

1970

## Gorham State College of the University of Maine Catalog 1970

Gorham State College of the University of Maine

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A photograph of the Gorham State College sign. The sign is white with a decorative top and bottom. It features the text "GORHAM STATE COLLEGE" in large, gold, serif capital letters. Below this, in smaller black capital letters, is "OF THE UNIVERSITY OF MAINE" and "FOUNDED 1878". A woman in a yellow jacket and shorts stands to the left of the sign, smiling. A man in a yellow shirt and light blue pants stands to the right, looking at the sign. The background is a dense green forest. A red circle is visible in the upper right corner of the image.

# GORHAM STATE COLLEGE

OF THE UNIVERSITY OF MAINE  
FOUNDED 1878

Catalog for 1970



# Academic Calendar 1969-70

1969

## First Semester

September 13	Residence Halls for Freshmen Open at Noon
September 15	Residence Halls for Upper Classmen Open at 9 a.m.
September 15-16	Registration
	Adviser-Advisee Conferences
September 17	Classes Begin
October 2-3	MTA Convention — Classes in Session
November 7	End of First Quarter
November 10	Midterm Grades Due in Registrar's Office
*November 27-28	Thanksgiving Recess (Classes end at Noon on Nov. 26)
November 30	Residence Halls Open at Noon
December 1	Classes Resumed
*December 19	Start of Christmas Recess (Classes end at Noon on December 19)

1970

January 4	Residence Halls Open at Noon
January 5	Classes Resumed
January 15	Reading Day
January 16-24	Examination Week
*January 26-31	Between Semesters Recess

## Second Semester

February 1	Residence Halls Open at Noon
February 2	Registration for Second Semester
February 3	Classes Begin
March 27	End of Third Quarter
*March 30-April 3	Spring Recess
April 6	Residence Halls Open at Noon
April 7	Classes Resumed
April 10	Third Quarter Grades Due in Registrar's Office
May 26	Reading Day, No Classes
May 27-June 4	Examination Week
June 7	Commencement

Student Teachers' Vacation Schedule	— Second Semester:
February 2	— Start of Student Teaching
Pending Public School Announcement	— Observe Public School Vacation
March 30-April 3	— Observe College Vacation
Pending Public School Announcement	— Public School Vacation —
	Elementary and Kindergarten-Primary
	Student Teachers Hold Seminars at
	College

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

## SUMMER SESSION

1970 — Six-Week: June 22-July 31; Three-Week: August 3-21  
 1971 — Six-Week: June 21-July 30; Three-Week: August 2-20



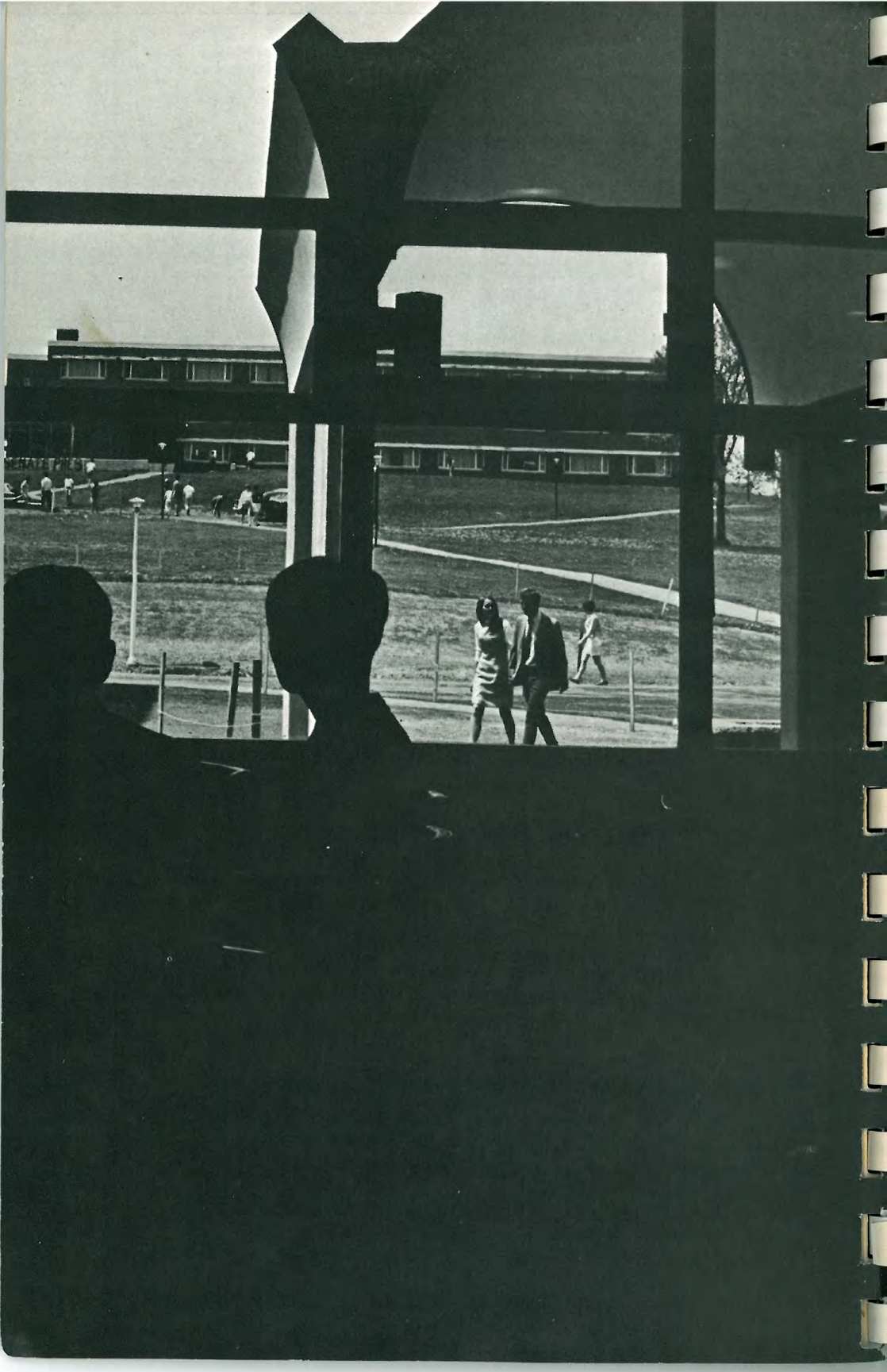


# GORHAM STATE COLLEGE

OF THE UNIVERSITY OF MAINE  
FOUNDED 1878

CATALOG FOR 1970







Russell Hall

## 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 103rd Maine Legislature in 1968 created a state university system and the College became Gorham State College of the University of Maine.

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 1,350 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. The first Bachelor of Arts degrees were awarded in June, 1969.

A program to prepare music teachers and supervisors was instituted in 1956 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, Elementary, and Secondary Education, and the special fields of Art, Industrial Arts, and Music Education. An additional purpose is to provide a liberal arts program for a limited number of students.

### 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.



Student Dining Center — Under Construction

### 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.



# Major campus buildings include:

- **Bailey Hall** — Named for the third President of the College, Dr. Francis L. Bailey.

**Science Wing (1958)** — Contains the classrooms, laboratories and offices of the Biological and Physical Sciences Department, greenhouse, and a science museum maintained by faculty and students and available to visitors upon request.

**Library Wing (1961)** — The building contains a 55,000 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.

**Classroom Wing (1969)** — Contains offices and classrooms of the Education-Psychology and Mathematics Departments and a 200-seat multi-purpose lecture hall.

- **Warren C. 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.

- **Anderson Hall (1963)** — Named for Hayden L. V. Anderson, alumnus of the College and former Executive Director of Professional Services, Maine Department of Education. 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 Department. 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-Hastings Halls (1960-1968)** — Named for long-time faculty members Miss Ethlyn Upton and Miss Mary Hastings. Contains lounges and dormitory accommodations for 300 resident women students. First floor Upton Hall 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 Faith Chapel - Art Gallery** — 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.



President and Mrs. Brooks greet freshmen

## Admission to the College

### Academic Standards

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

English .....	4 units
Math .....	3 units*
Sciences .....	3 units**
	(2 lab science)
Social Sciences .....	3 units
Foreign Language .....	2 units
	(one language)
	<b>Total = 15 units</b>

\*4 units recommended for mathematics majors

\*\*4 units recommended for biology and sciences area majors

### 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 February of the senior year. Test scores from comparable examinations will be considered on an individual basis.

1. Those students applying to the kindergarten-primary, elementary, and specialized programs of art, music, and industrial arts must submit the English composition achievement score and a second achievement of their choice.

2. Those students applying to the secondary and liberal arts programs must submit the English composition achievement score and an achievement score in the subject matter in which they plan to major, i.e. history, mathematics, biology, English, social sciences, sciences area. If a candidate plans to major in English, he selects a second achievement test of his choice.



## ADMISSION

### 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

With the exception of candidates applying to the Art, Music, and Industrial Arts programs, interviews are optional for all other students accepted for admission to the college. If students are desirous of an interview they should arrange for one with the Admissions Office.

### 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.

#### 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 college may be admitted to advanced standing at Gorham State College 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 the high school transcript, Scholastic Aptitude Test and achievement scores, a character recommendation from the Dean of Men or Women of the college(s) previously attended.



An admissions interview

### 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 at Gorham State College. Applicants who encounter any difficulty should check with the local high school guidance department or the College Admissions Office to instruct testing centers to forward the results of tests to the Admissions Office.

8. Personality, character, vision, speech, hearing, physical and mental health are basic considerations in admitting an applicant to the College. The Admissions Committee 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

1969-70

Changing costs may require an adjustment of these charges.

