, and tone production.	Miss Heel Two credit hours
Mus Ed 320	Rhythmic Activities in the Elementary School This course follows the sequence of rhythmic activities from the basic fundamental movements of the primary grades to the more intricate patterns of instruments and folk dancing used in upper elementary. Stresses active participation in games, dances and creative phases. Previous music experience not necessary.	Miss Heel Two credit hours
Mus Ed 400	Music Administration and Supervision Designed to present an integrated picture of philosophies of administration, and to resolve problems encountered in student teaching. Also to present new viewpoints based on discussion of text and individual problems.	Miss Heel Three credit hours



Science

Professors Kerr, Neuberger; Associate Professors Grass, Riciputi, Whitten, M.; Assistant Professors Ayers, Barker, G., Dorsey, Hare*, Miller, Pendleton.

*On leave of absence, 1967-68.

Sci 100-101 Physical Science

The Staff

A two-semester course designed to educate non-scientists in the principles and methods of physical science. Selected topics in physics, chemistry, geology, meteorology, and astronomy. Basic principles and concepts covering conservation of charge, energy, mass and momentum, fields (electrical, gravitational and magnetic), waves, the molecular structure of matter, and atomic structure. Related fundamentals of chemistry are considered; introduction to organic chemistry, with particular emphasis on the electronic nature of chemical phenomena. Geology, meteorology, and astronomy are also studied as interrelated disciplines. Laboratory experimentation stresses importance of first-hand experience in substantiating physical principles. Four class-hours weekly; two hours of lecture and two of laboratory.

Six credit hours (Three credits each semester)

Sci 100a Concepts of Physical Science

Mr. Grass

A one-semester course for art, music, and industrial arts majors. Aims at developing the basic content of the major scientific disciplines together with their underlying physical principles: astronomy (concepts of space); geology (concepts of time and change); chemistry (concepts of matter); physics (concepts of energy and its transformations). Consideration also given to the methods of science and to the impact of science on society.

Three credit hours

SCIENCE

Sci 150-151 Earth Science

Mr. Hare

A survey course including material selected from the areas of astronomy, geology, meteorology, and oceanography. In addition to field trips, the laboratory sessions involve a study of minerals, rocks, soils, topographic maps and weather maps.

Two one-hour lectures and one two-hour lab.

Six credit hours

(three credits each semester)

Sci 156 Physical Geology

Mr. Miller

The study and observation of the earth through the interpretation of the work of streams, glaciers, volcanoes, and other geological agents. The identification of rocks and minerals is included.

Three credit hours

Sci 157 Historical Geology

Mr. Miller

Study of the earth's history in terms of physical, chemical, and biological change, from its origin to the present time. Focus upon the methods of determining chronology and conditions through fossils and structural characteristics.

Three credit hours

Sci 161-162 Physics I and II

Mr. Grass

A laboratory course in which selected experiments in physics are used to demonstrate physical principles and make possible a deeper study of physical phenomena. Lectures, demonstrations, problem solving, films and filmstrips are employed to develop an understanding of mechanics, sound, optics, heat, electricity, and modern physics.

Eight credit hours (four each semester)

Sci 200 Biological Science

The Staff

An introductory course in biology, this one semester offering to sophomores fulfills the general education requirement and serves as a prerequisite for advanced work in the field. Deals with the modern concepts of plant and animal structure and functions, together with interrelationship and interdependencies of both with their environment. The student explores the dynamic and complex cell, structurally as well as functionally; tissues and organs as levels of biological organizations; and finally, the basic principles of genetics, evolution, and ecology. Three one-hour lectures and one three-hour laboratory period weekly.

Four credit hours

Sci 220-221 General Chemistry I and II

Mr. Maurice Whitten

A survey of the fundamental concepts and theories of chemistry. Atomic structure, periodic classification, chemical bonding, molecular structure, ionic reactions, and the chemical equilibria are discussed. Three lectures, one three-hour lab. per week.

Eight credit hours (four per semester)

Sci 250 Vascular Botany

Mr. George Barker

Study of form and structure as related to function, life cycles, economic uses, and ecology of vascular plants. Some work in collecting, identifying, and preserving of specimens. Open to qualified freshmen and sophomores or with instructor's permission.

Four credit hours

Sci 251 Non-vascular Botany

Mr. George Barker

Study of form and structure as related to function, life cycles, economic uses, and ecology of non-vascular plants. Some work in the collecting, identifying and preserving of specimens. Open to qualified freshmen and sophomores or with instructor's permission.

Four credit hours

Sci 252 Invertebrate Zoology

Mr. Riciputi

A survey of the invertebrates with emphasis on morphology and relationships of representative types. Open to qualified freshmen and sophomores or with instructor's permission.

Four credit hours

Sci 253 Vertebrate Zoology

Mr. Riciputi

The form, structure, and life processes of the major groups of vertebrates. The areas are considered in respect to the animal's adaptation to his environment. Field trips are taken to various habitats which afford first-hand ecological observations and also supply living material for laboratory investigation. Open to qualified freshmen and sophomores or with instructor's permission.

Four credit hours

SCIENCE

Sci 258 Ecology

Mr. Miller

Basic relationships of plants and animals to their physical and biotic environments. The study of biomes, habitats, and communities are interpreted in varying stages of succession and stratification. An emphasis is placed on species dynamics and population changes.

Three credit hours

Sci 259 Conservation of Natural Resources

Mr. Miller

The study of the better-known practices for the utilization of our natural resources. Topics covered in the course include mineral resources, soils, forests, water, wild life, man himself, and recreation.

