

1963

## Gorham State Teachers College Catalogue 1963 - 1965

Gorham State Teachers College  
*University of Southern Maine*

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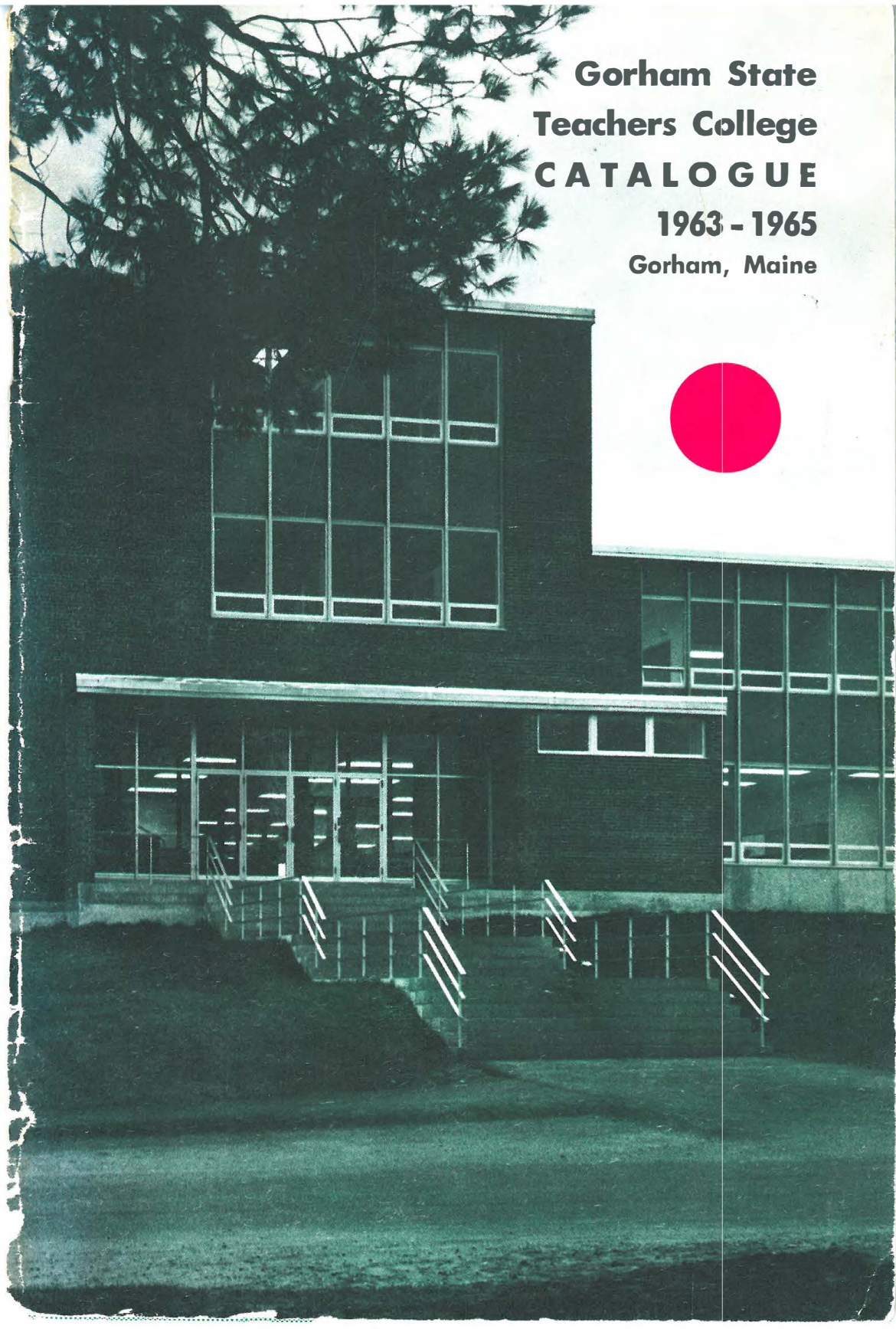
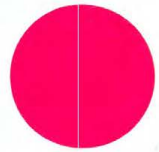
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**Gorham State  
Teachers College  
CATALOGUE**

**1963 - 1965**

**Gorham, Maine**









**Gorham State  
Teachers College  
CATALOGUE  
1963 - 1965  
Gorham, Maine**

Accredited by the New England Association of  
Colleges and Secondary Schools.

Member of:

American Council on Education  
American Association of Colleges for Teacher Education  
Association of State Colleges and Universities







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Gorham State Teachers College had its official beginning in 1878 when the legislature approved the establishment of a normal school on the site of the Gorham Female Seminary. Opening on January 29, 1879, with six faculty members and eighty-five students, the college has developed over the years to its present size of over 800 students and 65 faculty and staff.

## History of Gorham State Teachers College

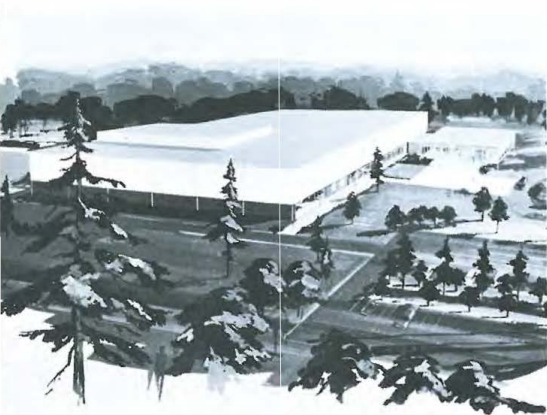
The rapid physical growth of the college from only one building to its present campus of approximately 70 beautifully landscaped acres and fourteen buildings is paralleled by the rapidly expanding curriculum. Highlights of the college's development are as follows:

- 1806 — Gorham Academy incorporated
- 1836 — Gorham Seminary completed
- 1878 — Gorham Seminary presented to the State of Maine for use as dormitory; William Corthell appointed as first principal; Recitation Hall built (later renamed Corthell Hall)
- 1880 — First class graduated (nicknamed the Strawberry Class)
- 1894 — Seminary building destroyed by fire
- 1895 — Academy building given to the State of Maine (oldest building on campus)
- 1897 — Robie Hall (women's dormitory) constructed
- 1905 — Dr. Walter E. Russell appointed as second principal; Corthell Hall enlarged
- 1906 — President's home built
- 1911 — Industrial Arts program started at Gorham
- 1913 — Brick Shop opened
- 1916 — East Hall built (renamed Andrews Hall in May, 1956)
- 1926 — Campus School constructed
- 1927 — First class graduated from Kindergarten - Primary program





- 1931 — Russell Hall completed
- 1938 — First graduates of four-year program awarded degrees
- 1940 — Dr. Francis L. Bailey appointed president
- 1945 — Name changed from Normal School to Gorham State Teachers College
- 1955 — Program for preparation of music teachers and supervisors added to the curriculum
- 1955 — Woodward Hall completed (dormitory for men)
- 1958 — Program for preparation of art teachers and supervisors added
- 1958 — Science wing of Bailey Hall completed
- 1960 — Upton Hall completed (dormitory for women)
- 1960 — Dr. Kenneth T. H. Brooks appointed president
- 1961 — Library wing of Bailey Hall completed
- 1961 — Gorham Town Hall donated to the State of Maine by the Robie family (building to be used by college for students' chapel)
- 1962 — Construction started on new Physical Education plant and Men's Residence Hall; Central Heating plant built.



Physical Education Plant



New Men's Dormitory

**Location** The Town of Gorham is pleasantly located in the heart of a rich cultural and recreational area of Maine. The city of Portland is only ten miles from Gorham providing students of the college with many supplementary educational facilities. In addition, because of the proximity of Boston which is only 100 miles distant, instructors at the college enrich their teaching through trips to this city. The Sebago Lake Region, nationally known for its recreational facilities, is only 12 miles from the college. Thus all winter and summer sports are part of the extra-curricular experiences of students.



Situated on a pleasantly landscaped hill overlooking the town of Gorham, the college has come to be known as "The College on the Hill," and the athletic teams as the "Hilltoppers." The quiet serenity of this residential town makes the community an ideal setting for the college. The students and faculty of the college become an integral part of the town through church, educational and civic activities, and many residents of the town are loyal supporters of college events and activities.

## Campus

The buildings of the campus blend a traditional style of architecture with the modern. Representing the former are Academy Hall; Corthell Hall; two women's residence halls, Robie and Andrews, and the President's home. Russell Hall, named after the second president of Gorham, provides an auditorium and gymnasium.