#### TUITION:

Maine Resident .....	\$100.00
Non-Maine Resident .....	\$200.00

#### ROOM:

Dormitory Resident .....	\$436.00
Breakage deposit .....	\$ 30.00

#### BOARD:

For all meals served in dormitory .....	\$414.00
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COLLEGE FEE: .....	\$ 65.00
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APPLICATION FEE: (must accompany application) .....	\$ 5.00
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MEDICAL INSURANCE: (optional) .....	\$ 23.00
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BOOKS: (estimated) .....	\$150.00
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#### COURSE FEES:

Art Education Majors	
Freshmen, Sophomores, Juniors .....	\$ 20.00

Industrial Arts Education Majors	
Freshmen, Sophomores, Juniors .....	\$ 20.00

Music Education Majors (includes cost of private lessons) .....	\$240.00
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DIPLOMA FEE: .....	\$ 7.50
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ESTIMATED PERSONAL EXPENSES: .....	\$350.00
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Bailey Hall from the Grove in Winter

### 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.

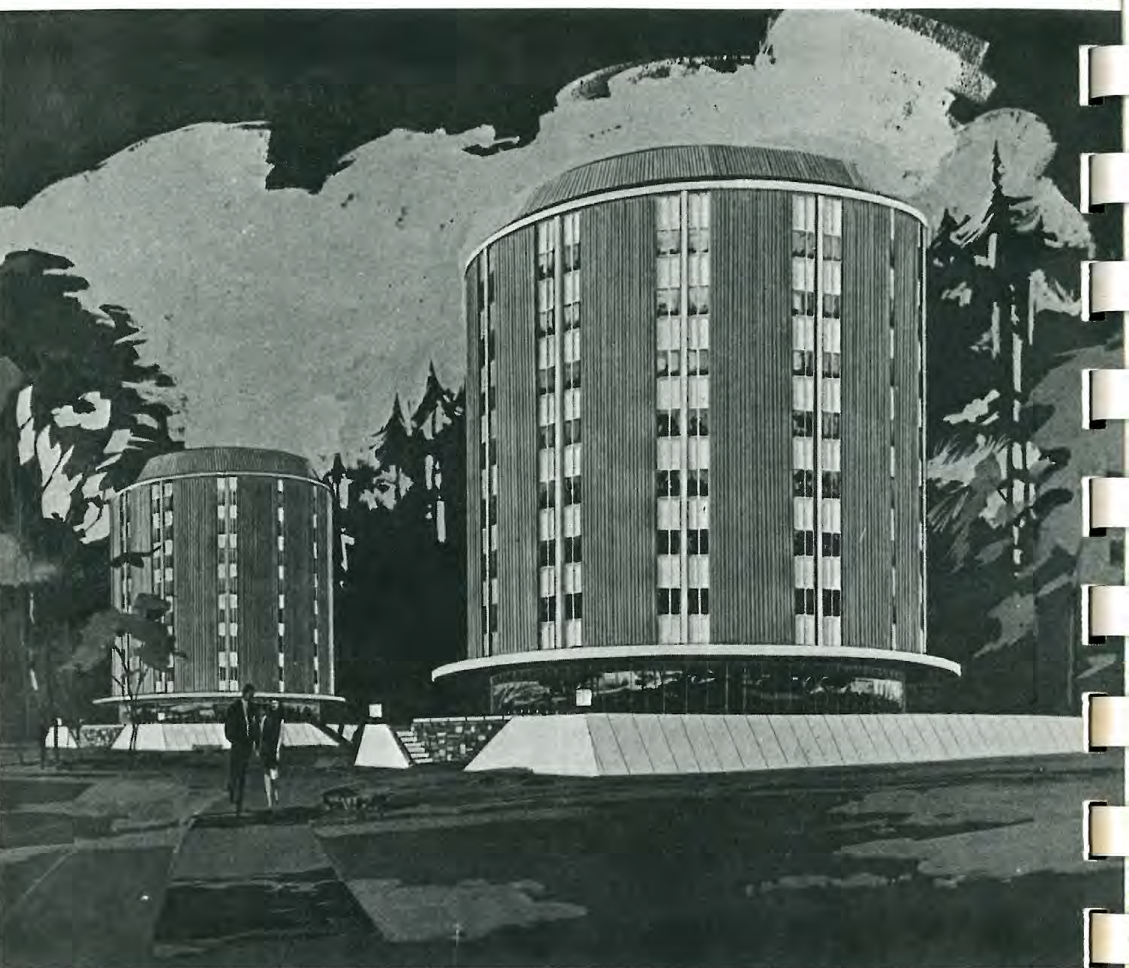
Non-refundable after registration: Student Fees, Course Fees, and Room Rent.

Insurance: Prorated and refund made to student.

Tuition and board:

Two weeks or less in attendance .....	80%
Two to three weeks .....	60%
Three to four weeks .....	40%
Four to six weeks .....	20%
No refund after six weeks.	





High rise student residences — Under construction

# 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 February 1 for the coming academic year. Recipients will be notified at the time of billing, July 15.

### 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. 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. Jobs vary from library assistant, college dining service, secretarial, lab assistants to 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.

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 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	(2) \$100.00
• Frank F. Brown	\$100.00
• Fannie E. Gray	
• Hervey Hanscom	(2) \$100.00

## SCHOLARSHIPS

- **Bailey-Jenkins** **\$100.00**  
Given by Richard Jenkins in memory of his parents and honoring Dr. Bailey.
- **Richard Goodridge** (2) **\$ 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.
- **Gertrude Prinn Scholarship** **\$100.00**
- **Woodward-Alumni Scholarship** **\$ 50.00**
- **Delta Chi Fraternity Scholarship** **\$ 50.00**
- **Kappa Delta Epsilon Sorority Scholarship** **\$ 75.00**
- **American Association of University Professors Scholarship** **\$ 25.00**



Scholarship presentation at Recognition Day





Upton-Hastings Women's Residences

### 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 Anderson Hall, 106. Robie-Andrews Halls house 200 women and Upton-Hastings Halls, 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 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. Students 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 purchase their meals at the College.

Before a room is assigned to a student in the College residence halls, he will be required to sign a residence hall room contract for the academic year or part thereof depending on the date of admission to the residence hall.

All students living in College housing will be required to pay a breakage deposit of \$30 with the first residence payment. This will be returned to the individual when he leaves College housing. If any damage has occurred to the student's room during his occupancy, the student will be held financially responsible for that damage. The breakage deposit will be used to cover such damage.

### Off-Campus Housing Policy

Any student, male or female, who is 21 years of age by the first day of September prior to the opening of college that fall semester or a veteran with two years of military service will be eligible to live off campus in housing of his choice.

Men's dormitory





## STUDENT STANDARDS

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 reserves the right to dismiss a student for actions that disrupt the normal educational process of the institution or for any behavior that brings discredit to the institution and 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, possession or transportation of non-prescribed amphetamines or barbiturates, use or possession of hallucinogens, narcotics or marijuana, 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.

### Withdrawal Procedure

It is essential to keep a record of withdrawals in case some question arises at a later date with respect to refund or grade assigned when the student withdraws. Procedures concerning withdrawal are:

- a. A student must fill out an official withdrawal form in the Dean of Students' Office.
- b. A record shall be made and maintained in the Dean of Students' Office of all within-term withdrawals. Parents shall be notified if the student who withdraws is under 21 years of age.
- c. A copy of the withdrawal slip shall be filed in the student's permanent file.

### College Identification Cards

Plastic identification cards are issued to all students. These cards include the student's name, address, and student identification number. Identification cards are necessary for admission to athletic contests, concerts, lectures, voting in student elections, and social events at the College. The cards are also necessary for use of library facilities. These cards are invalid without the student's signature and they are nontransferable.



Folk concert in Hill Gymnasium

### STUDENT LIFE

The student at Gorham State College is considered to be an active member of the campus community. As such, he or she is encouraged to take an active role and interest in the campus community through social and professional programs, extra-curricular activities, membership on college committees, and participation in college government through the Student Senate and College Assembly.

The College sponsors a number of educational, social and cultural programs including a Concert-Lecture Series, Film Series, Visitation Day, Parents' Day, Beauty Day, Winter Carnival, Miss Gorham State Pageant, Recognition Day, music productions and college plays, convocations, seminars, and special programs.

Students participate with faculty and administrators in the establishment of policy and programs through membership on committees such as Academic and Admission Standards, Curriculum, Library, Activities Calendar and Facilities, Athletics, Orientation, Special Programs, Student Aids, Student-Faculty on Publications, Commencement, Traffic and Parking, Student Affairs Advisory, and Student Exchange.

### STUDENT ACTIVITIES AND ORGANIZATIONS

A student will find numerous extracurricular opportunities on campus vital to his social, cultural, and moral development as a person, citizen, and prospective member of society. A variety of clubs and activities on campus offer educational experience, opportunities for leadership development, and relaxation during leisure hours. Most students soon are able to find a club or organization suited to their particular interests. The campus activities and organizations provide a wide variety of activities — social, athletic, musical, artistic, intellectual, student government, and religious.





Student Senate in session

## STUDENT GOVERNMENT AND COMMITTEES

### Student Senate

The Student Senate is the governing body of student organizations on the Gorham State campus. The Senate seeks "to promote the betterment of Gorham State College by effecting close student, administration, and faculty relationships." It provides students representation for formulating and executing policies pertaining to student life and activities.

The Student Senate coordinates and regulates all student activities on campus. The Student Senate has the responsibility of allocating funds which they receive from the College activity fee to student-supported organizations, for developing college-wide extracurricular programs, for organizing the freshman class, for conducting the student elections, for approving new campus organizations and clubs, and for regulating all campus-student activities and campus-wide student social calendaring.

Each class elects one student senator annually for each fifty students enrolled in the class. The Senate officers are selected by campus election. The Student Senate represents the official voice of the student body.

### Residence Hall Student Government – Interdormitory Councils

The Interdormitory Councils represent the coordinating agency for the resident men and women's student governments. The objective of these councils is the concern for the general welfare and student life of men and women residents, the coordinator of the responsibilities of their governments by promoting, whenever possible, the social, educational, and cultural interest of male and female residence hall students.

## 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 departments 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** — The Drama Club offers students experience in acting, directing, lighting, make-up, and set construction. The Club produces its own plays and sponsors dramatic productions from other institutions.

**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.



Zorach exhibition in the Art Gallery





Carnival royalty



Student expression

## Fraternal, Professional and Honorary Organizations

### FRATERNITIES:

The Interfraternity Council was created by fraternity men at Gorham State to govern and advise all fraternities on the campus. Its intent is to insure the continuity of purpose and high ideals expressed by all fraternities at Gorham through self-government.

Delta Chi fraternity was founded in 1890 at Cornell University. It has over 60 chapters at colleges and universities throughout the country. The Gorham State chapter has built a strong organization while adhering to the philosophy that a close association of college men promotes friendship, develops character, advances justice, and assists in the acquisition of a sound education.

Gamma Rho is the only local fraternity on the Gorham campus. They sponsor various student and community service projects throughout the year along with a professional program related to a teaching career.

Tau Kappa Epsilon was founded in 1899 at Illinois Wesleyan University. TKE attempts to develop the character and ability of each of its members through its annual activities.

Phi Mu Delta, founded in 1918 at the University of New Hampshire, is the oldest fraternal organization at Gorham State College. This organization prides itself in the close ties it maintains with its alumni members.

### SORORITIES:

The Inter-Sororities Council is made up of delegates from each campus sorority. This group serves as a means of communication among the sororities relative to procedures for membership and to the maintenance of standards of social polish and academic achievement.

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.

Phi Mu is a national sorority. The major purpose of the organization is to promote friendship, scholarship, leadership, services and esprit de corps among women students on campus.

**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.





Women's residence lounge

**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.

**PRESIDENTIAL SCHOLARS** — The purpose of the Presidential Scholars is to identify the most outstanding students of the college community and place them in the forefront of activities. The students selected receive a monetary award, serve as personal representatives of the President, and assist him in social and academic functions of his office.

### 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.

**LITERARY MAGAZINE** — The Gorham State Literary Club edits and publishes the College literary magazine. Contributors to the magazine include both students and faculty. The magazine is staffed entirely by students with special interest and skills in editing, layout, advertising, art, photography, and business management.

### Religious Groups

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

**NEWMAN APOSTULATE** — The Newman Apostulate, 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 Apostulate participates in religious, intellectual, and social activities.