Three credit hours

Sci 355 Natural Science

Mr. George Barker

A course primarily for teachers in the elementary school. Includes a variety of topics in the area of biology: insect metamorphosis, bird migration, fossil records, animal communities, plant communities, animal behavior, reproduction, survival foods, fungi and man, and related subjects. Emphasis is on obtaining an understanding and appreciation of the flora and fauna of New England.

Three credit hours



SCIENCE

Sci 360 Structural Geology

Mr. Miller

This course is a study of rock structure and deformation. Much time is spent in field research, geologic mapping and bedrock interpretation. Some study of mineral resource locations included. It is recommended that a student have had physical or historical geology as a prerequisite.

Two one-hour lectures and one two-hour lab.
Three credit hours

Sci 361 Introduction to Oceanography

Mr. Hare

Origin and extent of the oceans; nature of the sea bottom, causes and effects of current and tide; animal and plant life in the sea.

Three credit hours

Sci 363 Astronomy

Mr. Ayers

A descriptive course in astronomy, surveying the solar system and beyond. Students utilize the 4-inch refracting telescope to observe the nearer planets, the solar disk, features of the moon, and multiple stars. Films, slides, filmstrips, and models illustrate and demonstrate celestial phenomena.

Three credit hours

Sci 366 History of Science

Mr. Maurice Whitten

A comprehensive survey of the historical development of science from earliest records to the present. Attention is given to the nature of science, methods of scientific discovery, the relation of science to technology and the implications of both for society. Prerequisite: Sci 100-101, Sci 200 and six additional hours of science completed. Grades of C or better in all science courses completed.

Three credit hours

Sci 367 Anatomy and Physiology

Mr. Neuberger

A study of the relationships of the structure and function of the human organism; focus on the mechanisms included in the following systems: muscular, nervous, circulatory, respiratory, excretory, endocrine, and reproductive. Permission of instructor required.

Three credit hours

Sci 368 Meteorology

A basic introduction to meteorological phenomena: the atmosphere; its characteristics, composition and structure; cloud types, circulation of air; currents and winds; air masses. Analysis of weather reports, weather forecasting, and weather maps.

Three credit hours

Sci 369 Microbiology

Mr. Riciputi

A study of the anatomy and physiology of microorganisms. The use and experience of microtechniques are important parts of the course. Prerequisites: Sci 200.

Four credit hours

Sci 370 Ornithology

Mr. Riciputi

The basic biology of birds, their life history, migration and economic importance with special reference to those of eastern North America. (Students must supply own binoculars, spotting scopes, etc.)

Three credit hours

Sci 372 Ichthyology

Mr. Riciputi

The structure, origin, evolution, natural history, classification, and zoogeography of fishes, with particular emphasis on species found in the northeastern United States. Prerequisites: Sci 200, 201, 353.

Four credit hours

Sci 373 Mineralogy

Mr. Miller

An introduction to descriptive crystallography and study of the physical properties and chemical structures of common rock-forming minerals. Field trips and laboratory analysis are an important part of the course.

Three credit hours

SCIENCE

Sci 380 Organic Chemistry

Mr. Maurice Whitten

A study of the nomenclature, classification, preparation, structure, properties and uses of aliphatic and aromatic compounds. Three lectures, one four hour lab. per week. Prerequisite: Sci 220-221 with grade of C as minimum.

Four credit hours

Sci 400 Biological Techniques

Mr. Dorsey

A course designed primarily for students preparing to teach biology in the secondary school. Emphasis is placed on advances in the secondary biology curricula, notably the Biological Sciences Curriculum Study approaches. A major portion of the course work is devoted to the laboratory exercises and techniques which typify the investigative approach of these curricula. Open to qualified juniors and seniors or with instructor's permission.

Three credit hours

Sci 420 Embryology

Mr. Neuberger

A study of the development of animals. Topics include an analysis of cell division, gametogenesis, organogenesis, growth and differentiation. An integration of the experimental physiological approach with the descriptive morphological approach is emphasized. Open to qualified juniors and seniors or with instructor's permission.

Three credit hours

Sci 450 Genetics

Mr. Neuberger

A study of the principles of heredity in plants and animals, with attention to recent advances in gene and chromosome research. The course includes consideration of current literature; individual student projects. Open to qualified juniors and seniors or with instructor's permission.

Three credit hours

Sci 455 Modern Physics

Mr. Grass

Selected topics in modern physics, atomic structure, spectra, relativity, the de Proglie model, the quantum-mechanical model, radioactivity, particle accelerators. Prerequisites: Physics I and II and Math 251, or permission of instructor.

Three one-hour lectures and two three-hour labs.

Four credit hours

Sci 499 Independent Study in the Sciences

To provide juniors and seniors who have demonstrated critical and analytical capability an opportunity to pursue a project independently, charting a course and exploring an area of interest within their major field, bearing upon it previous course experiences and emerging with an intellectually sound, coherent syntheses, or an artistic or technical creation reflecting a high caliber of performance.

One to three credit hours

Sci Ed 360 Teaching Sciences in the Secondary School

Mrs. Kerr

Reading, discussions, experimentation, field trips, and audio-visual techniques are presented and evaluated as an integral part of this course. Emphasis is placed on concept formation in science consistent with programs now being taught nationwide.

Three credit hours

Conservation Workshop

Through the joint sponsorship of Corham State College, Farmington State College, the University of Maine, the State Natural Resources Agencies, and the State Department of Education, a Conservation Workshop is conducted each summer at Bryant Pond, Maine.