## Buildings

The modern style buildings include Woodward Hall which is a men's dormitory; Bailey Hall, named after President Bailey who retired in 1960; a women's residence hall opened in September of 1960; a health and physical education plant and another men's residence hall in 1963.

## Woodward Hall



**The  
Evening  
College**

To serve teachers-in-service who wish to earn credits toward an undergraduate degree and to accommodate qualified high school graduates who can not be admitted to the day college because of filled enrollment quotas, Gorham State provides an Evening College. Standard freshman and sophomore courses in English, Science, Mathematics and Social Science are offered nightly from 6:30 - 9:30. Credits earned in the evening college are applicable toward a degree at Gorham State Teachers College after official acceptance for admission to the college.

**Summer  
Sessions**

A six-week summer session is conducted every even numbered year on the Gorham campus. A balanced program of academic and professional courses is offered to teachers who wish to complete degree requirements or earn credits for the renewal of certificates. Undergraduates from other colleges who wish to accelerate their programs or remove deficiencies, and high school graduates interested in self-improvement may also attend. Enrollment in the summer session does not necessarily constitute degree matriculation at the college. All students wishing to apply credits toward a degree must be officially accepted by the college. Credits earned at the summer session are usually transferable to other colleges.

**Industrial  
Arts  
Graduate  
Courses**

A graduate program in Industrial Arts, given under the auspices of the University of Maine, offers advanced work for experienced teachers of Industrial Arts. Admission to this program, which leads to the Master of Education degree, must be obtained by applying to the Dean of Graduate Study, 76 Library, University of Maine, Orono. No student may be admitted to the graduate program in Industrial Arts unless he has received permission from the Dean of Graduate Study. Application for admission should be filed at least six weeks before the registration date.

**Industrial Arts**







The major purpose of Gorham State Teachers College is to provide a continuing supply of graduates to serve public education in the areas of Kindergarten-Primary, General Elementary, Junior High School education, and the special fields of Art, Industrial Arts, and Music education.

**Objectives  
of  
Gorham State  
Teachers  
College**

The college seeks to produce graduates of professional competence and personal character whose careers will reflect concern for an effective program of teacher education based on the following principles:

- A. *Teachers should be people of high intellectual ability.* They should be products of a responsible process of selection and retention.
- B. *Teachers should be cultured people.* They should have a liberal education. They should experience a program of academic excellence providing both breadth through general education and an appreciable degree of depth in the area in which they plan to teach.
- C. *Teachers should be prepared to begin to teach.* They should have basic understandings of (a) human growth and development, (b) the teaching-learning process, (c) the cultural foundations of education, and (d) appropriate student teaching experience.
- D. *Teachers should be professional people.* They should act from a philosophy that indicates insights into their role as educators in a democratic society. They should be committed to continuing personal and professional growth.

**I. Academic Standards**

1. The college recommends the following subjects as minimum academic preparation for students seeking admission to Gorham State Teachers College.
  - a. College Preparatory English 4 units
  - b. College Preparatory Math 1 unit beyond 9th grade Mathematics
  - c. Science 2 units beyond 9th grade Science
  - d. Social Science 2 units
  - e. Foreign Language 2 units
2. All applicants are required to submit scores from the Scholastic Aptitude Test of the College Board Examinations. Test scores from comparable examinations such as the American Testing Program will also be accepted.

**II. Other Standards for Admission**

1. Good physical and mental health—as evidenced by a medical examiner's report.
2. 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.

**III. Interview**

College officials may require a personal interview with the applicant. In the areas of Art, Industrial Arts and Music Education, the interview is required.

**IV. Additional Requirements for Admission to Areas of Specialization**

**1. Art**

Each applicant for admission to the Art Education Program must present a portfolio of his art work to staff members of the Art Department at the time of the personal interview.

**2. Industrial Arts**

Applicants for the Industrial Arts Education Program are required to take special aptitude tests at the college, and should have had a minimum of 1 unit in either Industrial Arts or Mechanical Drawing in high school.

**3. 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.

## V. Admission to Advanced Standing

Students who have had a full year or more of study in any of the teachers colleges in Maine may be admitted to advanced standing at Gorham State Teachers College with full credit for work satisfactorily completed. Credit for work in accredited junior colleges, liberal arts colleges, technical schools, universities and summer sessions is granted when the work is of C grade or better and in courses corresponding to those offered at Gorham State Teachers College. Applicants for admission to advanced standing must request that official transcripts be sent to the Director of Admissions from the college attended. Student copies are not acceptable.

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

### **Admission Procedures**

1. Obtain a copy of the college catalogue and the necessary application forms from the Director of Admissions of the college or from the high school principal or guidance counselor.
2. Discuss the advisability of attending Gorham State Teachers 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. Carefully evaluate the decision of entering the teaching profession because each of the programs at Gorham is designed to prepare teachers.
3. Select the teacher education 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. Return the completed medical examiner's report and the \$5.00 registration fee to the Director of Admissions.
6. Submit the most recent scores from the Scholastic Aptitude Test of the College Board Examinations or scores from comparable examinations. Consult the high school principal or guidance counselor for further details.

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



After the Admissions Committee has examined and evaluated the student's records and recommendations, the Director of Admissions will notify the applicant about the committee's decision. If an interview is required, the candidate will be so notified.

If accepted, the student will be required to indicate a housing choice. A deposit of \$30.00, which will be credited to the student's account, is required of all residence-hall applicants.

Admission is not final until the student has satisfactorily completed all high school requirements and has made an initial payment of \$25.00 toward tuition.

<b>Annual Expenses</b>	<b>TUITION:</b>	
	Maine Resident .....	\$100.00
	Non-Maine Resident .....	200.00
	<b>ROOM:</b>	
	Dormitory Resident .....	\$189.00
	Off-Campus Resident (estimated) .....	\$150.00-\$200.00
	<b>BOARD:</b>	
	For all meals served in dormitories .....	\$351.00
	<b>STUDENT ACTIVITY FEE:</b> .....	\$ 25.00
	<b>REGISTRATION FEE:</b> (must accompany application) \$	5.00
	<b>INSURANCE:</b> .....	\$ 14.00
	<b>INFIRMARY FEE:</b> .....	\$ 5.00
	<b>BOOKS:</b> (estimated) .....	\$ 75.00
	<b>COURSE FEES:</b>	
	Art Education Majors (Average of four years) .....	\$ 15.00
	Industrial Arts Education Majors (Average of four years) .....	\$ 30.00
	Music Education Majors (Includes cost of private lessons) .....	\$195.00
	All other students .....	\$ 10.00

(Fees for Industrial Arts and Art Majors vary annually from a low of \$5.00 to a high of \$42.00).

#### **Schedule of Payments**

Applications for dormitory rooms must be accompanied by a \$30.00 deposit in order to hold a room. This amount is applied to the first half-year room payment.

A deposit of \$25.00 which will be applied to the first half-year payment of tuition must be made on or before June 1.

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 September 1.

No refunds will be made unless requested prior to August 1.

Exceptions to the above schedule can be made only upon written request to the Bursar and upon approval by the President of the college.

All checks are payable to Gorham State Teachers College.

Refunds are given only when the student notifies the bursar in writing of his official withdrawal from the college.

### **Refund Policy**

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

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

Insurance: Prorated and refund made to student.

Tuition and board: No refund after 6 weeks.

2 weeks or less of attendance	80%	3 to 4 weeks	40%
2 to 3 weeks	60%	4 to 6 weeks	20%

The college provides living accommodations for both men and women students. Woodward Hall houses ninety-six men; the new men's dormitory, 100; Robie and Andrews Halls, about two hundred women, and Upton Hall, one hundred and fifty women. There is a cafeteria dining room at Upton Hall for all resident students.

### **Housing**

Women students and freshman men must live in the residence halls unless they live at home or in the homes of close adult relatives. Because some men cannot be accommodated in the dormitory, the college maintains a list of approved homes in Gorham in which rooms are available. These men may either contract for all their meals at the college dining room or make their own arrangements off campus. For those choosing to eat at the college the standard college rate will apply.



**Student Aid  
Loans  
and  
Scholarships**

**Federal Loan Program**

The college participates in the program of federal loans provided by the National Defense Education Act of 1958. This act makes it possible for needy students to secure loans under very favorable terms: i.e. repayment and interest begin after graduation; a ten-year period is allowed for repayment; special reductions of the principal based on periods of actual service are made for teachers. Applications for loans under this program are made directly to the college. Good standards of academic scholarship must be maintained to qualify for this aid.