**INTER-VARSITY CHRISTIAN FELLOWSHIP** — The Inter-Varsity Christian Fellowship serves to stimulate active participation in the spiritual and religious development of the student body.

**RELIGIOUS AFFAIRS CLUB** — The Religious Affairs Club is an ecumenical group whose purpose is to put forth a positive, active Christian expression as well as to create a dialogue involving the total campus community on the important issues of our times.



### 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.

**COMMUTERS CLUB** — The Commuters Club provides a forum for the benefit and interest of all non-resident students. The Club maintains active participation in various social and educational activities.

**INTERCOLLEGIATE DEBATING TEAM** — The debating team is open to students interested in researching, discussing and debating the National Intercollegiate Question. The teams participate in various debates in the eastern portion of the United States.

**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.

**PSYCHOLOGY CLUB** — The purpose of this club is to increase student awareness in order to improve understanding of human behavior and to lighten the load of those in need whenever possible.

**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.

**SKI CLUB** — The Gorham State College Ski Club provides a healthy outlet for all students interested in winter sports. Along with various weekend ski trips, the Ski Club also sponsors social functions on the campus.

**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.

**VETERANS CLUB** — The Veterans Club is designed to provide greater educational and social development for those students with military experience. The Club maintains a very active interest in service projects for both the community and the College.

**YOUNG DEMOCRATS** — The principal objective of the Young Democrats is to promote political interest on the Gorham campus. The club is particularly active during the election years. A number of club members have been involved with campaigning for candidates for office from the Gorham area.

**YOUNG REPUBLICANS** — The Young Republican Club provides the Gorham student with an opportunity to become active in local, state, New England and national politics. Some of the activities of the club during an election year are political rallies and speakers, campaigning by club members, and club fund raising projects.

A lesson in makeup





Soccer action in the fall . . . precedes another popular sport

### 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, cross country, golf, and tennis. Gorham State is also a member of the National Collegiate Athletic Association and the Eastern College Athletic 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 extensive intramural program for men students. Leagues or tournaments are conducted in soccer, tennis, golf, bowling, flag football, cross country, table tennis, basketball, wrestling, badminton, volleyball, softball, track and field, and bicycle racing.

Team play, sportsmanship and individual participation is encouraged throughout the programs. Trophies are awarded to individual members of the championship team in each sport. Awards are presented to members of the all year championship club.

### Women's Athletic Association

Stressing student leadership, faculty coaching and college-wide participation in athletics, the Women's Athletic Association sponsors sports on an intramural level including archery, badminton, basketball, gymnastics, softball, tennis and volleyball.

Intercollegiate athletics offered are badminton, basketball, field hockey, lacrosse, tennis and volleyball.

### Placement of Graduates

The College maintains a placement service to assist students in securing employment upon successful completion of undergraduate and graduate degree work. The Director of Placement keeps a complete up-to-date set of credentials on all students requesting the use of the Placement Center. These credentials will be forwarded to school officials, government agencies, business and industry upon the request of the graduate.

The aim of this service is three fold — to help each graduate fill the position for which he is best qualified in training, experience and quality, to assist school officials in finding qualified teachers who will meet the needs of their system and to counsel any graduating student in planning and making career choices.

The Office informs students concerning the locations of positions available, salary and arranges personal interviews between candidates and recruiters for positions. The Director plans visitation for seniors before contracts are signed to the schools in which they have professional interest; and guides prospective candidates in preparing credentials, participation in placement interviews and evaluating the desirability of the various teaching situation or other employment. The Director will also make arrangements for interviewers and school officials to come on campus for interviews during the year.

The Placement Office maintains an analysis of Gorham State College graduates by employment, salary, and geographical distribution. This is published each fall and is available in the Placement Office. The Placement Office also maintains off-campus part-time job listings. Students seeking information about placement should contact the Director of Placement.

### 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.



A program conference

## 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 individual faculty members and Deans.

### Attendance Policy

*The attendance policy shall be left to the discretion of the individual faculty member. Each semester, it shall be the responsibility of the faculty member to inform the student in each class of his attendance requirements for that class. A copy of his attendance requirements shall be on file in the office of the Dean of Academic Affairs.*

When a faculty member wishes the Office of the Dean of Academic Affairs to place a student on a no-cut basis or to drop the student from the course with a failing grade due to excessive absences, he must notify the Office of the Dean of Academic Affairs in writing.





Warren G. Hill Gymnasium

### The Grading System

Grades at Gorham State College are given in terms of letters representing 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 student's work in each course is graded as follows:

- A — excellent
- B — above average
- C — satisfactory (average)
- D — unsatisfactory pass — acceptable for credit except in Secondary Education majors and minors.
- F — failure
- P — pass — given only for certain courses open to the pass-fail option. Credits received are not included in grade-point average computation.
- I — incomplete — a temporary grade given when the student, due to extraordinary circumstances, has failed to complete required work. Required work must be completed and a grade submitted within the first eight weeks of the semester following that in which received. An I which is not removed in this period becomes an F.
- WP — approved withdrawal from a course, after the end of the formal drop period, when the student is doing satisfactory work to the date of recommendation for the withdrawal. The WP grade is not considered in grade-point average computation.
- WF — approved withdrawal from a course, after the end of the formal drop period, when the student is doing failing work to the date of recommendation for the withdrawal. The WF grade is treated as an F in grade-point average computation.

### 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. Required courses in the Core Curriculum and in the student's major may not be taken pass-fail. Only one course in the minor may be taken pass-fail.

### Course Credits

Since a minimum of 128 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 advisor and the Office of the Dean of Academic Affairs if a student wishes to carry less or more than the required sixteen hours.

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 by the middle of the following semester 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 and approval through the Office of the Dean of Academic Affairs are required for enrollment. Students must submit to the Registrar an approved independent study application during the semester registration period.

### 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 compute the grade-point average for a semester, divide the total quality points earned by the total credits carried. To compute the cumulative grade-point average, divide the total quality points earned by the total credits carried in all semesters. If a course has been repeated the initial grade remains on the record but does not count toward grade-point average.

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.

**Grade Reports**

Considerable care is taken to ensure that course registrations and grades entered on a student's permanent record are accurate. Any student who, upon receipt of a semester final grade report, suspects an error has been made should take the matter up immediately with the Registrar's Office and the instructor. Records are assumed to be correct if a student does not otherwise report to the Registrar's Office within six months of the completion of a course. At that time portions of the record are to be committed to microfilm, which cannot be amended.



## The Graduate School

The graduate programs at Gorham State College have as their purposes the following:

1. An advanced intellectual challenge to the student;
2. An opportunity for extended depth in scholarship;
3. Assistance in furthering professional competency;
4. An awareness of pertinent research and contemporary development.

Those wishing to pursue graduate courses in the summer session who have not previously enrolled should obtain detailed information before registering.

Descriptive material and application forms are available upon request from the Director of Graduate Studies at the College.

Students who are not candidates for a master's degree at Gorham must receive prior approval from the Dean of Academic Affairs before registering for graduate courses.



## GRADUATE SCHOOL

The programs lead to the degree of Master of Science in Education to be attained by one of the following methods:

### The Classroom Teacher

The requirements of the thesis program are:

- 18 credit hours in general education (liberal arts) courses
- 9 credit hours in professional education courses
- 3 credit hours for the completion of an approved thesis
- 3 credit-hour course in thesis preparation

The requirements of the non-thesis program are:

- 18 credit hours in general education (liberal arts) courses
- 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

### Industrial Arts

12-18 credit hours in general education (liberal arts)

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

### Elementary and Junior High Guidance

12-21 credit hours in core courses

Introduction to School Guidance Services

Introduction to Counseling

Group Process and Procedures

Psychological Measurement and Evaluation

Individual Psychological Testing (Elementary)

Vocational Theory and Information (Junior High)

Internship

Practicum

6-12 credit hours in area electives

1. Related Issues in School Guidance

a. Reading and Other Learning Difficulties courses

b. Family and Community Relations

2. Psychology and Related Courses

3-6 credit hours in Research or Statistics

Comprehensive Examinations

### Elementary and Junior High Administration

12-18 credit hours in liberal arts — Psychology of Learning is required.

3 credit hours in Research Seminar in School Administration

12-18 credit hours in professional education as follows:

a. 3 credits in Administration

b. 3 credits in Supervision

c. 6-12 credits to be elected from the following courses:

School Finance; School Law; School Personnel Administration; Public Relations; Organization & Administration of Guidance Services; and Evaluating Pupil Achievement.

Comprehensive Examinations

## **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.

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 regularly 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
Ms	104e	FA	101e	Psy	300e
Sci	100e - 101e	Fr	100e	Sci	200e
SS	100e - 101e	Eng	200e	SS	202e
SS	200e - 201e	Eng	210e	SS	203e

See catalog for detailed course descriptions.

### Undergraduate Summer Session

Corham 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.

### Elementary

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

### Secondary (7-12)

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

Commencement in Hill Gymnasium





# 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)	
Literature (American, English or World)	(3)	
History and Appreciation of Art		3
History and Appreciation of Music		3
Mathematics (assigned)		3
Physical Education	(Two years)	2
Psychology		3
Speech		2
Sciences		7
Biological Science	(4)	
Physical Science	(3)	
Social Sciences		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)	
		<hr/> 43

## Professional Education

Every student except those in Secondary Education and Music 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
Ms	101	Social Sciences Electives	6
Sci	101	Elements of Mathematics II	3
FA	200	Physical Science II	3
FA	201	Art Fundamentals	2
Eng	350	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

All students in the kindergarten-primary curriculum 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 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 elementary curriculum 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 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 credit hours (24 credit hours in Mathematics) with the exception of majors of 50 credits in Social Sciences, Sciences, Biology and Mathematics.

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

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



# Program for English Majors and Minors

## English Major, Secondary

			Credit Hours
<b>FRESHMAN YEAR</b>			
Eng	100-101	English Composition I and II	6
<b>SOPHOMORE YEAR</b>			
Eng	200-201	English Literature I and II	6
Eng	210	American Literature	3
Eng	250	Speech	2
<b>JUNIOR AND SENIOR YEARS</b>			
Eng	352	Shakespeare	3
Eng	440	History of the English Language	3
Eng	351	Advanced Composition	
	or		
Eng	456	Creative Writing	2
			<hr/> 25
<b>Electives: Choose from the list below at least 11 credit hours.</b>			11
			<hr/> 36

			Credit Hours
FA	104	Theater Appreciation and History	3
Eng	205	World Literature I	3
Eng	206	World Literature II	3
Eng	220	Journalism I	3
Eng	221	Journalism II	3
Eng	222	Argumentation and Debate	3
Eng	230	Fundamentals of Acting	3
Eng	240	History of the Theater	3
Eng	260-263	Intercollegiate Debate	2
Eng	340	Persuasion	3
Eng	345	Speech Correction for the Classroom Teacher	3
Eng	364	Dramatic Production	3
Eng	365	Oral Interpretation	3
Eng	366	Major Writers of the English Enlightenment	3
Eng	380	Introduction to Linguistics	3
Eng	382	Chaucer	3
Eng	383	Sixteenth Century Prose and Poetry	3
Eng	384	Milton	3
Eng	385	Eighteenth and Nineteenth Century English Novel	3
Eng	390	Main Currents in American Literature	3
Eng	452	Fundamentals of Directing	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	458	Modern British and American Poetry to WW II	3
Eng	459	British and American Poetry Since World War II	3
Eng	460	The Contemporary Novel	3
Eng	461	Contemporary Short Story	3
Eng	470	Literary Criticism	3
Eng	499	Independent Study in English	1-6



All English majors are urged, but not required, to balance their English programs by electing six or more credit hours in each of the following three literary periods: Medieval and Renaissance, 17th and 18th centuries, 19th and 20th centuries. Strongly recommended for all English majors, but not required: Linguistics (Eng 380), Literary Criticism (Eng 470), and History of England (SS 400). 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:**

Students may elect a maximum of 10 credit hours in Speech, Debate, and Theater Arts courses toward the 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) :**

Eng 100-101, Eng 200; or 205, or 210, and nine additional hours of English courses either required or elective, for a total of 18 credit hours.