Courses in conservation education, the natural history of inland Maine, and other special courses are given by the College faculty over a period of approximately eight weeks, in three sessions of three weeks each.

Graduate and undergraduate credit for Workshop courses is offered to all matriculated students. A free descriptive brochure giving detailed information is available from the College on request.



Social Sciences

Professors Emerson, Lacognata, York, Young; Associate Professors Barker, P., Dickey, Schleh, Whitten, J., Wood; Assistant Professors Bibber, Hodges, Ventresco, Witherill; Mr. Moberg.

SS 100 History of Civilization I

Mr. Ventresco

An introduction to the heritage of mankind, from prehistoric times through the discovery and settlement of the New World. Political, intellectual, scientific, and aesthetic modes of life historically viewed. Divergent concepts of the theory and writing of history as a systematic explanation of past events.

Three credit hours

SS 101 Modern Civilization

Mrs. Young, Mr. Ventresco

A continuation of SS 100. Historical development of the characteristic features of the modern period; analysis of world issues; focus on the roles of the great European powers, from the seventeenth to the twentieth century.

Three credit hours

SS 200 United States History to 1877

Mr. Emerson, Miss Wood, Miss Bibber

A basic survey and introduction to the field of American History. The political, social, and economic development of the United States from 1789 to 1877.

Three credit hours

SS 201 United States History Since 1877

Mr. Emerson, Miss Wood, Miss Bibber

This course is a continuation of SS 200. A survey of American political, social and economic development since 1877.

Three credit hours

SOCIAL SCIENCES

SS 202 Principles of Geography

Mr. Hodges, Mr. Moberg

A basic course surveying man's world habitat. A study of the tools of geography; earth relationships; the atmosphere and the climatic regions of the world; landforms and their formation; the earth's waters and soils . . . their formation and distribution; natural vegetation; animal life. An inquiry into world population and the world pattern of trade routes.

Three credit hours

SS 203 Sociology

Mr. Paul Barker, Mr. Lacognata

A general introduction to the nature of society; a study of social institutions, cultural and physical anthropology, and introductory archaeology. Recent movements, revolutions, and social changes. Emphasis is placed particularly on a study of social problems embracing the school, home, and community.

Three credit hours

SS 204 American Government

Mr. Schleh

The theory, organization, and practice of American government, especially the relationships between the federate system and the state, the individual citizen, and foreign nations. Unifying concepts include the nature of political power, federalism, ideologies, the formation of democratic character, and the role of American Government in the world community of nations. In all phases the approach is directed to government as a policy-related social science.

Three credit hours

SS 220 Personal and Social Economics

Mr. Witherill

A course designed to help students make decisions and judgments pertaining to personal finances. Material is studied showing how personal economic decisions relate to society and how government social programs affect the economic life of the individual. Topics studied include: Incomes and Occupations, Budgeting; Insurance; Social Security Programs, Investments and Estate Planning.

Three credit hours

SS 300 Economics

Mr. Witherill

A one semester course designed to give a basic understanding of the economic system. Deals with the economy as a whole rather than with problems of the individual firm, and gives the student a basis for knowing how economic events affect the national economy. Topics covered include a study of the Economic System, Money and Banking, Production, Income, Employment, Economic Cycles, and International Trade.

Three credit hours

SS 301 Maine History

Mr. York

A survey of the state's political, social, and economic history from colonial days to the present. Among topics covered are exploration and settlement, Indians and the wars, transportation, religion, Maine in America's wars, outstanding state personalities, and industrial development in the nineteenth and twentieth centuries.

Two credit hours

SS 302 Current Economic Problems

Mr. Witherill

A course following Economics to apply basic economic principles to economic problems of a contemporary nature. Current literature including periodicals and daily newspapers supplement text materials. Areas of discussion include Problems of Employment, Automation, Poverty, Agriculture, Medicare, and Fair Trade. Other topics include European Common Markets, Aid to Foreign Countries and the Population Explosion. Prerequisite: SS 300.

Three credit hours

SS 350 World Geography

Mr. Moberg

A contemporary survey of world geography. Geophysical and geographical concepts of continents and nations as a basis for understanding world affairs and developing an awareness of geography. Prerequisite: SS 202.

Three credit hours

SS 351 Geography of Asia

Mr. Hodges

An intensive geographic study of each of the countries of the world's largest continent. Special attention given to nations created since World War II. The so-called trouble zones: Middle East, Russian Far East, Korea, Southeast Asia, and the two Chinas. Prerequisite: SS 202.

Three credit hours

SS 352 Geography of Latin America

Mr. Moberg

An intensive study of the countries and major islands south of the Rio Grande. Sustained attention is given to the economic and political relations of Latin America with the United States. Focus also on Latin American culture. Prerequisite: SS 202.

Three credit hours

SOCIAL SCIENCES

SS 353 Geography of Anglo-America

An intensive regional study of North America: climate, topography, soils, vegetation, resources, agriculture, industry, transportation, and population. Regional interdependence and industrial-agrarian relations. Prerequisite: SS 202.

Mr. Moberg

Three credit hours

SS 354 Diplomatic History of the United States I

The course covers the development of key United States foreign policies from the Revolution to the Spanish American War. Prerequisite: SS 200.

Miss Wood

Three credit hours

SS 355 Diplomatic History of the United States II

The chief emphasis is placed on the causes and results of World Wars I and II, the nature of the Cold War, and the character of our present commitment in Asia. Prerequisite: SS 201.