**Maine State Scholarship**

The State of Maine provides funds annually to be used as scholarship aid to Maine residents who are prospective teachers for the state. Applications for these are made directly to the college and at the time of registration in September and are then submitted to the Committee on Student Aid which determines distribution of the funds on the basis of evidence of need, acceptable standards of scholarship, good citizenship, expressed intention of teaching in Maine, and willingness to help one's self. The scholarships are credited only to tuition, board, and room and are finally determined in May.

**New England Loan Program**

Loans up to \$500.00 a year at low interest rates are available through the New England Higher Education Assistance Foundation to students who have satisfactorily completed their first year in college. The entire amount due is repaid in regular monthly payments within 42 months after graduation. Applications for these funds are made directly to the bank of the student's choice in the State of Maine.

**Other Scholarships**

There are also honorary scholarship awards made annually. These are provided by alumni groups and friends and are in recognition of academic achievement, leadership qualities, and exemplary citizenship. They are determined by the judgment of the faculty committee.

**George P. Davenport Student Loan Fund**

This fund was established for the purpose of making small loans to deserving students who are residents of the State of Maine temporarily in need of money to pay for their education. Preference is given to graduates of Morse High School, Bath, Me.



**Hervey A. Hanscom Scholarship Fund**

This scholarship presented by Hervey A. Hanscom, a graduate of the class of 1890 currently living in Massachusetts, is awarded annually to a deserving student from the town of Lebanon, Maine which was his original residence.

**Frances Howarth Scholarship Fund**

The income from the Frances Howarth Fund is awarded to a promising girl student who is preparing for teaching. Frances Howarth always aspired to a teaching career but was unable to accomplish it because of financial limitations. Her sister gave the money in her name to assist a person with a similar ambition and financial restrictions.

**Charles F. Martin Scholarship Fund**

This scholarship is given in memory of Charles F. Martin, a teacher at Gorham State Teachers College from 1946 to 1958. It is given to a student who is in financial need and reveals those high ideals of character for which Charles Martin was known.

**Gertrude L. Stone Scholarship Fund**

This \$100.00 scholarship is awarded annually to an outstanding student at Gorham State Teachers College in honor of a beloved teacher at the college from 1896 to 1940, a period of forty-four years of dedicated service.

**Walter E. Russell Alumni Scholarship**

Sponsored and made possible by the donations of Gorham Normal School and State Teachers College alumni, the Walter E. Russell scholarship is awarded annually to a deserving student. It honors the second president of the college.

**Barbara Silver Scholarship**

This \$50.00 scholarship is made possible by the class of 1955. It is given in memory of Barbara Silver, a member of that class.

**Genevieve Houston Hasson Scholarship**

Donated by the class of 1950 this \$100.00 annual scholarship is presented to students who merit recognition and financial aid. Genevieve Houston Hasson was an outstanding member of the class of 1950 who passed away in 1960.

**Southern Branch Alumni Association**

To encourage and help worthy students, the Southern Branch of the Gorham Normal School and State Teachers College Alumni Association offers two \$50.00 scholarships each year.

**Portland Branch Alumni Association**

Portland members of the Gorham Normal School and State Teachers College Alumni Association provide a \$100.00 scholarship annually for the student who best measures up to the criteria established for the award.

## Work Opportunities

The college operates an extensive program of student work enabling the student to earn much of his college expenses. Work opportunities include such activities as laboratory assistant, typing and secretarial work for faculty and administration, janitorial and cleaning services, dining hall and kitchen work, library services and other special types of work. The amount a student earns is contingent upon the amount of time spent and the nature of the work performed. Applications for work are made directly to the college.



## Attendance Regulations

Attendance is normally expected at all class sessions. It is assumed that a student's first responsibility in college is to do his work in a satisfactory manner and that class attendance is necessary to achieve this end. Students in good standing are permitted one excused absence per course credit hour. Non-attendance does not constitute official withdrawal from classes. A student who registers for any course is held responsible for its completion unless he officially withdraws by a permit issued by the Registrar's office.

## Grading System

A letter system of reporting final grades is used. *A*, *B*, *C*, *D*, *F*, *Inc.* and *W* represent the levels of achievement. The basis for determining a grade is the relative extent to which the student has achieved the objectives of the course. The grade *A* symbolizes work of superior quality achieved only by the ablest students. *B* rank indicates work of a quality substantially better than the minimum requirements. *C* represents work of a satisfactory but average quality. *D* implies a less than satisfactory quality but is allowable for credit except in transfer. *F* is a failing grade and indicates work of such an unsatisfactory quality that no credit is given. *Inc.* indicates that the student has failed to complete specific course requirements. *W* represents withdrawal from a course.

## Course Credits

To progress satisfactorily through college, a student is expected to carry sixteen credit hours each semester. Since a minimum of 128 credit hours is required for graduation, 32 should be earned each year. Permission must be obtained from the advisor 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 advisor.

An *Inc.* mark must be satisfactorily completed by the end of a period of two weeks immediately following the close of the term in which the grade was given. It is the student's responsibility to remove the *Inc.* rank by consulting his instructor about the missing work, otherwise the *Inc.* will be changed to an *F* by the Registrar.

A deficiency report is prepared by the instructor about students whose academic performance is below average at mid-semester. The Dean of Instruction will notify each student, his parents and his advisor of the professor's warning. The report is designed to help the student analyze his deficiencies by conferring with his instructors and his advisor.

## Grade Point Average

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

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

In order to be eligible for the degree of Bachelor of Science, 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	1.25	1.00
Freshmen, end of second semester	1.50	1.25
Sophomores, end of first semester	1.75	1.50
Sophomores, end of second semester	2.00	1.75
Juniors and Seniors, end of each semester	2.00	1.75



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.

### **The Advisory Program**

#### **Orientation**

To make the adjustment to college life a pleasant experience for freshmen, a four-day orientation program is conducted at the beginning of the academic year. Tests are given to determine the proper class placement of all students, and a series of social activities, discussion groups and tours is conducted by a group of faculty and upper-class student advisors. At this time new friends are made and the newcomer learns much about the college. The four-day program gives the new student an opportunity to meet the entire faculty, to learn about the college offerings and to register for classes.

Every student is assigned to a faculty advisor upon his registration at the college; the faculty advisor for the first two years of college work is arbitrarily established. The advisor is available for scholastic or personal consultations at his own or at the student's request. The informality of the college, however, is such that all students are free to discuss their problems with any faculty member. The Deans of Men and Women are also available for additional counseling.

Upon the completion of his first two years of college and his admission to the professional program, each student is reassigned to an advisor from the faculty of the department in which he is concentrating his work. The faculty advisor then becomes primarily an academic advisor.



## **Student Health Service**

To provide for adequate student health services, the college maintains an infirmary with a full-time registered nurse who is available for consultation, first aid, and temporary emergency care. Two local physicians are available for calls and immunization clinics are conducted to safeguard against communicable diseases.

Health and accident insurance, which is required of 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 also a part of the health program.

## **Placement**

The responsibility of Gorham State Teachers College for assisting its graduates in securing positions is recognized and accepted through its placement office. The aim of the placement office is to help each graduate secure the position for which he is best qualified by training, experience, and personality; and to assist school officials in finding qualified teachers who will meet the needs of their systems. The Director of Placement keeps complete files of candidates showing their scholastic record, qualifications for teaching, and personal characteristics; informs students concerning location of positions, grade levels, and salaries; arranges personal interviews between school officials and candidates for positions; plans visitations to the schools for interested applicants; and gives guidance to prospective teachers in relation to preparing credentials, to participating in placement interviews, and to evaluating the desirability of various teaching situations.

## **Alumni Association**

The Alumni of Gorham State Teachers College, numbering over 6,000, have always been a vital factor in the development of the college. An active Alumni Association convenes for its annual meeting and banquet on campus during commencement week. Among its many activities are the publication of a directory and a newsletter. Various branches of the Alumni encourage promising young men and women to become teachers by awarding annual scholarships. The Alumni perform outstanding service through encouraging young people of character and ability to enter the teaching profession and by giving the college loyal support in its efforts to improve continually its service and facilities.

## **Organized Student Activities**

Gorham has many varied student organizations and activities which make it possible for every student to find a group that is of interest to him. Participation in these extra-class activities is of special importance in the development of the prospective teacher.

### **A Cappella Choir**

A select vocal group that specializes in works of all periods intended for small vocal ensembles.

### **Amicitia Club**

A group of forty girls selected from all four classes whose major purpose is to promote friendship among the women students on campus.