# 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
		Courses outside the American History area	6
			<hr/> 21

Electives: Choose from the list below at least 15 credit hours.

			Credit Hours
			15
			<hr/> 36
			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	369	The Negro in American History	3
SS	373	Introduction to African History to 1900	3
SS	374	Introduction to African History Since 1900	3
SS	375	Contemporary Africa	3
SS	376	The United States and 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	389	German History Since 1870	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	415	Viewpoints in American History	3
SS	460	History of Canada	3
SS	475	United States Foreign Policy	3
SS	499	Independent Study in the Social Sciences	1-6

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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### Secondary History Minor:

A minimum of 18 credit hours to include SS 100-101 and SS 200-201 with the remaining hours to be chosen from the elective courses listed above.

### History Minor (Kindergarten-Primary, Elementary)

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	302	Current Economic Problems	3
SS	350	World Geography	3
			<hr/>
			30

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 20 credit hours from all other departmental offerings.

#### Social Sciences Minor: (Kindergarten-Primary, Elementary)

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

			Credit Hours
Required:			
FRESHMAN YEAR			
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	260	Probability and Statistics I	3
Ms	272	Real Numbers	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	3

30

Electives: Choose from the list below at least 9 credit hours.

9

39

Ms	160	Basic Introduction to Computer Programming	1
Ms	251	Analytic Geometry and 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	388	Mathematical Problem Solving Techniques	3
Ms	389	Seminar in Mathematical Problem Solving Research	3
Ms	390	Topology	3
Ms	460	Computer Programming	3
Ms	471	Foundations of Mathematics	3
Ms	473	History of Mathematics	3
Ms	499	Independent Study in Mathematics	1-6

The area major of 50 hours is offered as an alternative to the regular major-minor program. The area major consists of the required courses of the regular major plus selections from the above to complete 50 hours.

## Secondary Mathematics Minor (24 Credit Hours)

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)

Any 18 hours of mathematics which may include:

Ms	100-101	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 and Liberal Arts—50-Hour Program

FRESHMAN YEAR			Credit Hours
Sci	161-162	Physics I and II	8

### FRESHMAN OR SOPHOMORE YEAR

Select one of each pair:

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

### SOPHOMORE YEAR

Sci	220-221	General Chemistry I and II	8
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### JUNIOR YEAR

Sci	380	Organic Chemistry	4
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Select one from each of the following two groups:

Sci	369	Microbiology	4
Sci	370	Ornithology	3
Sci	372	Ichthyology	4
Sci	367	General Physiology	4
Sci	420	Embryology	4
Sci	450	Genetics	3
Sci	460	Comparative Anatomy	3

### SENIOR YEAR

Select one of each pair:

*Sci	400	Biological Techniques	4
**Sci Ed	360	Teaching Sciences in the Secondary School	3
Sci	258	Ecology	3
Sci	451	Evolution	3

### ELECTIVES:

Any of the above plus:

Sci	157	Historical Geology	3
Sci	259	Conservation	3
Sci	366	History of Science	3
Sci	385	Cell Physiology	3

\*Biological Science majors, liberal arts, are required to take Sci 400.

\*\*Biological Science majors, secondary, are required to take Sci Ed 360.

### Biological Science Minor, Secondary

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





## Program for Sciences Area Majors and Minors

The Sciences 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.

### Sciences Area Major, Secondary

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

### FRESHMAN, SOPHOMORE, JUNIOR, AND SENIOR YEARS

Select at least 38 hours from the following:

		Credit Hours
<b>Group A — 28 Credit Hours Required</b>		
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

# SCIENCES AREA PROGRAM

## Group B – At least 8 credit hours (choose one course from each group).

Sci	250	Vascular Botany	4
Sci	251	Non-Vascular Botany	4
Sci	252	Invertebrate Zoology	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
Sci Ed	360	Teaching Sciences in the Secondary School (also required but not counting toward the 50-hour major)	3

## Electives:

Sci	150-151	Earth Science	6
Sci	258	Ecology	3
Sci	360	Structural Geology	3
Sci	361	Oceanography	3
Sci	367	General Physiology	4
Sci	369	Microbiology	4
Sci	370	Ornithology	3
Sci	372	Ichthyology	4
Sci	373	Mineralogy	3
Sci	380	Organic Chemistry	4
Sci	382	Advanced Physics Laboratory	3
Sci	385	Cell Biology	3
Sci	400	Biological Techniques	4
Sci	420	Embryology	3
Sci	450	Genetics	3
Sci	455	Modern Physics	3

## Physics Minor:

Sci	161-162	General Physics I and II	8
Sci	455	Modern Physics	4
		Electives	6

18

## Electives:

Sci	363	Astronomy	3
Sci	368	Meteorology	3
Sci	361	Oceanography	3

## Sciences Minor – (Kindergarten-Primary, Elementary)

### Required:

Sci	100-101	*Physical Science or its equivalents	6
Sci	200	Biological Science	4

### Electives:

At least 8 credit hours from the following:

Sci	150-151	Earth Science	6
Sci	156	Physical Geology	3
Sci	157	Historical Geology	3
Sci	161-162	General Physics I and II	8
Sci	220	General Chemistry I	4
Sci	250	Vascular Botany	4
Sci	251	Non-Vascular Botany	4
Sci	252	Invertebrate Zoology	4
Sci	253	Vertebrate Zoology	4
Sci	258	Ecology	3
Sci	259	Conservation of Natural Resources	3
Sci	355	Natural Science	3
Sci	361	Oceanography	3
Sci	363	Astronomy	3
Sci	366	History of Science	3
Sci	368	Meteorology	3

\*Students who successfully pass qualifying examinations in chemistry and physics, may take elective courses in the physical sciences.





## 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 I and II	6
Sci	100a	Physical Science Concepts	3
Sci	200	Biological Science	4
SS	—	Social Sciences Elective	3
Ms	104	Mathematical Concepts 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.

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.

## 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	2
Mus Ed	201	2
Mus Ed	300-301	6
Mus Ed	302-303	4
Mus Ed	400	3
	Brass Class	
	Woodwind Class	
	Music Education Methods	
	String Class	
	Administration & Supervision	
		<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	Instrumental and 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 I and II	6
Ms	104	Mathematical Concepts I	3
Mus	100-101	History of Music I and II	6
Mus	102-103	Theory I and II	6
		Applied Music	8
Mus	106-107	Instrumental and Vocal Ensemble	1
Mus	108-109	Recital Class	1
PE	100-101	Physical Education	1
PE	102	College Health	2
			<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	Instrumental and 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	Instrumental and 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
Elective:			
Ed	453	Preparation of Classroom Materials	2
or			
Eng	364	Dramatic Production	3

36 or 37

## 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:

Ms	103	Elements of Mathematics with Applications II	Credit Hours 3
IA	260	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:

IA Ed	300	Analysis and Course Development	Credit Hours 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	Power-Transportation Industries	14
IA 207, 307	Electrical-Electronics Industries	6
IA 208, 308	Graphic Communication Industries	6
IA 104, 150, 152, 204, 309	Service Industries	10
IA 207*, 306*, 307*, 308*	Electives	
IA 410, 411, 412, 413		3
IA 450 through 470		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 Hours	Credit Hours				Class Hours	Credit Hours
Eng	100	English Comp. I	3	3	Eng	101	English Comp. II	3	3
Ms	102	Math I with App.	3	3	Ms	103	Math II with App.	3	3
PE	102	Health	2	2	Sci	100a	Phys. Sc. Concepts	4	3
PE	100	Physical Education	2	$\frac{1}{2}$	PE	101	Phys. Education	2	$\frac{1}{2}$
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	16 $\frac{1}{2}$				<hr/>	<hr/>
									26 17 $\frac{1}{2}$

### SOPHOMORE YEAR

Sci	200	Biological Science	6	4	FA	101	Music Apprec.	3	3
Psy	200	General Psychology	3	3	Eng	—	Literature	3	3
PE	200	Phys. Education	2	$\frac{1}{2}$	Eng	250	Speech	2	2
IA	204	Graphics III	4	2	SS	—	Elective	3	3
IA	205	Wood Tech. I	6	3	PE	201	Phys. Education	2	$\frac{1}{2}$
IA	206	Metal Tech. I	6	3	IA	207	Power & Trans. I	6	3
(IA	207	Power & Trans. I	6	3)	IA	208	Electronics I	6	3
(IA	208	Electronics I	6	3)	(IA	205	Wood Tech. I	6	3)
IA	260	Modern Industry	3	3	(IA	206	Metal Tech. I	6	3)
			<hr/>	<hr/>				<hr/>	<hr/>
			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)					17

## SENIOR YEAR

Ed	402	Student Teaching	12	SS	—	Elective	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
					(Major)	Tech. Elective	6	3
					(Minor)	Tech. Elective	4	2
						G.E. Elective	3	3
			16					
							22	17
Technical Electives								



## The Liberal Arts Program

Upon graduation the student receives the Bachelor of Arts degree. The College offers majors in Biological Science, 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
<b>English</b>		12
English Composition	(6)	
Literature	(6)	
<b>Fine Arts</b>		6
(Choose two of three)		
Art Appreciation and History	(3)	
Music Appreciation and History	(3)	
Theater Appreciation and History	(3)	
<b>Foreign Language<sup>1</sup></b>		0-14
<b>Mathematics or Logic</b>		3
<b>Philosophy</b>		3
<b>Physical Education</b>	(Two Years)	2
<b>Psychology</b>		3
<b>Sciences (one year of laboratory science)</b>		6-8
<b>Social Sciences</b>		12
Ancient and Modern Civilization	(6)	
Two courses <sup>2</sup>	(6)	

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

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

<sup>2</sup> 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, Elementary, Secondary and Liberal Arts

## KINDERGARTEN-PRIMARY — ELEMENTARY MAJORS

Course			Credit Hours
Eng	100-101	English Composition I and II	6
Ms	100-101	Elements of Mathematics I and 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