Miss Wood

Three credit hours

SS 356 History of Russia

Political, social, cultural and economic history of the Russian people, with emphasis on the period since 1825. The first half of the course surveys geographic backgrounds, the influence of Byzantine civilization, the impact of invasions, and the development of Russia's unique social, cultural and political institutions. Remainder of course is devoted to the pressures for reform and weaknesses in imperial Russia, the Communist Revolution, and the history of the Communist state since 1917. Prerequisite: SS 101 or equivalent.

Mrs. Young

Three credit hours

SS 357 History of the West

The advance of the American frontier from the Atlantic seaboard to the last frontier on the Great Plains. Challenges faced by the pioneers and their adjustment to them. Problems of the miner, the cowboy, the shepherd, and the farmer. Changes in transportation and shifts in government policy affecting the West. Prerequisite: SS 200 or SS 201.

Miss Wood

Three credit hours

SS 358 The Bible

A study of portions of both the Old and the New Testaments. Exploration of historical background, literary qualities, authorship, and materials available for scholarly research.

Miss Dickey

Three credit hours

SS 362 Geography of Europe

A detailed analysis of (1) the continent as a whole — its history, climate, topography, population, natural vegetation, and soils; (2) a study of individual countries on the continent, with special attention to the three great powers — Russia, Great Britain, and France. Prerequisite: SS 202.

Mr. Moberg

Three credit hours

SS 363 Twentieth Century United States

A selective examination of four periods — the Progressive Era, the 1920's, the New Deal period, and the post-war years — built around the theme of American adjustment to an urban-industrial society. Although primarily historical in approach, the course attempts to integrate the findings of the social sciences with national literary and artistic expression. Prerequisite: SS 201.

Mr. Emerson

Three credit hours

SS 364 Civil War and Reconstruction

An examination in depth of the political, economic, diplomatic, and military history of the period 1850-1877. Particular stress is laid upon the nature of the Old South and upon causation and interpretation with reference to the Civil War and its aftermath. Prerequisite: SS 200.

Mr. Emerson

Three credit hours

SS 365 Social and Cultural History of the United States to 1865

The development of American social life and culture. A selective examination of the nation's major social institutions; of the family, the economy, and the church; of American literature and the arts. Special emphasis on religious developments in both the colonial and national periods. Prerequisite: SS 200 or SS 201.

Miss Wood

Three credit hours

SS 366 Social and Cultural History of the United States Since 1865

An intensive inquiry into the ways in which urbanization and industrialization have affected our institutions, manners, and morals. Main currents of American thought since 1865. SS 366 is related to, but is not a continuation of, SS 365. Prerequisite: SS 200, SS 201.

Mr. Emerson

Three credit hours

SOCIAL SCIENCES

SS 367 Colonial History of the United States

Miss Wood

The political, social, and economic development of the American colonies, from the days of exploration and settlement to the American Revolution. Changing British imperial policy and the causes of the American Revolution. Prerequisite: SS 200.

Three credit hours

SS 368 Seminar in American Character

Mr. Emerson

A course focusing attention on a particular problem of historical analysis: the interpretation and determination of American national character from the beginnings to the present. The writings of Tocqueville, Bryce, Adams, Turner, Siegfried, Potter, Riesman and others are considered. Prerequisite: SS 200, SS 201.

Three credit hours

SS 374 Introduction to African History

Mr. Schleh

Introductory survey of African History from early migrations to mid-twentieth century. Approach is both regional, stressing selected countries representative of their regions, and topical, cutting across political boundaries (e.g. pre-European African civilizations, role of Islam, conduct and impact of the slave trade, exploration, the era of colonization and independence movements).

Three credit hours

SS 375 Contemporary Africa

Mr. Schleh

Seminar to examine major elements in today's Africa including: development and adaptation in African politics, economic development and social change, racial conflict and cooperation, regional groupings and Africa in the world affairs.

Three credit hours

SS 380 Social Problems

Mr. Lacognata

The course contains descriptions and analyses of socially-disapproved behavior. Sub-areas include education, family, mental illness, sexual deviation, and illegitimacy. Cross-cultural comparisons in sub-areas are included. Prerequisite: SS 203 or permission of the instructor.

Three credit hours



SOCIAL SCIENCES

SS 381 Minority Peoples

Mr. Lacognata

Sociology of majority-minority relations in contemporary, particularly American, society. Attention is given to specific ethnic, religious, and racial minorities in terms of prejudice and discrimination. Prerequisite: SS 203 or permission of the instructor.

Three credit hours

SS 383 Dynamics of Population

Mr. Lacognata

The course contains general demographic theories, especially those concerning population growth. Population distribution and density, age and sex, and ethnic composition. Emphasis on fertility, mortality, and migration and their influences on population change. Prerequisite: SS 203 or permission of the instructor.

Three credit hours

SS 384 Seminar in Social Thought

Mr. Lacognata

Analyses of contemporary social issues, ideas, and attitudes characterizing American society. Independent library research projects to be emphasized in concert with seminar dialogues. Prerequisites: Juniors and seniors only and by permission of instructor.

Three credit hours

SS 385 Europe, 1500-1715

Mr. Ventresco

A political, social and intellectual study of Europe from the era of Martin Luther to the age of Sir Isaac Newton. One of the major themes of this course is the development of the state, and the rise of the great powers within the broader context of international struggles. Prerequisite: SS 106 or permission of the instructor.

Three credit hours

SS 387 French Revolution and Napoleon

Mrs. Young

The course takes the French Revolution as a climax of major intellectual, political, and social trends in eighteenth-century Europe. Thorough coverage is given to the Enlightenment, the influence of the American Revolution, the French Revolution itself and its impact outside France. The Napoleonic era is handled as the culminating phase of the Revolution and as a major influence on nineteenth-century Europe. Prerequisite: SS 101 or equivalent.