### **Art Club**

This club provides for its members an outlet and an opportunity for creating art objects in various media. Open to all students.



### **Band**

Composed of students from all departments of the college who desire to develop their musical talents and skills by participation in a wind band. The major purpose of the band is to present a number of public concerts each year. In addition, the band provides music at certain athletic events and other college functions.

### **Brass Ensemble**

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.

### **Chess Club**

Composed of chess enthusiasts who need the mental stimulation of friendly competition. The club meets regularly and invites

all students who play the game of chess and those who would like to learn it.

### **The Gorham Choral**

Men's and Women's Glee Clubs join to perform works of greater scope. Several performances are given on campus through the year.

### **Gorham College-Community Orchestra**

An unusual opportunity for day and evening college students to develop their musical talents and skills by participating in a Little Symphony orchestra. The group meets one evening each week for a two-hour rehearsal.

### **Hillcrest**

The annual yearbook of the college prepared by elected representatives of the junior class and presented to the senior class prior to graduation.

### **Industrial Arts Council**

Consists of two members from each class and faculty members. In addition to clearing up departmental problems in the industrial arts program, it seeks to develop closer understanding and relationship on campus between industrial arts and academic departments.

### **Industrial Arts Professional Organization**

Open to all industrial arts students and faculty, it brings to the college community professional programs, offers an opportunity for discussion of problems, and promotes professional development.



### **Intercollegiate Athletics**

Gorham State Teachers College is a member of the New England Conference of Teachers Colleges and competes in intercollegiate baseball, basketball, soccer, and tennis. Scholastic proficiency is a requisite for squad membership.



### **Intramural Athletics**

The intramural program is conducted by the Physical Education Department with assistance from the fraternities and the Varsity "G" Club. Competitive intramural sports include touch football, basketball, volleyball, tennis, and soccer.

### **Men's Fraternities**

Each male student maintaining a C average or better is eligible for selection to membership in one of three fraternities representing social, professional, and academic interests: ALPHA LAMBDA BETA, KAPPA DELTA PHI, and PHI SIGMA PI.

### **Men's Glee Club**

A select group chosen from all interested male students on voice qualification and interest in music. Television programs and several public appearances are made.

### **Men's Residence Hall Government**

The governing body of the men's residence hall composed of eight members of the House Committee, the president of the residence hall, a secretary, and two representatives from each floor.

### **Modern Dance Club**

This club is open to a limited number of students who seek training in the technique of modern dance, an opportunity for work in choreography, and experience in program planning. Beginners are invited to join the Dance Workshop which prepares students for participation in the Modern Dance Club.

### **Music Educator's National Conference**

The primary purpose of this organization is to promote interest in music education at the college and in the community. The presentation of operas and operettas highlights its many contributions.

### **Newman Club**

A national organization for all Catholic students in non-sectarian colleges. The over-all program includes discussion, workshops, sponsoring of outside speakers, visits to children's homes, and communion breakfasts.

### **North American Travel Association**

Students interested in personal and professional improvement through travel join in fund-raising activities to finance an annual trip to points of interest in the eastern states.

### **The Observer**

The college newspaper is published by students interested in all aspects of journalism. It keeps students informed of campus events and happenings and serves as an outlet for journalistic talents.

### **Outing Club**

All men and women interested in recreational activities are eligible for membership. It provides a well-rounded program including square dances, splash and bowling parties, clam bakes, and trips. The Outing Club sponsors the annual Winter Carnival.

### **Student Christian Association**

A religious organization open to all students. Its purpose is to give spiritual strength and guidance to each of its members and to participate in and sponsor many college activities.

### **Student Council**

The student governing body of the college composed of representatives elected from each class. The Student Council apporitions the income from the student activity fees and provides leadership in all student activities contributing to the general welfare of the college.

### **Student Education Association of Maine**

An association concerned with the upholding of the moral and ethical codes of the teaching profession. Members of S.E.A.M. are also members of the Maine Teachers Association and the National Education Association. All students are eligible for membership.

### **Varsity "G" Club**

An organization made up of men earning letters in varsity sports competition.

### **Women's Athletic Association**

The aim of the association is to encourage all women students to take an active part in sports and allied activities. The WAA promotes all women's athletic activities which include archery, field hockey, softball, badminton, and tennis.

### **Women's Glee Club**

Membership is open to all female students on voice qualifications and interest. Several public performances are given through the school year.

### **Resident Women's Student Government**

Each hall has a House Committee. These committees are coordinated by the Inter Dormitory Council. All groups strive to serve the resident women and to promote good citizenship.



**Curricula** All programs at Gorham State Teachers College are founded on the philosophy that teachers must have a strong liberal education, some scholarly depth in an area of academic interest, and a good background of professional knowledge, skill and experience. In keeping with this philosophy, all students are required to devote time and effort to general education; most curricula prescribe two thirds of a student's study in the liberal arts.

The professional phase of the various curricula requires knowledge of child and adolescent development, curriculum construction, philosophy of education, and general methods of teaching, culminating in actual teaching of classes in a campus laboratory school or in cooperating schools throughout the state.

#### **Kindergarten-Primary**

The Kindergarten-Primary program qualifies graduates to teach in the kindergarten through grade six. Considerable emphasis is placed on child development and the teaching of reading. Actual experience in working with younger children in many types of activities is an integral part of the program.

#### **General Elementary**

The General Elementary curriculum is similar to the program for majors in Kindergarten-Primary education. It varies primarily in emphasis, concentrating on preparing students to teach in the middle and upper grades. Graduates are certified to teach grades one through eight.

## **Junior High**

The Junior High curriculum prepares students to teach either English, mathematics, science, or social studies in grades 7, 8, and 9. One major and one minor subject are required of each graduate. Graduates are qualified to teach in the elementary grades or their major and minor in junior high school.

## **Art**

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

## **Industrial Arts**

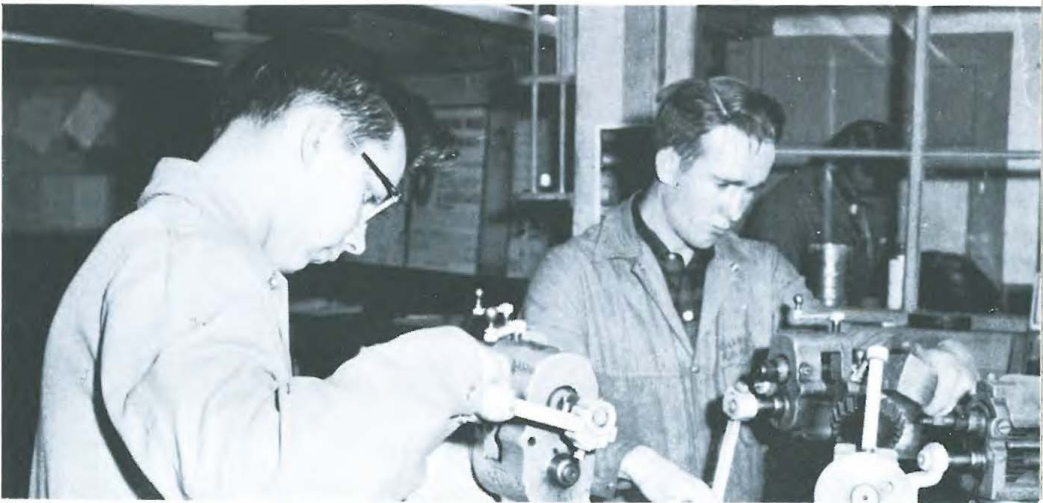
The Industrial Arts curriculum prepares teachers for the teaching of industrial arts in elementary and secondary schools. This is the only college program in the state of Maine in this area. The Industrial Arts Department cooperates with the University of Maine in offering, during summer sessions, courses leading to the Master of Education Degree.

## **Music**

The Music curriculum qualifies graduates to teach or supervise vocal and instrumental music in all grades. It is the only such program in Maine state teachers colleges.