## SECONDARY MAJORS English

Course			Credit Hours
Eng	100-101	English Composition I and II	6
Ms	104	Mathematical Concepts I	3
Sci	100a	Physical Science Concepts	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

## Mathematics

Course			Credit Hours
Eng	100-101	English Composition I and II	6
Ms	150-151	Analytic Geometry and Calculus I and II	8
Ms	173	Logic and Sets	3
Sci	100a	Physical Science Concepts	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

## History — Social Sciences

Course			Credit Hours
Eng	100-101	English Composition I and II	6
FA	100	Art Appreciation and History	3
FA	101	Music Appreciation and History	3
Ms	104	Mathematical Concepts I	3
Sci	100a	Physical Science Concepts	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

# FRESHMAN COURSE REQUIREMENTS

## Biological Science

Course			Credit Hours
Eng	100-101	English Composition I and II	6
Ms	104	Mathematical Concepts 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

### Required

Sci	161-162	Physics I and II	8
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Required Freshman or Sophomore Year (choose one of each pair)

Sci	250	Vascular Botany	4
Sci	251	Non-vascular Botany	4
Sci	252	Invertebrate Zoology	4
Sci	253	Vertebrate Zoology	4
			<hr/>
			8

### Elective

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29  
3  

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32

## Sciences Area

Course			Credit Hours
Eng	100-101	English Composition I and II	6
Ms	104	Mathematical Concepts 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/>

### Elective

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29  
3  

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32

## LIBERAL ARTS MAJORS

### Biological Science

Course				Credit Hours
Eng	100-101	English Composition I and II		6
FA	100	Art Appreciation and History)	3	
FA	101	Music Appreciation and History)	3	
FA	104	Theater Appreciation and History)	3	Choose 2 6
PE	100-101	Physical Education		1
Sci	161-162	Physics I and II		8
SS	100-101	Ancient and Modern Civilization		6
*Fr	100-101	Elementary French		8
or				
Fr	200-201	Intermediate French		6
**Fr	300-301	French Composition and Conversation		6
				<hr/>
				33-35

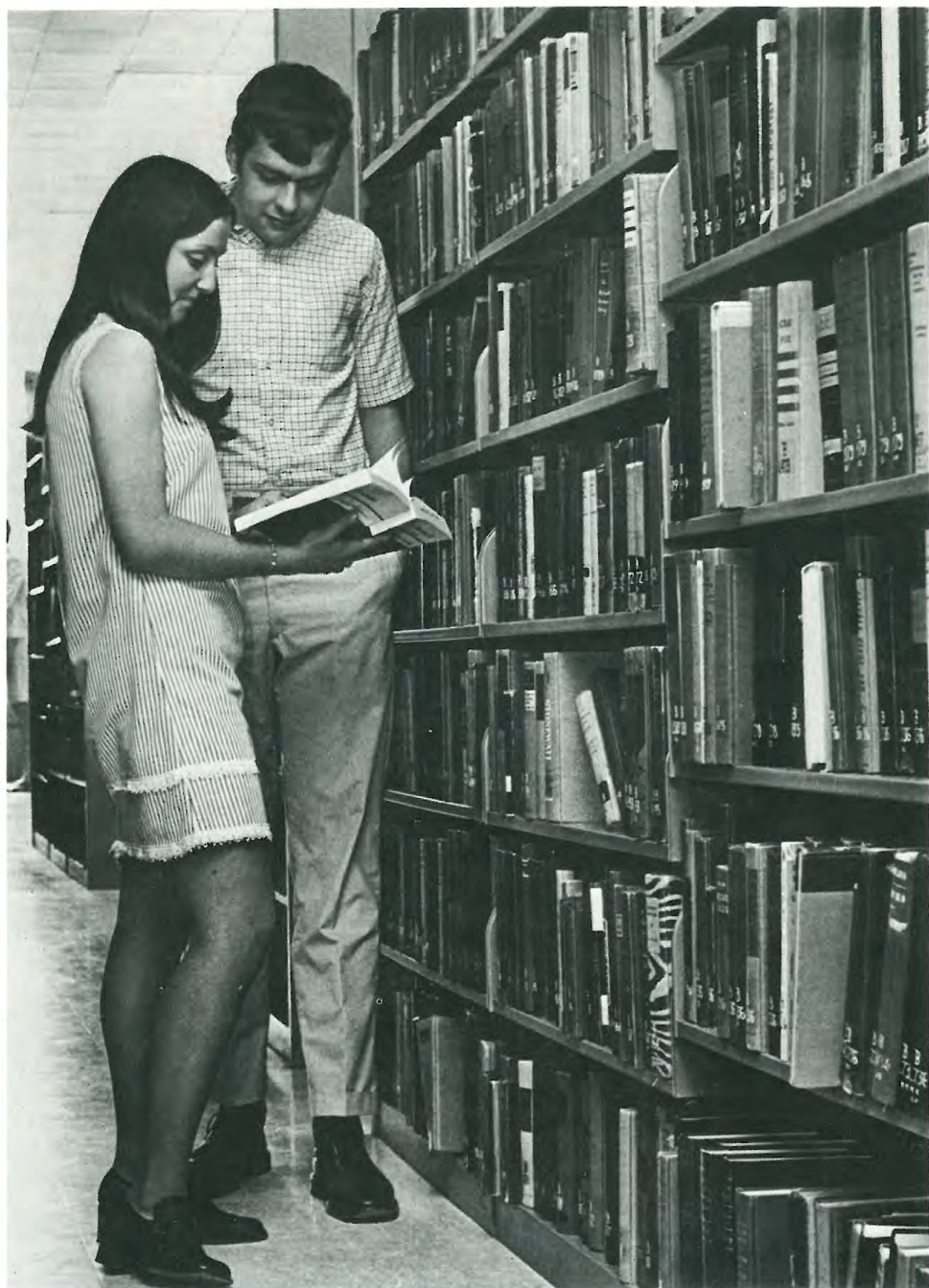


# FRESHMAN COURSE REQUIREMENTS

English				Credit Hours
Course				
Eng	100-101	English Composition I and II		6
FA	100	Art Appreciation and History)	3	
FA	101	Music Appreciation and History)	3	Choose 2 6
FA	104	Theater 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
				<hr/>
				25-29
				+ (3-7 elective credits)

History				Credit Hours
Course				
Eng	100-101	English Composition I and II		6
FA	100	Art Appreciation and History)	3	
FA	101	Music Appreciation and History)	3	Choose 2 6
FA	104	Theater 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
				<hr/>
				31-35

Mathematics				Credit Hours
Course				
Eng	100-101	English Composition I and II		6
FA	100	Art Appreciation and History)	3	Choose one
FA	101	Music Appreciation and History)	3	Freshman 3
FA	104	Theater Appreciation and History)	3	Year
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
				<hr/>
				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

Assistant Professors Miner, Moore, Ubans; Mrs. Sawtelle.

### **FA 100 Art Appreciation and History**

The Staff

Selected experiences using original works, lecture, panel discussions, slides, films, and other means to confront the student with the significance of the visual arts in human history. The aim of the course through its format is to involve the student in direct experiences affecting his own perception of the forces shaping the visual forms of the contemporary world.

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 202 Arts and Crafts I**

Mrs. Sawtelle

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

Three credit hours

**Art 203 Drawing Techniques I**

Mr. Moore

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.

Three credit hours

**Art 260 Handcrafts for the Elementary Teacher**

Mrs. Sawtelle

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.

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.

Three credit hours

**Art 300 Painting Techniques I**

Mr. Ubans

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.

Three credit hours

**Art 301 Graphics**

Mr. Moore

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.

Three credit hours

**Art 302 Arts and Crafts II**

Mrs. Sawtelle

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

Three credit hours

**Art 303 Drawing Techniques II**

Mr. Ubans

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**

Mr. Miner

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.

Two credit hours

**Art 305 Contemporary Art**

Mr. Ubans

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.



## ART

### Art 307 Printmaking

Mr. Moore

Relief printing (woodcut) and intaglio printing (etching and engraving) will be taught in depth as pure fine art processes.

Three credit hours

### Art 310 Drawing Techniques III

Mr. Ubans

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.

Three credit hours

### Art 325 Renaissance and Baroque Art

Mr. Miner

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.

Three credit hours

### Art 400 Painting Techniques II

Mr. Ubans

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.

Three credit hours

### Art 401 Aesthetics

Mr. Miner

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.

Three credit hours

### Art 402 Advanced Problem in Art

The Staff

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.

Three credit hours

### Art 499 Independent Study in Art

The Staff

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

Mrs. Sawtelle

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.

Two credit hours

### Art Ed 301 Secondary Art Education

Mrs. Sawtelle

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

Two credit hours

### Art Ed 400 Problems of Teaching and Supervision

Mrs. Sawtelle

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.

Four credit hours



## Education and Psychology

Professors Cobb, Southworth; Associate Professors Bowman, Gutzmer, Hackett, Hempel, Milbury, Paradise, Mildred Peabody, C. Smith, P. Smith; Assistant Professors M. Costello, Fickett; Mr. Davis, Miss Sanborn, Mr. Small.

### Ed 100 The American School

Mr. Hackett, Mr. Small

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 200 Preprofessional Field Experiences

The Staff

An exploratory introduction to education through direct involvement with youth in public schools or educative agencies. At least two hours per week of field work including biweekly seminar in the school setting. An elective primarily for sophomores with enrollment limited to four sections scheduled on Tuesday or Thursday morning.

Two credit hours

### Ed 300 Primary Curriculum: Methods and Materials

Miss Mildred Peabody, Miss Sanborn  
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, Miss Sanborn  
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

This course will involve the relationship of reading skills to the typical learner, the materials used to teach him, the processes that are common approaches, and various kits used as vehicles. The student also will be exposed to the classroom, both as an observer and a participant in teaching a reading lesson.

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 Secondary Reading

Mr. Charles Smith

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 secondary school.

Two credit hours

### Ed 308 Science and Health for the Primary Teacher

Mrs. Kerr, Miss Vlahakos

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

Mr. Gutzmer, Mr. Hackett

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, Miss Vlahakos

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

Two credit hours

### Ed 340 Teaching Language Arts in the Elementary School

Mrs. Costello

Recent methods and materials basic to the teaching of communication skills. Topics include spelling, handwriting, listening, creative expression, oral and written reporting. Use of tapes, records, filmstrips, and recent language arts books for the elementary school.

Three 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 360 The Role of Education in Social Change

A critical examination of four basic types of social change procedures, with emphasis on the theories that support each, the possible effects of each on persons and the general social order, and the socio-psychological conditions that give rise to social change. The case-study method is used in examining the basic types; theoretical literature is used to provide a working fund of knowledge on the nature of social systems.

Three 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

**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, Miss Sanborn

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 411 Measurement and Evaluation**

Mr. Bowman, Mr. Charles Smith

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 420 Kindergarten Development**

A unique class in that it meets in the kindergarten classroom. Students meet with two classroom teachers who teach theory for one-half of the two-hour class and provide opportunity for the students to observe and participate in class development related to these theories during the second hour. Prerequisite: Ed 300.