Three credit hours

SS 388 Europe and the World in the 19th Century

Mrs. Young

An intensive survey of Europe's political changes, the impact of nationalism, and the economic, social, and intellectual results of the Industrial Revolution. The spread of European culture and technology to the non-European world and the causes and effects of imperialism are studied. Prerequisite: SS 101 or equivalent.

Three credit hours

SS 392 Twentieth Century Europe

Mrs. Young

An intensive survey of European developments in the twentieth century stressing intellectual, economic, psychological, social and political factors. Europe's changing role; the impact of World Wars I and II; the meaning of Fascism, Nazism, and Soviet Communism; and problems facing Europe in today's world are considered. Prerequisite: SS 101 or equivalent.

Three credit hours

SS 394 History of Far East to 1700

Miss Bibber

A survey of the history and culture of China and Japan from earliest times to 1700, with emphasis on the composition of "traditional" Japanese and Chinese society. Prerequisite: Six hours of history courses.

Three credit hours

SS 395 History of the Far East Since 1700

Miss Bibber

A study of China and Japan since 1700 emphasizing contrasting moves toward modernization in two traditional societies. Prerequisite: Six hours of history courses.

Three credit hours

SS 396 Urban Geography

Mr. Hodges

Deals with the American city as a type. Urban Centers are dealt with at two levels - as entities in which location, characteristics, growth and relations with the countryside are considered, and as entities in which the internal parts of the city are explored.

Three credit hours

SS 400 History of England

Mr. Ventresco

A survey of England from Anglo-Saxon times to the beginning of the twentieth century, with emphasis on the nature of English monarchy, the development of political institutions, and evolving constitutionalism. Particular attention is given to broad movements such as the Reformation, the Industrial Revolution, and Imperialism.

Three credit hours

SOCIAL SCIENCES

SS 410 The United States and Asia

Miss Bibber

A history of United States' interests in the Far East from 1789 to 1960, considering economic and social contacts as well as diplomatic. Prerequisite: SS 200-201.

Three credit hours

SS 425 Canadian-American Relations

Mr. James Whitten

Selected topics germane to the historical, cultural, economic, geographic, and political interactions of Canada with the United States. Prerequisite: SS 200, SS 201.

Three credit hours

SS 450 Archaeology

Mr. Paul Barker

The study, preparation and display of specimens; cataloging of archaeological materials. Emphasis on the history and techniques of excavation, the nature and description of sites, especially those excavated by the students during actual field work. The study of the classical ruins and cultures of antiquity. Research conducted on exhibited specimens in the museum and files of artifacts, slides, and published field reports of Gorham State College expeditions are utilized. Prerequisite: SS 203.

Three credit hours

SS 451 Marriage

Mr. Paul Barker

The physical, social, psychological and religious factors pertaining to marital adjustment are analyzed. Slides, lectures, medical-school film, symposia and discussions are utilized. Students are expected to become familiar with a wide variety of marriage literature through library reading. Prerequisite: SS 203.

Three credit hours

SS 452 Criminology

Mr. Paul Barker

The study of penology, crime and its causes, and the interrelationship of crime and contemporary American culture. The personality and behavior of pre-delinquent types most frequently encountered by teachers are studied in depth. Visits conducted to various corrective and preventive institutions. Prerequisite: SS 203.

Three credit hours



SOCIAL SCIENCES

SS 453 Political Thought

Introduction to classical political philosophy. Emphasis on the 19th- and 20th-century development of liberalism, democracy, social Darwinism, nationalism, socialism, and the total-state claims of fascism and communism. Prerequisite: SS 204.

Mr. James Whitten

Three credit hours

SS 454 International Relations

Principles and practices involved in the transactions of governments, international organizations, groups and peoples. The course stresses the agencies and policies that shape the destinies of commerce, diplomacy, power, sovereignty, war and peace. Permission of instructor required.

Mr. Schleh

Three credit hours

SS 455 Political Geography

A study of the geography of the major political units of the world, with special reference to such factors as location, size, shape, natural resources, population, boundaries, ethnographic structure, language, religion, type of government, colonies and colonial problems. Special emphasis is given to the so-called strategic areas of the world. Prerequisite: SS 202.

Mr. Hodges

Three credit hours

SS 456 Economic Geography

An inquiry into the economic activities of man in relation to his physical background. Focuses on agriculture, mining, forests, and industry; the economic significance of the sea and the geographic aspects of transportation and commerce. Prerequisite: SS 202.

Mr. Hodges

Three credit hours

SS 457 Anthropology

A study of both the physical and cultural backgrounds of man, including comparative studies of characteristics of contemporary peoples. Students utilize extensively the collections in the museum. Laboratory work conducted. Prehistoric cultures are reconstructed from the files of artifacts in the laboratory. Participation in research and the publication of scientific monographs. An approach to understanding social institutions and the content of culture. Prerequisite: SS 203.

Mr. Paul Barker

SS 458 Modern European Governments

Emphasis on the current forms of government of the Soviet Union, West Germany, France and the United Kingdom including consideration of twentieth century developments of these forms. Use of this knowledge in examining current domestic and foreign policies of these countries. Prerequisite: SS 101.

Three credit hours

Mr. Schleh

SS 459 Geography of Africa

An intensive geographic study of the emergence of the nations of the once "Dark Continent" as well as the older, established powers such as South Africa, Egypt, and Ethiopia. Attention is given to areas still under colonialism. Prerequisite: SS 202.