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

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





## Core Curriculum

(Minimum Requirements for All Students and All Curricula)

### I.

#### General Education

	Credit Hours
College Health	2
English	9
English Composition	(6 hours)
American Literature	(3 hours)
History and Appreciation of Art	3
History and Appreciation of Music	3
Mathematics (assigned)	3
Elements of Mathematics	(3 hours)
or	
Mathematical Analysis	(4 hours)
Physical Education	(two years) 2
Psychology	3
Science	6
Biological Science	(3 hours)
Physical Science	(3 hours)
(taken either semester)	
Social Science	9
U.S. History	(3 hours)
History of Civilization	(3 hours)
Principles of Geography	(3 hours)
Sociology	(3 hours)
(Choice of any three)	
Speech	2
Total:	42 credit hours

### II.

#### General Professional Education

(Minimum Requirements for All Students and All Curricula)

	Credit Hours
Philosophy of Education	3
Introduction to Education	2
Child or Adolescent Psychology	2
Student Teaching	12
Curriculum Methods and Materials	6
(various courses)	
Total:	25 credit hours

### III.

#### Additional Required Academic Courses

##### A.

##### For Primary, Elementary, and Junior High Curricula

	Credit Hours
Social Science (To complete all four courses listed under core curriculum plus one other course)	6
Mathematics (Continuation of course assigned under core curriculum)	3
Science (Three hours of Biological Science and three hours of Physical Science)	6

Total: 15 credit hours

##### B.

##### For Primary and Elementary Curricula

	Credit Hours
Fundamentals of Art	2
Fundamentals of Music	2
Children's Literature	2

Total: 6 credit hours

### IV.

#### Specific Professional Education Courses

##### Required In

##### A.

##### Primary Curriculum

	Credit Hours
Student Teaching (in same semester)	12
Measurement and Evaluation and	2
Problems of Primary Education	2
Curriculum Methods and Materials	12

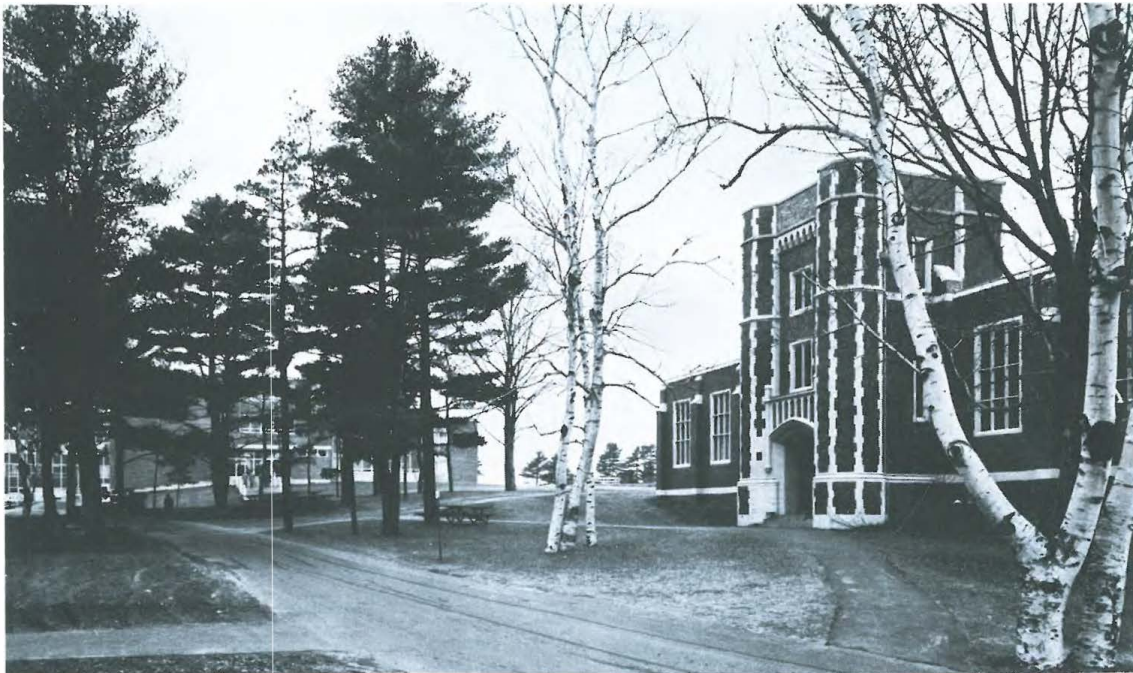
Total: 28 credit hours

B.  
Elementary Curriculum

	Credit Hours
Student Teaching (in same semester)	12
Measurement and Evaluation and	2
Problems of Elementary Education	2
Curriculum Methods and Materials	12
	<hr/>
Total:	28 credit hours

C.  
Junior High School Curriculum

	Credit Hours
Student Teaching (in same semester)	12
Measurement and Evaluation and	2
Problems of Junior High School Education	2
Curriculum Methods and Materials	9
	<hr/>
Total:	25 credit hours



Library Building

Russell Hall

## **PROGRAMS OF STUDIES**

**for**

**General Elementary Education Majors**

**Kindergarten-Primary Education Majors**

**Junior High Education Majors**

**Art Education Majors**

**Industrial Arts Education Majors**

**Music Education Majors**

All programs of study included on the following pages are subject to modification. A constant study of all programs by a faculty curriculum committee to insure the best possible preparation of Gorham graduates is an integral part of the college organization.



**All General Elementary, Kindergarten-Primary,  
and Junior High Majors**

Credit  
Hours

**FRESHMAN YEAR**

Eng	100-101	English Composition	6
*Math	100-101	Elements of Math I and II	6
Sci	100-101	Biological Science	6
SS	101	History of Civilization	3
FA	100-101	Art and Music History and Appreciation	6
Ed	100	The American School	2
PE	100-101	Physical Education	1
PE	102	Health and Hygiene	2

**SOPHOMORE YEAR**

Eng	201	American Literature	3
Eng	400	Speech	2
Sci	200-201	Physical Science	6
SS	200 or 201	United States History	3
SS	202	Principles of Geography	3
xxFA	200-201	Fundamentals of Art and Music	4
PE	200-201	Physical Education	1
Psy	200	General Psychology	3
Electives			7 or 11

**JUNIOR YEAR**

Ed	300-312	Curriculum Methods and Materials	12†
Psy	300/301	Human Growth and Development	3
SS	300 or 203	Economics or Sociology	3
xxEng	350	Children's Literature	2
Electives			12 or 15

**SENIOR YEAR**

Ed	401	Philosophy of Education	3
Ed	402	Student Teaching	12
Ed	403, 404, or 405	Seminar in Problems of Teaching	2
Ed	311	Measurement and Evaluation	2
Electives			13

\* Placement determined by high school program and mathematical aptitude test.

† Junior High Majors — 9 credit hours.

xxNot required of Junior High Majors.

			Credit Hours	Art Majors
FRESHMAN YEAR				
SS	101	History of Civilization	3	
Eng	100-101	English Composition	6	
Sci	100	Biological Science	3	
PE	102	College Health	2	
Math	100	Elements of Math I	3	
Ed	100	The American School	2	
PE	100-101	Physical Education	1	
FA	102-103	Art Appreciation and History	6	
Art	100-101	Foundations of Art I and II	6	
SOPHOMORE YEAR				
Eng	201	American Literature	3	
SS Elective		Sociology/American History/Geography	6	
Psy	200	General Psychology	3	
Eng	400	Speech	2	
PE	200-201	Physical Education	1	
Sci	200	Physical Science	3	
Art	200-201	Foundations of Art III and IV	6	
Art	202	Arts and Crafts I	3	
Art	203	Drawing Techniques I	3	
Elective			3	
JUNIOR YEAR				
Psy	300/301	Child or Adolescent Psychology	2	
FA	101	Music Appreciation and History	3	
Art	300	Painting Techniques I	3	
Art	301	Graphic Arts	3	
Art	302	Arts and Crafts II	3	
Art	303	Drawing Techniques II	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	
Electives			6	
SENIOR YEAR				
Ed	402	Student Teaching	12	
Ed	401	Philosophy of Education	3	
Art	400	Painting Techniques II	3	
Art	401	Aesthetics	3	
Art	402	Advanced Problem in Art	3	
Art Ed	400	Problems of Teaching and Supervision	2	
Electives			6	

**Industrial Arts**Credit  
Hours**Major****FRESHMAN YEAR**

Eng	100-101	English Composition	6
Math	100-101	Elements of Math I and II	6
PE	100-101	Physical Education	1
PE	102	College Health	2
Ed	100	The American School	2
IA	101	Metal Technology	5
IA	102	Electricity	5
FA	100	Art Appreciation and History	3
Sci	101	Biological Science	3

**SOPHOMORE YEAR**

*SS		Social Science Elective	3
Psy	200	General Psychology	3
Sci	200	Physical Science	3
IA	200	Technical Drawing	2
IA	201	Wood Technology	5
PE	200-201	Physical Education	1
*SS		Social Science Elective	3
Eng	400	Speech	2
IA	202	Machine and Architectural Drawing	2
IA	203	Power and Transportation I	5
Eng	201	American Literature	3