Two credit hours

**Ed 428 Atypical Reading Patterns**

Mr. Fickett

The purpose of this course is to give the prospective teacher added depth with the typical as well as the atypical reader. Special areas of emphasis will be speech and reading, dyslexia, Frostig Materials and Vallett Materials.

Three credit hours

**Ed 430 Analysis of Teaching**

Investigation of various approaches to analysis of teacher and student classroom roles. Consideration given to verbal, nonverbal, time, and space factors. Particular systems discussed: OSCAR, Flanders, VICS, Simulation, Micro-Teaching, Galloway Nonverbal, Critical Incidents. Workshop sessions devoted to detailed instruction and skill development of Flanders system. Emphasis placed on students' self analysis.

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 Materials**

Mr. Milbury, Mr. Davis

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

Two or Three credit hours



## EDUCATION/PSYCHOLOGY

### Ed 454 Advanced Production of Audio-Visual Materials

Mr. Milbury, 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

The Staff

To provide juniors and seniors in kindergarten-primary and elementary education 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

### 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. Prerequisite: Psy 200.

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

Basic principles underlying the acquisition and retention of knowledge such as conditioning, memory, forgetting, transfer of training, problem solving, insight, concept formation and individual differences in learning. Brief consideration of learning theories. Emphasis on the application of current principles to human learning. Open to juniors and seniors. Prerequisite: Psy 300.

Three credit hours

### Psy 406 Psychology of Motivation

Mr. Paradise

Nature and determinants of motivation with emphasis given to research focusing on concepts such as drive, activation, arousal, motivational systems, and affect. Brief consideration of motivation theories. Application of current principles of motivation to human behavior. Open to juniors and seniors. Prerequisite: Psy 300.

Three credit hours

### Psy 407 Psychology of Perception

Mr. Paradise

A consideration of current research in the field of perception in such areas as attention, perceptual development, perceptual change, adaptation, perceptual learning, perceptual organization, and the influence of social and motivational aspects. Discussion of concept formation and thinking. Open to juniors and seniors. Prerequisite: Psy 300.

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 Reuter, Rootes, Rutherford, Stump, Weeks; Assistant Professors Pic'l, Rath, Rosen, Sawyer; Mr. Bowden, Mr. O'Reilly, Mr. Vincent.

### FA 104 Theater Appreciation and History

Mr. Stump

A basic course in theater. Designed to familiarize the student with plays of various genre, periods, and styles and the elements of production. Includes the study of the influences of playwrights, production, and dramatic criticism on dramatic art as observed in current theater, cinema, and television.

Three credit hours

### Eng 100 English Composition I

The Staff

In this first half of the basic freshman English course students are habituated to close reading and disciplined writing — descriptive, expository, and argumentative. The focus is on a linguistic and rhetorical analysis of essays, articles, and key passages in the works of successful non-fiction writers both past and present. Although readings are chosen for their controversial value and contemporary relevance, the student's attention is directed primarily to the nature and use of language. Major considerations include levels of English usage, semantics, logical fallacies, propaganda devices, advertising appeals, problems of style and structure, and the importance of the writer's "voice." Conferences, regular writing assignments, and a term paper. Credit is withheld from students who fail to demonstrate satisfactory writing ability. Eng. 100 and Eng. 101 are prerequisite to all other English courses.

Three credit hours

### Eng 101 English Composition II

The Staff

In this second half of the basic freshman English course students develop a more mature and perceptive approach to critical reading and writing through a detailed introduction to three literary genres — the short story, poetry, and drama. Chief course objectives: greater precision in the use of critical terms; a firmer grasp of the relationship between the parts of a literary work and its total structure and meaning; a more just and sensitive interpretation of literary themes; and a more sophisticated and resourceful method of critical evaluation. Conferences with the instructor in preparation for classroom reports, exercises, and critical papers. Prerequisite: Eng 100.

Three credit hours



## ENGLISH

### Eng 120, 121, 122, 123 Theater Workshop

Mr. Rootes

A course designed to give students practical application of theater practices in the field of acting, design, scene construction, costuming, properties, lighting, and makeup. A laboratory course.

One credit hour each

### Eng 200 English Literature I

Mr. Hanna, Mr. Reuter, Mr. Weeks

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

### Eng 201 English Literature II

Mr. Hanna, Mr. Weeks

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

### Eng 205 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 206 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.

Three credit hours

### Eng 210 American Literature

Mr. O'Reilly, Mr. Rath, Mr. Rosen

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 paperbacks supplements text.

Three credit hours

### Eng 220-221 Journalism I and II

Mr. Bowden

A two-semester course providing a general survey of the mass communications media. A study is made of the history of journalism, 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.

The student newspaper, *The Observer*, is utilized as a laboratory with practical experience in the technology of journalism and the techniques of reporting, writing, and editing. Current issues involving the student press are studied. A field trip to a daily newspaper is included. Four class hours: one of lecture and three of laboratory.

Three credit hours each semester

### Eng 222 Argumentation and Debate

Mr. Pic'l

A lecture, discussion, and performance course designed to equip the student with the knowledge and skill to effectively employ logic and evidence in oral discourse. Student will learn the principles and techniques of analysis, development, support, defense and attack in connection with debatable propositions. Practice in argumentative speaking and debating.

Three credit hours

### Eng 230 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 240 History of the Theater

Mr. Stump

Intended to give the student a knowledge of the specific conditions under which the great plays of the western world have been produced. The course is a study of the audience, actors, patrons, physical conditions, architecture, and the relation of the theater to the various arts from the Greek period to modern times.

Three credit hours

**Eng 250 Speech**

Mr. Pic'l, Mr. Rootes, Mr. Stump

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 260, 261, 262, 263 Intercollegiate Debate**

Mr. Pic'l

Participation in intercollegiate competitive debate. This is essentially a laboratory course in which the student receives individual help in preparation for competition. Emphasis is placed upon analysis, research, case development, presentation, refutation, and rebuttal.

One-half credit hour

**Eng 340 Persuasion**

Mr. Stump

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 345 Speech Correction for the Classroom Teacher**

A lecture-discussion course designed to familiarize teacher-trainees with the classification of speech and hearing disorders, voice and diction, and methods of therapy. Emphasis is upon rehabilitation that can be given by the teacher to students in the classroom situation.

Three 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 representative plays: three histories of the Lancastrian epic; four comedies, including a farce, a problem play, a romantic tragicomedy, and a romantic comedy, (alternate semesters, a Roman play substituted for one comedy); two major tragedies. Background reading; discussion of the Elizabethan stage, textual problems, the development of Shakespeare's style; a critical paper.

Three credit hours

**Eng 364 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 365 Oral Interpretation**

Mr. Stump

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 366 Major Writers of the English Enlightenment**

Mr. Weeks

Extensive reading for "Neoclassical": style, tone, and content in England's great age of satire. Dryden's *Essay on Dramatic Poesy* and his chief verse-satires; Pope's *The Rape of the Lock* in relation to his other mock-heroics and his verse-epistles; and a close exploration of Swift's classic *Gulliver's Travels* as a political and personal expression.

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



## ENGLISH

### Eng 382 Chaucer

Mr. Weeks

A close textual study of the most significant English poet of the middle ages, a man who conducted his own "personal Renaissance" a century and a half before the full flowering of that movement in England.

Readings will include all of the *Canterbury Tales* and *Troilus and Criseyde* as well as some of the more significant minor works such as *The Book of the Duchess*, *The House of Fame*, and *The Parlement of Fowles*.

Three credit hours

### Eng 383 Sixteenth Century Prose and Poetry

Mr. Reuter

Readings progress from continental backgrounds of the Renaissance to a survey of English nondramatic literature from Skelton through Spenser. Parallel studies in historical theory, criticism, religious controversy, science, philosophy, language awareness, and the interaction of the Renaissance and Reformation with Humanism.

Three credit hours

### Eng 384 Milton

Mr. Reuter

A comprehensive study of *Paradise Lost*, *Paradise Regained*, *Comus*, *Lycidas*, and *Samson Agonistes* together with selected readings in Milton's polemical prose on such issues as church prelates, divorce, education, and tyrannicide.

Three credit hours

### Eng 385 The Rise of the Novel

A study of the evolving English novel from its sources in epic, romance, and picaresque tale to the great central tradition of eighteenth-century fiction finally threatened by tea-cup sentimentalism and Gothic terror. Chief figures: Defoe, Richardson, Fielding, Sterne, Smollett, Austen, Scott. Oral reports and assigned critiques. Prerequisite: Eng 200 or Eng 201.

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 452 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 453 English Drama, 1580-1642

Mr. Reuter

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 Nineteenth Century English Novel

Miss Sawyer

The monumental works of those novelists largely responsible for England's high-water mark in nineteenth-century world literature: Thackeray, Dickens, the Brontës, George Eliot, Meredith, Hardy, and James. Close structural analysis of the novels as artifacts; thematic analysis of the novels as dramatizations of Victorian dilemmas, moral and spiritual. Oral reports and short written critiques. Prerequisite: Eng 200 or Eng 201.

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**

Mr. Stump

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 458 Modern British and American Poetry to World War II**

Mr. O'Reilly

The major poets who most influenced the poetic sensibility in this century: Pound, Yeats, Eliot, Stevens, Crane, Hopkins, Cummings, Williams, and others.

Three credit hours

**Eng 459 British and American Poetry Since World War II**

Mr. O'Reilly

Poets who came to prominence in the "Forties," "Fifties," and "Sixties": Auden, Spender, Thomas, Roethke, Lowell, Wilbur, Shapiro, and others.

Three credit hours

**Eng 460 The Contemporary Novel**

Mr. Rosen

Works by six or more distinguished novelists expressing contemporary subject matter and technique. Among representative themes students will consider those of dream and illusion, revolution and personal revolt, alienation and anxiety, crime and self-assertion; among narrative techniques, ellipsis and adaptations of stream-of-consciousness. The list of novelists will vary, but recent assignments include Knut Hamsun, Franz Kafka, Thomas Mann, Hermann Hesse, Andre Malraux, D. H. Lawrence, and James Joyce. Students are responsible for a term paper, a classroom report, and a weekly review of some critical article. Prerequisite: Junior Class standing or permission of the instructor.

Three credit hours

Student production of "H.M.S. Pinafore"





## ENGLISH/FRENCH

### Eng 461 The Contemporary Short Story

Mr. Rosen

Detailed consideration of from six to ten short story collections reflecting contemporary themes and narrative methods. Although selections will vary, the recent reading list has included Jorge Luis Borges, Franz Kafka, Anton Chekhov, James Joyce, Thomas Mann, and Isaac Babel. A necessarily wide range of themes are confronted: the corruption of reality by dream; personal inadequacy, alienation, and paranoia; self-deceit; varieties of ignorance and cowardice; the moral insight afforded the artist; violence as a mode of self-discovery. Students are responsible for a term paper, a classroom report, and a weekly review of some critical article. Prerequisite: Junior Class standing or permission of the instructor.