Three credit hours

Mr. Moberg

SS 460 History of Canada

The course is concerned with the development of Canada as a settlement, a colony and a nation. The significance of Canada as a nation and as a neighbor, its problems and prospects as a growing power are examined. Canada's cultural heritage sets the tone of the study. Prerequisite: SS 200.

Three credit hours

Mr. James Whitten

SS 498 Historiography

A survey of the principal schools of historical writing and of their products, with a detailed analysis of the philosophical principles, specific purposes and research and writing techniques of selected major historians. Required of and open to senior history majors only.

Three credit hours

The Staff

SS 499 Independent Study in the Social Sciences

To provide juniors and seniors who have demonstrated critical and analytical capability an opportunity to pursue a project independently, charting a course and exploring an area of interest within their major field, bearing upon it previous course experiences and emerging with an intellectually sound, coherent syntheses, or an artistic or technical creation reflecting a high caliber of performance.

Three credit hours

SS Ed 361 Teaching Social Studies in the Secondary School

The course examines the historical and philosophic foundations of the social studies with emphasis on innovation. The course presents new concepts, methods and materials that are changing the aims, content, and methods in the professional dimensions of social studies instruction. Required of history social sciences area majors.

One to three credit hours

Mr. James Whitten

Three credit hours

Administration of the College

The State Board of Education

William O. Bailey, chairman, Camden; Bernal B. Allen, South Portland; Charles F. Bragg, II, Bangor; Herbert R. Brown, Brunswick; Vaughn Currier, Fort Kent; Frank S. Hoy, Lewiston; Mrs. Mary H. Manduca, Old Orchard Beach; Ernest C. Marriner, Waterville; Carroll L. McKusick, Guilford; Mrs. Jean Sampson, Lewiston.

Commissioner of Education

William T. Logan, Jr.

Executive Director of Professional Services

Hayden L. V. Anderson

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PRESIDENT	Kenneth T. H. Brooks
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DIRECTOR OF STUDENT PERSONNEL	Maurice E. Littlefield
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DEAN OF WOMEN	Edna F. Dickey
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DIRECTOR OF ADMISSIONS	William J. Munsey
DIRECTOR OF STUDENT TEACHING	Carl H. Hempel
DIRECTOR OF PLACEMENT	Evelyn M. Littlefield
DIRECTOR OF ATHLETICS	Richard A. Costello

Department Chairmen

EDUCATION	Melissa H. Costello
ENGLISH	John G. Hanna
FINE ARTS	Gerard G. Chamberland
HEALTH AND PHYSICAL EDUCATION	Richard A. Costello
INDUSTRIAL ARTS	John Mitchell
SCIENCE AND MATHEMATICS	Robert N. Miller
SOCIAL SCIENCES	Angelo A. Lacognata

Emeriti Personnel

ANDREWS, MIRIAM E., (1922-1960), B.S., M.A., Professor Emerita of Music
BAILEY, FRANCIS L., (1940-1960), B.A., M.A., Ph.D., President Emeritus

Personnel of the College

(*) Indicates leave of absence, 1967-68

- AYERS, GEORGE H. (1959) Assistant Professor of Science; University of Maine, B.A., 1951; Ohio State University, M.A., 1959
- BARKER, GEORGE J. (1955) Assistant Professor of Science; Gorham State College, B.S., 1951; Boston University, Ed.M., 1958
- BARKER, PAUL M. (1949) Associate Professor of Social Science; Wittenberg University, A.B., 1933; Kansas State College, M.S., 1942; Colgate Rochester Divinity School, B.D., 1945
- BERRY, ARTHUR O. (1955) Professor of Industrial Arts; Gorham State College, B.S., 1950; Pennsylvania State University, Ed.M., 1954; University of Connecticut, Ph.D., 1967
- BIBBER, JOYCE K. (1967) Assistant Professor of History; Westbrook Junior College, A.A., 1956; Barnard College, B.A., 1958; Stanford University, M.A., 1962
- BOWDEN, REGINALD B. (1965) Director of Public Relations, Instructor of Journalism; University of Maine, B. A., 1955
- BOWDER, JERRY L. (1960) Professor of Music; University of Washington, B.A., 1952; Lewis and Clark College, M.M., 1956; Eastman School of Music, Ph.D., 1960
- BOWMAN, JAMES A. (1949) Associate Professor of Psychology; Gorham State College, B.S., 1947; Boston University, Ed.M., 1951
- BROOKS, KENNETH T. H. (1959) President of the College; University of New Hampshire, A.B., 1947; Boston University, Ed.M., 1948, Ed.D., 1955
- CARTER, RICHARD H. (1964) Instructor of Industrial Arts; Gorham State College, B.S., 1954; University of Maine Ed.M., 1964
- CHAMBERLAND, GERARD G. (1957) Associate Professor of Music; Boston University, B. of Mus., 1950, M.M., 1956
- COBB, MERRILL E. (1966) Associate Professor of Education; University of Maine, B.S., 1949, Ed.M., 1953
- COLE, RONALD F. (1963) Assistant Professor of Music; Bowdoin College, B.A., 1961; Eastman School of Music, M.A., 1963
- COSTELLO, MELISSA H. (1953) Assistant Professor of Education; Gorham State College, B.S., 1952; University of Maine, Ed.M., 1957, C.A.S., 1960
- COSTELLO, RICHARD A. (1953) Director of Athletics, Professor of Health and Physical Education; University of Alabama, B.S., 1952; University of Illinois, M.S., 1953; Springfield College, D.P.E., 1965
- DAVIS, EVERETT A. (1966) Instructor of Education; Gorham State College, B.S., 1961; Indiana University, M. S. Ed., 1966
- DICKEY, EDNA F. (1946) Dean of Women, Associate Professor of Social Science; University of New Hampshire, B.A., 1933, M.A., 1936
- DORSEY, F. DONALD, JR. (1967) Assistant Professor of Biology; Bowdoin College, A.B., 1950; Syracuse University, M.S., 1960; Simmons College, M.S., 1964