**JUNIOR YEAR**

Ed	311	Measurement and Evaluation	2
SS	360	Modern Industry	3
IA	300	General Shop Organization	3
IA	301	Electronics	5
IA	302	Graphic Arts I	3
IA	303	Metal Fabrication	5
IA	304	Power and Transportation II	5
IA Ed	305	Methods and Materials of Instruction	3
Psy	301	Adolescent Psychology	2
*SS		Social Science Elective	3
Elective		U.S. History	3

**SENIOR YEAR**

Ed	402	Student Teaching	12
Ed	401	Philosophy of Education	3
IA Ed	403	Analysis and Course Development	3
IA Ed	404	Problems of Teaching	1
IA	405	Wood Industries	4
IA	406	Graphic Arts II	2
IA	407	Arts and Crafts	2
IA	400	Industrial Arts Design	2
FA	101	Music Appreciation and History	3
Electives		2 from IA 406, IA 407, IA 400	4
Electives			3
*SS Electives		History of Civilization	3
		Principles of Geography	3
		Sociology	3

FRESHMAN YEAR

Eng	100-101	English Composition	6
Ed	100	The American School	2
Math	100	Elements of Math I	3
Mus	100-101	History of Music	6
Mus	102-103	Theory	6
Mus	104-105	Applied Music	8
Mus	106-107	Vocal Ensemble	1
Mus	108-109	Recital Class	1
PE	100-101	Physical Education	1

SOPHOMORE YEAR

Psy	200	Psychology	3
FA	100	Art Appreciation	3
Mus	200-201	History of Music	6
Mus	202-203	Music Theory	6
Mus Ed	200	Woodwind Class	2
Mus Ed	201	Brass Class	2
Mus	206-207	Applied Music	8
Mus	208-209	Vocal Ensemble	1
Mus	210-211	Recital Class	1
PE	200-201	Physical Education	1
Psy	300	Child Psychology	2

JUNIOR YEAR

Mus Ed	300-301	Music Education Methods	6
Mus	302	Instrumental Conducting	2
Mus Ed	302-303	String Class	4
Mus	303	Vocal Conducting	2
Mus	306-307	Applied Music	8
Mus	308-309	Vocal Ensemble	1
Mus	310-311	Recital Class	1
Sci	200	Physical Science	3
Sci	100	Biology	3
		Social Science Elective	3
PE	102	College Health	2

SENIOR YEAR

Ed	402	Student Teaching	12
Eng	400	Speech	2
Mus	400	Instrumentation	3
Mus Ed	400	Music Administration and Supervision	4
Ed	401	Philosophy of Education	3
Mus	403	Vocal Ensemble	½
Mus	404	Recital Class	½
		Social Science Elective	3
Eng	201	American Literature	3
		Social Science Elective	3



## Electives

ART

## EDUCATION

## ENGLISH

## INDUSTRIAL ARTS

## MATHEMATICS

## MUSIC

## PHYSICAL EDUCATION

## SCIENCE

Sci	350	Botany (Vascular)	4
Sci	351	Botany (Non-Vascular)	4
Sci	352	Zoology (Invertebrate)	4
Sci	353	Zoology (Vertebrate)	4
Sci	354	Photography	2
Sci	355	Natural Science	2
Sci	356	Physical Geology	3
Sci	357	Historical Geology	3
Sci	358	Ecology	3
Sci	359	Conservation of Natural Resources	3
Sci Ed	360	Methods and Problems of Teaching Science	3
Sci	361	Physics I	4
Sci	362	Physics II	4
Sci	363	Astronomy	3
Sci	364	Chemistry I	4
Sci	365	Chemistry II	4
Sci	366	History of Science and Technology	3
Sci	367	Physiology and Anatomy	3
Sci	450	Genetics	3
Sci	451	Evolution	3

## SOCIAL SCIENCE

SS	300	Economics	3
SS	301	Maine History	2
SS	350	World Geography	3
SS	351	Geography of Asia	3
SS	352	Geography of Latin America	3
SS	353	Geography of North America	3
SS	354	Diplomatic History of the United States	3
SS	355	Canadian - American Relations	3
SS	356	History of Russia	3
SS	357	History of the West	3
SS	358	Bible	3
SS	359	Europe since 1919	3
SS	360	Modern Industry	3
SS Ed	361	Teaching Social Studies in the Junior High School	2
SS	362	Geography of Europe	3
SS	363	American Civilization in 20th Century	3
SS	364	Civil War and Reconstruction	3
SS	365	Social and Cultural History of U.S. to 1865	3
SS	400	American Government	3
SS	450	Archeology	3
SS	451	Marriage	3
SS	452	Criminology	3
SS	453	Political Thought	3
SS	454	International Relations	3
SS	455	Political Geography	3
SS	456	Economic Geography	3





## Course Descriptions

### Description of course numbering system:

- 100-199 — Freshman year courses
- 200-299 — Sophomore year courses
- 300-399 — Junior year courses
- 400-499 — Senior year courses

### Art 100-101, 200-201 Foundations of Art

The grammar and vocabulary of visual expression taught through a series of problems providing experience for the development of a 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*

### FA 100 Art Appreciation and History

A study of architecture, sculpture, and painting from prehistoric times to the present.

*Three credit hours*

### FA 102-103 Art Appreciation and History

A study in depth of the arts of architecture, sculpture, and painting from prehistoric times through the Renaissance.

*Six credit hours*

### Art 202 Arts and Crafts I

An introduction to the handcrafts using simple tools and materials which may be found in the average classroom.

*Three credit hours*

### Art 203 Drawing Techniques I

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

*Three credit hours*

### Art 300 Painting Techniques I

Introduction to the problems of painting with emphasis on the role materials and techniques play in the creation of visual form.

*Three credit hours*

### Art 301 The Graphic Arts

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

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

*Three credit hours.*

### Art 303 Drawing Techniques II

Advanced study in drawing with special emphasis on the use of various media in pictorial art involving landscape, still life, and figure drawing. Prerequisite: Art 203.

*Three credit hours*

### Art 304 Three Dimensional Art

Experimentations of form in space involving sculpture, stabiles, mobiles, etc.

*Two credit hours*

### Art 305 Contemporary Art

A course designed to acquaint the student with the ideas and principles which underly the arts of today.

*Three credit hours*

### Art Ed 300 Elementary Art Education

A study of growth and development in the creative abilities of children and 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

A study of classroom experiences in art on the secondary level, involving units of teaching which may enrich the general curriculum of the school.

*Two credit hours*

### Art 400 Painting Techniques II

Advanced problems and instruction based on original student work with the aim of deepening the student's understanding of the artistic production of others, and developing his own expressive competence to a more professional degree. Prerequisite: Painting Techniques I.

*Three credit hours*

### Art 401 Aesthetics

An investigation into theories of art and beauty in the writings of philosophers, painters, writers, and others which form the basis for our understanding of the Fine Arts. Reading and discussion of writers from ancient to modern times.

*Three credit hours*

**Art 402 Advanced Problem in Art**

An opportunity for the student to do advanced independent study in some field of art in which he has particular interest. The completion of a unit or series of related projects in art or art education is required.

*Three credit hours*

**Art Ed 400 Problems of Teaching and Supervision**

A course designed primarily for the student who is participating in student teaching in art with the idea of discussing and thereby solving problems which might have arisen at the time of teaching. An attempt is also made to form in each student's mind a basic philosophy of art education.

*Two credit hours*

**Education and Psychology****Ed 100 The American School**

Basic freshman course in general education including history of education, organization of American school system, competencies for teaching, professional organizations, code of ethics for teachers, various types of economic security for teachers, certification, and newer concepts of education.

*Two credit hours*

**Ed 300-312 Curriculum Materials and Methods**

This is a series of coordinated courses designed to prepare teachers who understand the philosophy, the functions, and the organization of modern primary, elementary, and junior high schools. It is intended that these teachers shall also be capable of selecting and guiding learning experiences at the level for which they specialize. Students are divided into three groups according to specialization:

**Ed 300 Primary Curriculum and Materials**

A core of professional education which emphasizes integration at the kindergarten-primary level, with special attention to language arts and social studies. Such topics are included as programming, types of curricula, evaluating, development of units, lesson planning, grouping, sociometric procedures, reporting to parents, analysis of textbooks, and audio-visual techniques. Supplementary guest speakers will be an integral part of the course.

*Five credit hours*

**Ed 303 Primary Reading**

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, and remedial problems. Introduction to such current reading equipment as tachistoscope, accelerator, and reading lab-

oratories, combined with analysis of recent textbooks in the Curriculum Laboratory.