Three credit hours

### Eng 470 Literary Criticism

Mr. Hanna

A seminar in practical literary analysis and evaluation designed specifically for students majoring in secondary English teaching. After a review of literary theories from Plato to T. S. Eliot, of tendencies from Romanticism to Existentialism, students focus on seven modern critical approaches. The bulk of the semester is devoted to critical evaluations of a large body of poems, short stories, novels, and plays now read in the nation's more progressive high schools. The "approaches" will be historical, biographical, textual, formal, psychological, archetypal, and exponential. Prerequisite: at least one "period" or "figure" course in English.

Three credit hours

### Eng 499 Independent Study in English

The Staff

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.

Six credit hours  
(Three each semester)

### 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 R. Costello; Associate Professors Goodwin, Hodgdon; Assistant Professor Bouchard; Mr. Thomas, Miss Vlahakos.

### FA 300, 301, 302, 303 Contemporary Dance

Miss Goodwin

A course involving the technique of modern dance; beginning, intermediate and advanced depending on the degree of competency; work in choreography; program planning; use of music in dance; history of the dance. Open to men and women students. Permission of instructor required.

One-half credit hour

### PE 100-101, 200-201 W

The Staff

A service program required of all freshmen and sophomore women offering elective courses in archery, badminton, fencing, golf, swimming, skiing, tennis, track and field, basketball, field hockey, lacrosse, softball, volleyball, modern dance, folk dance, officiating, slimnastics and gymnastics.

One-half credit hour

### PE 100-101, 200-201 M

The Staff

A service program required of all freshmen and sophomore men offering elective courses in archery, badminton, fencing, golf, swimming, skiing, tennis, softball, volleyball, modern dance, folk dance, officiating, gymnastics, weight training and conditioning, bowling, soccer, and jogging.

One-half credit hour

### PE 102 College Health

Miss Vlahakos

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 350 Teaching Physical Education in the Elementary School**

Miss Goodwin

Course is designed to help the prospective teacher in planning balanced units of instruction to meet the needs of boys and girls — keeping in mind the importance of engaging in activities which present challenges, having opportunities to be creative and participating in the planning. Children from grades one through six are part of the experience. Activities based on movement skills are stressed. Also traditional and contemporary dance movements, movement exploration, creative activities.

Three credit hours

### **PE 353 M Coaching, Philosophy and Fundamentals**

Mr. Bouchard

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 Elementary School Physical Education**

Mrs. Hodgdon

Discussion of the principles of planning well-balanced programs of physical education for grades one to six. Opportunity for organizing and teaching activities to elementary age students. Special emphasis upon fundamental skills, sports, games and gymnastics and how to teach them in the elementary school program.

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

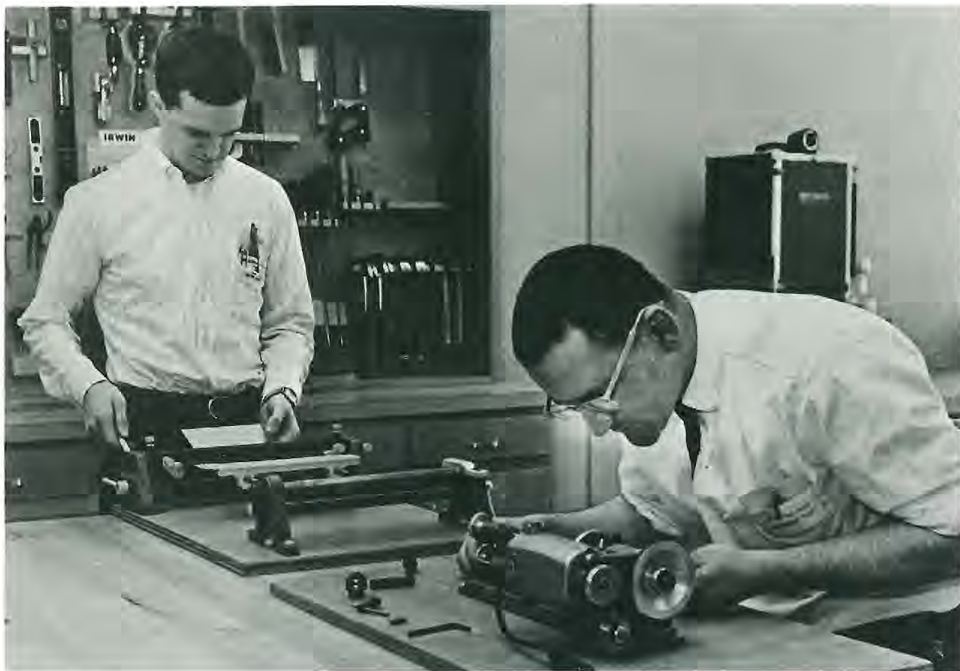
### **PE 451 Organization and Administration of Physical Education**

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; Associate Professors Mertens, Slocum; Assistant Professor Warren; Mr. Carter.

### IA 103 Introduction to Technology

Mr. Mertens

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

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

Mr. Mertens

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



## INDUSTRIAL ARTS

### 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

Mr. Greer

### IA 204 Graphics III

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

Mr. Warren

### IA 205 Wood Technology I

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

Mr. Berry

### IA 206 Metal Technology I

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

Mr. Carter

### IA 207 Power and Transportation I

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

Mr. Slocum

### IA 208 Electronics I

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

### IA 260 Modern Industry

Mr. Mertens

Evolution and structure of modern American industry and its impact upon the social, economic, and cultural milieu. Major areas and functions of industry explored include: personnel administration, research and development, production, finance, marketing, and service. Industrial visitations and reports.

Three credit hours

Mr. Warren

### IA 305 Wood Technology II

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

Mr. Berry

### IA 306 Metal Technology II

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

Mr. Carter

### IA 307 Power and Transportation II

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

Mr. Slocum

### IA 308 Electronics II

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

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**

Mr. Mertens

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. Slocum

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



## INDUSTRIAL ARTS

### IA 450 Graphics IV

Mr. Greer

A graphical method for solving space or solid analytical geometric problems. Applications of spatial relationships are made to structures and machine components in terms of motion, strength, and total effects.

Two credit hours

### IA 451 Materials Testing

Mr. Mertens

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. Slocum

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

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

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

### 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 470 Computer Technology

Mr. Slocum

A study of how modern digital computers actually perform the tasks assigned to them. Binary logic and basic machine language for the IBM 1620 computer are stressed. Other topics include solid state digital circuitry, (prior electronic knowledge is not assumed); scientific, industrial, and teaching applications, characteristics and capabilities of several large computer systems.

Three credit hours

## INDUSTRIAL ARTS

### **IA 499 Independent Study in Industrial Arts**

The Staff

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

Evaluation of contemporary curriculums in industrial arts. Analysis of objectives and methods of developing courses utilizing resource, experience and other instructional units which reflect the needs and interests of students and society. Course of study preparation including teaching units. This course must immediately precede IA Ed 350.

Three credit hours

### **IA Ed 350 Methods and Materials of Instruction**

Classroom and laboratory experience involving the nature and direction of learning. Unit teaching including preparation and use of concept teaching plans, sensory materials and devices. Mini-lessons, video-taped presentations and critiques, classroom control, and an introduction to evaluation techniques. Observation and participation teaching. Orientation to student teaching. Prerequisites: Psy 300, 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 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; Visiting Professor Eves; Associate Professor Estes; Assistant Professors Moulton, Mary Peabody; Mr. Bradbard, Mrs. Paras, Mr. Soychak.

## Ms 100-101 Elements of Mathematics I and II

The Staff

A basic two course sequence of special interest to prospective primary and elementary teachers with major emphasis on an intuitive approach to the structure of the real number system. Other topics studied briefly are sets, logic, equations, inequalities, number theory and the nature of proof. Ms 100 is a prerequisite for Ms 101.

Three credit hours

## Ms 102-103 Elements of Mathematics with Applications I and II

Mr. Fish

Includes the traditional topics of freshman college mathematics: equations, scientific notation, fractions and operations, functions and graphs, systems of linear equations, quadratic equations, logarithms, trigonometric functions, and complex numbers. After the completion of each topic, applications are made in several fields. Ms 102 is a prerequisite for Ms 103.

Three credit hours

## Ms 104-105 Mathematical Concepts I and II

Mr. Estes, Mr. Bradbard

Introductory courses for secondary and liberal arts students not majoring in mathematics, providing an overview of current uses of mathematics. Topics such as sets, logic, calculus, probability, statistics, linear algebra, linear programming, logarithms, exponentials, abstract systems, computers, and graphs may be covered. Ms 104 is a prerequisite for Ms 105.

Three credit hours

## Ms 120 College Algebra

Mrs. Paras, Mr. Soychak

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

Three credit hours

## Ms 121 College Trigonometry

Mrs. Paras, Mr. Soychak

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

Three credit hours

## Ms 150 Analytic Geometry and Calculus I

Mr. Fish, Mr. Bradbard, Mr. Soychak

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, Mr. Bradbard, Mr. Soychak

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

Four credit hours

## Ms 160 Basic Introduction to Computer Programming

Mr. Estes

Introduction to flow diagrams, FORTRAN or BASIC, Input-Output devices, operation of the 1620 computer or a terminal, and programming. No mathematical prerequisite.

One credit hour

## Ms 173 Logic and Sets

Mr. Bradbard

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

## Ms 220 Introduction to Statistics

Mr. Fish

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. Moulton

Polar coordinates, geometry of three dimensions, infinite series, partial differentiation, applications. Prerequisite: Ms 151 or consent of instructor.

Four credit hours



**Ms 251 Analytic Geometry and Calculus IV**

Mr. Moulton

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 I and II**

Mr. Fish

A two-semester sequence in probability and statistics including such topics as the normal, binomial, poisson, chi-square, and F distributions. Also regression, correlation, and other applications.

Three credit hours

**Ms 272 Real Numbers**

Mr. Eves

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. Eves

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)



## MATHEMATICS

### Ms 370 Abstract Algebra

Mr. Estes

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. Estes

An introduction to matrices and their applications in solving systems of linear equations.

Three credit hours

### Ms 380 Theory of Numbers

Mr. Estes

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 388 Mathematical Problem Solving Techniques

Mr. Estes

Study of a variety of techniques used in the solution of verbal problems from algebra and calculus, geometric problems, non-verbal problems, and the use of analogies. Special emphasis will be given to Polya's Method. Prerequisites: Calculus or the permission of the instructor.

Three credit hours

### Ms 389 Seminar in Mathematical Problem Solving Research

Mr. Estes

Study of research concerning various approaches to problem solving in mathematics with emphasis on research. Study of research designs and construction of a design for a research project. Prerequisites: Ms 388 and Statistics or permission of the instructor.

Three credit hours

### Ms 390 Topology

Mr. Eves

Elementary general topology, including topological spaces, mappings, compactness, nets, and product, metric, function, and Peano spaces. Prerequisite: Ms 250.

Three credit hours

### Ms 460 Computer Programming

Mr. Estes

A study of programming in the FORTRAN language with emphasis on the solution of the problems using logic and flow diagrams. Other programming languages will be discussed by analogy. Students will learn to operate the computer, to run their programs on the computer, and should expect to spend several hours per week at the computer center. Prerequisites: Calculus and Statistics or permission of the instructor.