- DRAKE, PAULA R. (1967) Associate Professor of Women's Physical Education; Lasell Junior College, A.A., 1948; Beaver College, B.A., 1950; Teachers College, Columbia University, M.A., 1952
- DUSO, RALPH E. (1948) Administrative Assistant; Keene Teachers College, B. Ed., 1935; New York University, M.A., 1944
- EAMES, MARJORIE B. (1935) Head Librarian, Assistant Professor of Library Science; Middlebury College, B.S., 1925; Pratt Institute Library School, B.S.L.S., 1933; University of Michigan, A.M.L.S., 1949
- EMERSON, HORTON W., JR., (1962) Professor of History; Colby College, A.B., 1949; Yale University, Ph.D., 1957
- ESTES, ROBERT A. (1966) Associate Professor of Mathematics; Bowdoin College, A.B., 1958; University of Kansas, M.A., 1961
- FICKETT, REGINALD N. (1964) Instructor of Education; Gorham State College B.S., 1958; University of Maine, Ed. M., 1960
- FISH, LINCOLN T., JR. (1959) Professor of Mathematics; University of Maine, B.S., 1948, M.A., 1949; Boston University, Ed.D., 1951
- GOODWIN, JEANETTE L. (1955) Assistant Professor of Physical Education; Sargent College, B.S., 1944; Springfield College, Ed.M., 1955
- GRASS, CALVIN F. (1966) Associate Professor of Physics; Boston University, A.B., 1949; University of Maine, Ed.M., 1954
- GREER, JOHN S. (1952) Professor of Industrial Arts; Gorham State College, B.S., 1950; Pennsylvania State University, Ed.M., 1954; University of Connecticut, Ph.D., 1967
- GROBE, ELIZABETH M. (1967) Part-time Associate Professor of Mathematics; Bryn Mawr College, B.A., 1956; University of Michigan, M.A., 1959, Ph.D., 1964
- HANNA, JOHN G. (1963) Professor of English; Trinity College, B.S., 1936; Harvard University, M.A., 1946; Boston University, Ph.D., 1958
- *HARE, PARNELL S. (1963) Assistant Professor of Science; University of Maine, B.S., 1956; University of New Hampshire, M.S., 1960
- HEEL, HELEN E. (1953) Assistant Professor of Music; Gorham State College, B.S., 1942; University of Michigan, M.M., 1948
- HEMPEL, CARL H. (1967) Director of Student Teaching, Associate Professor of Education; Hyannis State Teachers College, B.S. in Ed., 1941; University of Connecticut, M.S. in Ed., 1950; Ph.D., 1960
- HODGES, FRANKLIN D. (1966) Assistant Professor of Geography; Farmington State College, B.S., 1961; Clark University, M.A., 1966
- KERR, ELIZABETH F. (1957) Professor of Science; Marygrove College, B.S., 1939; Columbia University, A.M., 1946, Ed.D., 1956
- LACOGNATA, ANGELO A. (1965) Professor of Sociology; University of Buffalo, B.A., 1957; University of Rochester, M.A., 1959; Michigan State University, Ph.D., 1962
- LaPOINTE, NORMAN J. (1967) Director of Upward Bound; University of Maine, B.S., 1956; University of Massachusetts, M.A., 1960
- LITTLEFIELD, EVELYN M. (1930) Director of Placement, Associate Professor of Education; Defiance College, B.S., 1930; Columbia University, M.S., 1942

PERSONNEL

- LITTLEFIELD, MAURICE E. (1965) Director of Student Personnel, Instructor of Mathematics; University of Maine, B.S., 1960; University of Virginia, Ed. M., 1964
- MacDOUGALL, RONALD J. (1962) Assistant Librarian; Plymouth State College, B.Ed., 1953; Rutgers University, M.L.S., 1962
- MARTIN, JAMES P. (1966) Instructor of Physical Education; Springfield College, B.S., 1965, M.S., 1966
- McHUGH, PEGGE E. (1967) Instructor of Women's Physical Education; Marietta College, B.A., 1961; Ohio University, M.S., 1967
- MERTENS, ROBERT P. (1967) Associate Professor of Industrial Arts; State University College of New York at Buffalo, B.S., 1958, M.S., 1963
- *MILBURY, ALLEN W. (1963) Instructor of Education; University of New Hampshire, B.A., 1960; Indiana University, M.S., 1963
- MILLER, ROBERT N. (1946) Assistant Professor of Science; Colby College, A.B., 1936
- MINER, GALE P. (1960) Assistant Professor of Art; Columbia University, B.S., 1947; Teachers College Columbia, M.A., 1951; Columbia University, M.F.A., 1958
- MITCHELL, JOHN (1947) Professor of Industrial Arts; Fitchburg State College, B.S., 1939; University of Minnesota, M.A., 1947; Pennsylvania State University, Ed.D., 1954
- MOBERG, WENSEL W. (1954) Instructor of Social Science; Clark University, A.B., 1939, M.A., 1942
- MONTELEONE, THOMAS I. (1965) Professor of Industrial Arts; New York State College for Teachers at Buffalo, B.S., 1933; New York University, M.A., 1939; Bradley University, Ed.D., 1952
- MOORE, MICHAEL G. (1967) Instructor of Art; Syracuse University, B.F.A., 1963; University of Washington, M.F.A., 1967
- MUNSEY, WILLIAM J. (1965) Director of Admissions; University of Maine, B.S., 1960; Boston University, M.Ed., 1964
- NEUBERGER, HAROLD T. (1957) Professor of Science; Iowa-Wesleyan College, B.S., 1952; University of New Mexico, M.S., 1953; Boston University, Ed.D., 1964
- O'REILLY, CHARLES A. (1966) Instructor of English; Colby College, B.A., 1949; Putney Graduate School of Teacher Education, M.A., 1952
- PARADISE, NOEL E. (1967) Associate Professor of Psychology; University of Maryland, A.B., 1948; University of Michigan, Ph. D., 1960
- PEABODY, MARY (1935) Assistant Professor of Mathematics; Boston University, B.S., 1933, M.S., 1947
- PEABODY, MILDRED (1952) Associate Professor of Education; Gorham State College, B.S., 1939; Boston University, Ed.M., 1952
- PENDLETON, JAMES W. (1967) Assistant Professor of Science; Keene State College, B.S., 1959; Oregon State University, M.S., 1963
- RICIPUTI, REMO H. (1965) Associate Professor of Biology; University of New Hampshire, B. A., 1954, M.S., 1958