*Three credit hours*

**Ed 305 Primary Arithmetic**

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

*Three credit hours*

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

Inductive science approach for the kindergarten-primary level; appropriate materials, experiments, and themes for this level; use of a teaching team to relate topics from health and physical education.

*Two credit hours*

**Ed 302 Elementary Curriculum and Materials**

A core of professional education with emphasis on the integration of language arts and social studies at the intermediate grade level. Includes programming, types of curricula, evaluating, development of units, lesson planning, grouping, sociometric procedures, reporting to parents, analysis of textbooks, and audio-visual techniques. Use of supplementary guest speakers.

*Five credit hours*

**Ed 304 Elementary Reading**

Approved methods in the teaching of reading with special emphasis on word analysis and the development of reading study skills. Comparisons of the various reading procedures currently being used, including the developmental program, independent reading, grouping, phonetics, and remedial reading problems. Introduction to such current reading equipment as tachistoscope, accelerator, and reading laboratories, combined with analysis of recent intermediate grade textbooks in the Curriculum Laboratory.

*Three credit hours*

**Ed 310 Science and Health for the Elementary Teacher**

Problems and methods of teaching science and health comprise the course content. Current practices and teaching materials are emphasized and evaluated.

*Two credit hours*

**Ed 312 Elementary Arithmetic**

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

*Two credit hours*

**Ed 304 Advanced Reading**

Approved methods in the teaching of reading. Comparison of the various reading procedures being used, with emphasis on continuity. Word analysis and reading study skills as they apply to each subject matter area of the junior high school.

*Two credit hours*

**Ed 309 Junior High Organization and Materials**

Philosophy, purpose, and organization of the junior high school. Approved practices of planning and teaching, differentiated instruction, unique function of this type of school. Overview of the self-contained classroom as found in the upper grades.

*Three credit hours*

Methods course in Major

*Two or three credit hours*

Methods course in Minor

*Two or three credit hours*

**Ed 311 Measurement and Evaluation**

Construction, selection, and use of educational achievement tests including diagnostic and survey instruments. Skill in writing improved essay and objective types is developed. Validity and reliability of typical standardized tests is investigated. Elements of statistics, tabulation of data, measures of central tendency, variability, correlation, and uses of each.

*Two credit hours*

**Ed 401 Philosophy of Education**

A course designed to examine the major historic and current viewpoints that concern the nature, aims, and practices of education. The relationship of philosophy to personal and professional growth is a focal theme of the course.

*Three credit hours*

**Ed 402 Student Teaching**

Full-time student teaching is done under careful supervision during one semester of the senior year. The semester is divided into two terms so that each student has the opportunity of teaching in two situations. For this purpose the Campus School and cooperating schools are utilized. Industrial Arts majors are required to reside in the town to which they are assigned. Student teaching is provided in the following specializations: Kindergarten-Primary, General Elementary, Junior High School, Music, Art, and Industrial Arts.

*Twelve credit hours*

**Ed 403 Seminar in Primary Education**

Consideration of significant problems of primary education, such as: school law as it relates to the primary teacher, grouping and individual differences, basic organization of student teaching, the primary teacher and the community, the school, and the state. Faculty members from special areas and guests will supplement the program.

*Two credit hours*

**Ed 404 Seminar in Elementary Education**

Consideration of significant problems of elementary education including school law,

professional and ethical procedures, organization of student teaching, and teacher relationships with school, community and state.

*Two credit hours*

**Ed 405 Seminar in Junior High School Education**

Consideration of significant problems of junior high school education including school law, professional and ethical procedures, organization of student teaching, and teacher relationships with school, community and state.

*Two credit hours*

**Ed 450 Dynamics of Adjustment**

Designed to provide greater understanding of own behavior and sensitivity to that of others. Theories of personality discussed and evaluated. Emphasis on normal individual and adjustment to change in terms of ego processes. Prerequisite: Two courses in psychology.

*Three credit hours*

**Ed 451 Educational Television**

Explores the use and techniques involved in this communication media. Direct observation of E.T.V. facilities and programming structure.

*Two credit hours*

**Ed 452 Remedial Reading**

This course provides both class discussion and clinic situations. Individual problems and methods by which the teacher copes with individual difficulties are explored; testing and diagnostic work are studied and carried out with a group of children. Prerequisite: Reading with a grade of A or B.

*Three credit hours*

**Ed 453 Public Relations and Communications**

Designed to promote total understanding of communications and its relation to the teaching profession. Particularly helpful to those anticipating administrative positions.

*Two credit hours*

**Psy 200 General Psychology**

Introductory course emphasizing psychology as a science, development of psychological vocabulary, and application of basic principles to everyday living. Major topics include: motivation, emotions, intelligence, effective learning and thinking.

*Three credit hours*

**Psy 300 Child Psychology**

Considers all aspects of child growth and their relationship to the program of the elementary school. Consideration given to the role of parents and society in proper child development. Prerequisite: Psy 200.

*Three credit hours*

**Psy 301 Adolescent Psychology**

Study of the physical, mental, social and emotional development of the adolescent—the changes of this period and influence on behavior. Selected case studies and projects help make application of basic principles to problems of adjustment to school, home, and community. Prerequisite: Psy 200.

*Three credit hours*



## English

### Eng 100-101 English Composition

Basic freshman course combining principles of written composition and critical study of types of literature. Practice in writing with emphasis on mechanics and style is emphasized the first semester and is followed in the second semester by study of literature to refine reading habits and tastes.

*Three credit hours*

### Eng 200 English Literature

Survey course in English literature from its beginnings to 18th Century. Representative selections from the English literary heritage are viewed in relation to the times which produced them.

*Three credit hours*

### Eng 201 American Literature

Survey course in American literature from Colonial Period to end of 19th Century. Includes development of American literature, historical background and intellectual trends, contribution of major writers.

*Three credit hours*

### Eng 350 Children's Literature

Designed to acquaint students with varied types of literature for children in lower and middle grades. Emphasizes extensive reading, but also includes selection, critical evaluation, and use of materials.

*Two credit hours*

### Eng 351 Improvement of Composition

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

*Two credit hours*

### Eng 352 Shakespeare

A study of the history plays of Shakespeare such as *Richard II*, *Henry IV*, *Henry V*, *Henry VI*, and *Richard III*. In addition at least one comedy will be considered. Some study of the Elizabethan Theater and of the age in which Shakespeare wrote included.

*Three credit hours*

### Eng 353 Survey of English Literature

An extension of the basic course in English literature, covering the representative writers of the Romantic and Victorian periods in England. Prerequisite: Eng 200.

*Three credit hours*

### Eng Ed 354 Teaching English in the Junior High School

A methods course for upperclassmen. Review of basic fundamentals of English grammar and writing skills. Creative approach to the teaching of both grammar and literature at the junior high level.

*Two credit hours*

### Eng 400 Speech

Covers basic principles of content organization and techniques of delivery employed in expository speaking. Each student prepares and delivers four speeches, receiving

detailed analysis and criticism of both the written plan and the delivered speech.

*Two credit hours*

### Eng 450 Enjoyment of Poetry

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

*Two credit hours*

### Eng 451 The Short Story

A study of the short story as a literary form. The techniques and artistic effects of the outstanding works of many American, British, and continental storytellers are evaluated through critical reading and discussion.

*Two credit hours*

### Eng 452 Dramatic Production

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

*Three credit hours*

### Eng 453 American Drama

A beginning survey of the history of American drama from the Colonial era to the present. The reading of a selected list of plays, followed by analysis and criticism. Some biographical study of dramatists in this country to supplement a knowledge of their works. Certain techniques of the theater in its development are considered.

*Two credit hours*

### Eng 454 Contemporary Literature

Presents significant writers, largely English and American, of modern times. Emphasizes wide and discriminating reading.

*Three credit hours*

### Eng 455 Novel

A course in the reading and critical evaluation of the work of representative novelists from Jane Austen to William Faulkner. Focus in first quarter is on English and continental novels of 19th Century; in second quarter, on modern novels.

*Two credit hours*

### Eng 456 Creative Writing

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. Prerequisite: Consent of instructor.

*Two credit hours*

### Eng 457 Modern Continental Drama

Trends in the development of plays from the late Nineteenth Century to the present are considered. The course takes up the meaning of such terms as realism, naturalism, symbolism, and expressionism, as they apply to the evolution of drama in this period. Selections from the works of Ibsen, Strindberg, Hauptmann, Chekhov, Gorky, Rostand, Pirandello, and Toller are read, studied, and discussed.