Three credit hours

### Ms 471 Foundations of Mathematics

Mr. Eves

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

Mr. Eves

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

The Staff

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 School

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. Chamberland, 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



## MUSIC

### Mus 102 Theory I

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

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

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, 208, 308 Instrumental Ensemble

Performance techniques on instruments of primary and/or secondary interest to each student. Principles of ensemble training are exemplified. The repertoire consists of selections from various periods and styles and is varied from year to year in order to cover a considerable range during the student's attendance. Mr. Bowder

### Mus 107, 209, 309, 403 Vocal Ensemble

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. Mr. Chamberland

One-half credit hour

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

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

One-half credit hour

### Mus 200 History of Music III

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. Mr. Cole

Three credit hours

### Mus 201 History of Music IV

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. Mr. Cole

Three credit hours

### Mus 202 Theory III

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. Mr. Bowder

Three credit hours

### Mus 203 Theory IV

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. Mr. Bowder

Three credit hours

### Mus 220 Class Piano

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. Mr. Cole

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**

The Staff

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

**Mus 501 Concert Band**

Mr. Bowder  
no credit

**Mus 505 The Gorham Chorale**

Mr. Chamberland  
no credit



## MUSIC/PHILOSOPHY

<b>Mus 509 A Cappella Choir</b>	Mr. Cole no credit
<b>Mus 510 Chamber Orchestra</b>	Mr. Bowder no credit
<b>Mus 511 The Chamber Singers</b>	Mr. Chamberland no credit
<b>Mus 513 Brass Ensemble</b>	Mr. Cole no credit
<b>Mus Ed 200 Woodwind Class</b> Methods of teaching woodwind instruments; practical experience on various woodwinds; and elements of transposition.	Mr. Bowder  Two credit hours
<b>Mus Ed 201 Brass Class</b> Methods of teaching brass instruments; practical experience on various brasses; and elements of transposition.	Mr. Bowder  Two credit hours
<b>Mus Ed 300 Elementary Music Methods and Materials</b> 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
<b>Mus Ed 301 Secondary Music Methods and Materials</b> 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
<b>Mus Ed 302 String Class</b> 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
<b>Mus Ed 303 String Class</b> 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
<b>Mus Ed 320 Rhythmic Activities in the Elementary School</b> 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
<b>Mus Ed 400 Music Administration and Supervision</b> 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

## Philosophy

### Pl 100 Introduction to Philosophy

This course introduces some of the enduring questions that have concerned the mind and conscience of man in his abiding quest for understanding. Philosophy is viewed as an activity by which man seeks to understand the nature of his relationships with the universe, humanity, and self. The major areas of philosophic concern such as existence, knowledge, and values will be developed within the context of selected problems. Required of Liberal Arts majors.

Three credit hours



## Sciences

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

### Sci 100-101 Physical Science

Mr. Hare, Mr. Pendleton

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, Mr. Maurice Whitten, Mr. Ayers

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



## SCIENCES

### 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, one-semester, biology course in which the major concepts discussed include: evolution, heredity, energy transformation, development, ecology, and the dynamics of animal and plant function. Three hours of lecture and one three-hour lab weekly. Prerequisite: Sci 100-101, or 100a.

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. 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. 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

### 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. 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

**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 General Physiology**

Miss Schwinck

Principles of metabolism in plants, animals, and microorganisms with emphasis on the experimental approach. Prerequisite: Sci 220-221 or with instructor's permission.

Three one-hour lectures and one three-hour laboratory

Four credit hours

**Sci 368 Meteorology**

Mr. Hare

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. Dorsey

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

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. Prerequisite: Sci 253.

Four credit hours



## SCIENCES

### 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

### 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 382 Advanced Physics Laboratory

Mr. Grass

A laboratory research investigation of an approved topic in physics using the facilities of the College laboratories and/or those of industrial and professional laboratories.

Three credit hours

### Sci 385 Cell Biology

Miss Schwinn

Structure and function of cells on the cellular, subcellular and molecular levels. Prerequisite: Sci 367.

Three 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.

Four credit hours

### Sci 420 Embryology

Mr. Neuberger

A study of animal development emerging from an analysis of cell division, gametogenesis, organogenesis, growth, and differentiation.

Two hours of lecture and four of laboratory.

Four credit hours

### Sci 450 Genetics

Mr. Neuberger

A study of the principles of heredity in plants and animals with emphasis upon recent gene and chromosome research.

Three credit hours

### Sci 455 Modern Physics

Mr. Grass

Selected topics in modern physics, atomic structure, spectra, relativity, the de Broglie 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

The Staff

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 Gorham State College, Farmington State College, the Orono Campus of 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 Bibber, Dickey, Schleh, J. Whitten, Wood; Assistant Professors French, Hodges, Ventresco, Witherill; Mr. McIntyre, Mr. Moberg.

### SS 100 Ancient Civilization

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, Miss Dickey, 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 Bibber, Miss Wood

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 Bibber, Miss Wood

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. French, Mr. Hodges

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. Lacognata, Mr. McIntyre

To familiarize students with scientific orientation to human social behavior. To develop greater social awareness of human social systems. Foci of course materials on basic concepts, methodology, and empirical findings.

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. Junior or senior status or permission of instructor.

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

An in-depth study and application of economic principles to some of the outstanding economic issues of society. These include poverty; the economics of pollution control; problems of the city — including transportation, metropolitan organization and finance; and problems of labor — such as automation and unemployment. Prerequisite: SS 300.

Three credit hours

### SS 350 World Geography

Mr. French

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

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

**SS 353 Geography of Anglo-America**

Mr. French

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.

Three credit hours

**SS 354 Diplomatic History of the United States I**

Miss Wood

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

Three credit hours

**SS 355 Diplomatic History of the United States II**

Miss Wood

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.

Three credit hours

**SS 356 History of Russia**

Mrs. Young

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.

Three credit hours

**SS 357 History of the West**

Miss Wood

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.

Three credit hours

**SS 358 The Bible**

Miss Dickey

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.

Three credit hours

**SS 362 Geography of Europe**

Mr. French

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.

Three credit hours

**SS 363 Twentieth Century United States**

Mr. Emerson

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.

Three credit hours

**SS 364 Civil War and Reconstruction**

Mr. Emerson

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.

Three credit hours

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

Mr. Emerson

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.

Three credit hours

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

Mr. Emerson

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.

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 369 The Negro in American History

Mr. Emerson

A chronological survey of the position and role of the Negro in American society from the colonial period to the present. Major topics considered will include: The Negro in Slavery, the free Negro before the Civil War, the Jim Crow system, racism, social and cultural contributions of the Negro, Black Nationalist Movements, the Constitution and the Negro, the Civil Rights movement, etc.

Three credit hours

### SS 373 Introduction to African History to 1900

Mr. Schleh

Survey of African history from early migrations to the beginning of the colonial era. Approach is both regional, stressing selected countries representative of their regions, and topical, cutting across political boundaries (e.g. states of the Sudan, city states of East Africa), role of Islam, conduct and impact of the slave trade, exploration, and partition.

Three credit hours

### SS 374 Introduction to African History Since 1900

Mr. Schleh

Survey of the colonial era, the transformation of African societies, the rise of nationalist movements, wars of liberation, and early years of the new era of independence.

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 376 The United States and Africa

Mr. Schleh

A history of United States' interests in the relations with Africa from the early seventeenth century to the present. Areas covered include commerce, social and humanitarian contracts, Americans' roles in the exploration and exploitation of Africa, and diplomacy.

Three credit hours

### SS 380 Social Problems

Mr. Lacognata

Analyses of contemporary American social movements, forces, and changes. In-depth research findings on patterns of social interaction in family systems, educational systems, and value systems.

Three credit hours

### 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. Prerequisite: 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 100 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**

Miss Dickey

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 389 German History Since 1870**

Mrs. Young

A study of the German Empire, its dissolution in 1918, the Weimar Republic, Hitler's Third Reich, Germany in World War II, and divided Germany since 1945. Includes a study of cultural and social factors which help explain Germany's role in the modern world.

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. Prerequisite: SS 101.

Three credit hours

**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



## SOCIAL SCIENCES

### SS 415 Viewpoints in American History

Miss Bibber

A seminar involving discussions of selected topics in United States history, with emphasis on varying interpretations of trends and events. Students will read and analyze both traditional and more recent views, noting changes in frames of reference, methodology, and general approach. Prerequisite: Twelve hours of U.S. history.

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

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.

Three credit hours

### SS 451 Marriage

Mr. McIntyre

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.

Three credit hours

### SS 452 Criminology

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

### SS 453 Political Thought

Mr. James Whitten

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.

Three credit hours

### SS 454 International Relations

Mr. Schleh

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.

Three credit hours

### SS 455 Political Geography

Mr. Hodges

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.

Three credit hours

### SS 456 Economic Geography

Mr. Hodges

Economic Geography examines the economic activities of people in different parts of the world. The approach to the subject is topical, and focuses upon agricultural systems, forestry, mining, industry, transportation and commerce. Special emphasis is given to a comparison of the economic attributes of the underdeveloped countries and the more advanced countries.

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. Aspects of culture are emphasized: art, music, religion, economics, and the mores.

Three credit hours

**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

**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

**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

**SS 475 United States Foreign Policy**

A detailed evaluation of U.S. Foreign Policy focusing on such topics as: identification of U.S. Foreign Policy; governmental agencies and personalities in the formation and implementation of policy; the role of nongovernmental influences. All aspects of course designed to evaluate current policy goals and practices in terms of long-range goals. Prerequisite: SS 204.

Three credit hours

**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

**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.

One to 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.

Three credit hours





# Administration of the College

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SCIENCES AND MATHEMATICS .....	Robert N. Miller
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## 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

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- BEAUREGARD, MICHAEL J. (1968) Registrar; Michigan State University, B.S., 1959; Yale University, M.F., 1960
- 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
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- BOUCHARD, JOEY A. (1968) Assistant Professor of Physical Education; Springfield College, B.S., 1960, M.Ed., 1961; Boston University, C.A.S., 1968
- 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
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- BRADBARD, DAVID A. (1969) Instructor of Mathematics; University of New Hampshire, B.S., 1964, M.S., 1969
- BRADY, JAMES B. (1969) Technical Services Librarian; State University of New York at Albany, B.A., 1967, M.L.S., 1969
- BROOKS, KENNETH T. H. (1959) President of the College; University of New Hampshire, A.B., 1947; Boston University, Ed.M., 1948, Ed.D., 1955
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- HODGDON, PAULA D. (1967) Associate Professor of Physical Education; Lasell Junior College, A.A., 1948; Beaver College, B.A., 1950; Teachers College, Columbia University, M.A., 1952
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- MERTENS, ROBERT P. (1967) Associate Professor of Industrial Arts; State University College of New York at Buffalo, B.S., 1958, M.S., 1963
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- WISE, WILLIAM B. (1966) Assistant to the Dean of Academic Affairs, Director of Evening College; University of Maine, B.S., 1961
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- 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



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