PERSONNEL

- ROBBINS, LAFOREST G. (1965) Instructor of Speech; University of Maine, B.S., 1961, M.A., 1965
- ROLFE, FREDERICK B. (1966) Assistant Professor of French; Bowdoin College, A.B., 1946; Middlebury College, A.M., 1948
- ROOTES, MINOR R. (1966) Associate Professor of Speech and Theater; University of California at Santa Barbara, A.B., 1954; San Francisco State College, M.A., 1961
- ROSEN, KENNETH F. (1965) Assistant Professor of English; Pennsylvania State University, B.A., 1962; University of Iowa, M.F.A., 1964
- RUTHERFORD, PHILLIP R. (1966) Assistant Professor of English; East Texas State University, B.A., 1962, M.A., 1964, Ph.D., 1966
- SAWTELLE, GWEN D. (1938-42, 1953) Instructor of Art; University of Minnesota, B.S., 1935; George Peabody College for Teachers, M.A., 1939
- SAWYER, C. ELIZABETH (1943) Assistant Professor of English; University of Maine, B.A., 1928; Boston University, M.A., 1943; Middlebury College, M.A., 1964
- SCHLEH, EUGENE P. A. (1965) Associate Professor of Political Science; Union College, B.A., 1961; Yale University, M.A., 1962
- SCHONEBERG, SHELDON C. (1966) Associate Professor of Art; University of Southern California, B.F.A., 1949, M.F.A., 1951; Academia di Belle Arti, Rome, Italy, Third Year Certificate
- SMITH, ALLSTON E. (1954) Registrar, Instructor of English; Boston University, B.S., 1926; University of Maine, M.S., 1933
- SOUTHWORTH, ROBERT S. (1963) Professor of Psychology; Boston University, B.A., 1951, Ed. M., 1958, Ed.D., 1965
- SOYCHAK, ANTHONY G. (1965) Instructor of Mathematics; University of Maine, B.S., 1959; Bowdoin College, M.A., 1963
- STANTON, EVA M. (1967) Assistant Librarian; Southern Connecticut State College, B.S., 1967
- SULLIVAN, JEROME H. (1966) Dean of Men; Arizona State University, B.S., 1963
- VENTRESCO, FIORELLO B. (1966) Assistant Professor of History; Boston University, A.B., 1959; University of Michigan, M.A., 1961
- VINCENT, STANLEY J. (1959) Instructor of English; Boston University, B.A., 1949; Columbia University Teachers College, M.A., 1950
- WARREN, WILLIAM C. (1966) Instructor of Wood Technology; Gorham State College, B.S., 1959; University of Maryland, M.A., 1966
- WEEKS, ERNEST E. (1967) Associate Professor of English; Bowdoin College, A.B., 1939; Tufts University, M.A., 1949; Columbia University, Ph.D., 1965
- WHITTEN, JAMES M. (1951) Associate Professor of Social Science; Colby College, A.B., 1944; University of Maine, A.M., 1955
- WHITTEN, MAURICE M. (1955) Associate Professor of Science; Colby College, A.B., 1945; Columbia University, M.A., 1949
- WISE, WILLIAM B. (1966) Assistant to the Dean of Academic Affairs, Director of Evening College; University of Maine, B.S., 1961

PERSONNEL

- WITHERILL, ROBERT D. (1966) Assistant Professor of Economics; Colby College, A.B., 1947; University of Maine, M.A., 1953, M.Ed., 1962
- WOOD, ESTHER E. (1930) Associate Professor of Social Science; Colby College, A.B., 1926; Radcliffe College, M.A., 1929
- YORK, ROBERT M. (1962) Dean of Academic Affairs, Professor of History; Bates College, A.B., 1937; Clark University, M.A., 1938, Ph.D., 1941
- YOUNG, ANNE P. (1965) Professor of History; Boston University, B.S., 1943, M.A., 1944; University of Chicago, Ph.D., 1951
- ZAX, MANUEL (1966) Assistant Professor of Education; Yale University, B.A., 1949; Keene State College, M.Ed., 1963

Robie Hall — Women's Residence



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