*Three credit hours*



## Health and Physical Education

### PE 100-101 Physical Education (Women)

A service program emphasizing fundamental skills in sports, body mechanics and rhythm. Includes instruction in tennis, archery, trampoline, tumbling, volleyball, folk and ballroom dance, and fundamentals of rhythm.

*One-half credit hour*

### PE 101-101 Physical Education (Men)

The development of physical fitness, skills, and leadership through conditioning exercises, touch football, soccer, volleyball, basketball, tumbling softball, and a variety of games.

*One-half credit hour*

### PE 102 Health and Hygiene

The course aims to help students gain understandings, insights, and values which will help them make choices concerning their own health in face of conflicting mores.

*Two credit hours*

### PE 200-201 Physical Education (Women)

Major objective is the building of organic fitness. Fundamental skills, poise, relaxation, and leisure-time activities.

*One-half credit hour*

### PE 200-201 Physical Education (Men)

Aims to continue to develop physical fitness, skills, and leadership through conditioning, exercise, speedball, wrestling, square dancing, apparatus, track, tennis, golf, and various games, contests, and relays.

*One-half credit hour*

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

A professional preparation course for students seeking certification to teach physical

education. Covers growth patterns of junior high school children, program planning, and problems in physical education at the junior high level. Also presents an opportunity to teach games, contests, and relays to students from the Gorham Junior High School.

*Three credit hours*

### PE 351 Safety and First Aid

Basic principles of first aid and procedures to follow in case of accidents. Safety education to gain knowledge, skills, and attitudes that make for safety.

*Three credit hours*

### PE 352 Personal and Community Health

Includes the concern with health of people as a group, governmental and social activities responsible for controlling the environment and promoting health. The nature of communicable diseases, health needs of mothers and children, control of food, water, waste, ventilation, heating and lighting—development of special programs for health maintenance in the schools are emphasized.

*Three credit hours*

### PE 353 Coaching

The purpose of this course is to prepare the coach for his opportunity as an educator, and to analyze and understand the fundamentals of individual and team play in four major team sports: football, basketball, baseball, and soccer.

*Three credit hours*

### PE 354 Program Planning in Physical Education

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

*Three credit hours*

### PE 450 History and Philosophy of Physical Education

This course describes the position physical education has occupied throughout the years in civilized society. The present status of physical education, the theories and methods of the leaders, the heritages from early movements, as well as the relationship which physical education has borne to general education, receive attention.

*Three credit hours*

### PE 451 Organization and Administration of Physical Education

A professional preparation course for students seeking certification to teach physical education. Course covers the organization and administration of the required physical education program, intramurals, and interscholastic program.

*Three credit hours*

### PE 452 Outdoor Education

Emphasizes the subject of school camping throughout the country. Includes major types of activity such as campcraft, nature study, woods safety, sports, knowledge of community organizations, and school camping.

*Three credit hours*



## Industrial Arts

### IA 101 Metal Technology

Overview of metal technology included in designing, planning, constructing, and evaluating of projects in the areas of sheet metals, art and bench work, forge, foundry, and lathe work. Safety practices, a study of metals and related information. Use and care of handtools, machines and equipment.

*Classroom and lab. Five credit hours*

### IA 102 Electricity

Fundamentals of electrical theory, AC and DC generation and distribution. Applications in lighting, signal devices, heating, power and control devices. Test equipment and procedures.

*Classroom and lab. Five credit hours*

### IA 200 Technical Drawing

Techniques of instrumental drawing, including lettering, theory of shape and size description, orthographic and pictorial representation, geometric development, and production illustration. Experiences in inking, tracing and printmaking.

*Two credit hours*

### IA 201 Wood Technology

General woodworking based on the selection, use, and care of handtools and machines; wood identification and selection; construction principles; safety practices; and techniques of wood finishing. Designing, planning, and construction of small projects.

*Classroom and lab. Five credit hours*

### IA 202 Machine and Architectural Drawing

Application of the elements of drawing machine parts, threads, fasteners, gears, and cams to detail and assembly drawings. Architectural designing, planning, and execution of residential plans. Standard details of construction, print reading, and specifications. Prerequisite: IA 200.

*Two credit hours*

### IA 203 Power and Transportation I

Basic principles of internal combustion engines as related to the transportation field. Manufacturing procedures and materials used in the automotive industry. Laboratory experiments and practices developed around maintenance and minor repair of automobiles, small engines, and outboard motors.

*Classroom and lab. Five credit hours*

### IA 300 General Shop Organization

Basic principles of organization and management of an industrial arts program. Planning the school shop, selection and arrangement of equipment, and organization of content. Application of these principles included. Prerequisites: Industrial Arts courses through IA 202.

*Classroom and lab. Three credit hours*

### IA 301 Electronics

Fundamentals of electronics. Inductance, capacitance, and resistance applications in electronic equipment. Trouble shooting procedures. Prerequisite: IA 102.

*Classroom and lab. Five credit hours*

### IA 302 Graphic Arts I

Introduction to graphic arts procedures in relief and offset printing. Design and production of graphic materials which involve elementary hand composition, imposition, and lock-up, platen presswork, paper cutting and padding, block carving, rubber stamp making and direct image offset reproduction. Elements of design, papermaking, inks, and related technical information.

*Classroom and lab. Three credit hours*

### IA 303 Metal Fabrication

Intensive study of sheet metal fabrication, spinning, welding, and machine shop practice. Individual and group projects or activities and related technical studies. Instructional devices and shop maintenance practices. Prerequisite: IA 101.

*Classroom and lab. Five credit hours*

### IA 304 Power and Transportation II

Power—its sources, generation, transmission and utilization. Design and construction of different models to illustrate principles involved. Intensive experience in the maintenance and repair of engines, fuel and electrical systems, chassis, power trains and brakes. Prerequisite: IA 203.

*Classroom and lab. Five credit hours*



**IA Ed 305 Methods and Materials of Instruction**

Classroom and laboratory experiences involving the nature and direction of learning. Planning for effective teaching, preparation, and use of audio-visual materials, devices, and equipment. Planning and preparation of teaching units and lessons. Demonstration teaching and critiques. Orientation to student teaching. *Three credit hours*

**IA 350 Arts and Crafts**

Information and experiences 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**

The role of industrial arts in the elementary school. Activities and projects correlating with unit teaching and enriching the general curriculum of the school. Study of correct material and tool usage with special emphasis upon safe practices. Non-majors only. *Three credit hours*

**IA Ed 403 Analysis and Course Development**

Curriculum construction in industrial arts based on an analysis of student interests and needs, curricular objectives and instructional content. Techniques of course development involving resource units, experience units, instructional units, and trade and job analysis are discussed and evaluated. Development of teaching units discussed and specimen courses of study required. Prerequisite: Ed 402. *Three credit hours*

**IA 400 Industrial Arts Design**

The elements of design and their relationship to industrial and consumer products. Fundamental techniques in the use of the various design media are stressed. Applications are made through individual and group problems typical of those encountered in the industrial arts laboratory. Prerequisite: IA 200. *Two credit hours*

**IA Ed 404 Problems of Teaching**

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

**IA 405 Wood Industries**

Intensive work in one or more phases of woodworking, including recent developments. Patternmaking, special machine operations, functional project design, building construction and techniques of modern finishing methods. Group production problems, individual research assignments, shop maintenance, and related technical problems. Prerequisite: IA 201.

*Classroom and lab. Four credit hours*

**IA 406 Graphic Arts II**

Line and display composition and reproduction, printing, engraving, bookbinding, offset plate making, and reproduction. Individual and production type projects or jobs. Typographic design and layout emphasized. Prerequisite: IA 302. *Two credit hours*

**IA 407 Arts and Crafts**

Activities and materials used in recreational and adult craft programs. Experiences in designing and construction of projects in several media. Planning, organizing, and operating a crafts program. *Two credit hours*



**Mathematics**

**Math 100 Elements of Mathematics I**

A basic course emphasizing the structure of the number systems of whole numbers and rational numbers; fundamental notions of set theory; basic concepts of various numeration systems, and the operations of addition, subtraction, multiplication, and division. *Three credit hours*

**Math 101 Elements of Mathematics II**

Continuance of the two-course sequence on the structure of the real number system and its subsystems, introducing negative rationals, development of rules of operation, use of simple equations and inequalities, topics from elementary number theory to emphasize discovery and proof. *Three credit hours*

**Math 110 Basic Concepts of Algebra**

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 of real numbers, field 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*

**Math 111 Informal Geometry**

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*

**Math 150 Mathematical Analysis I**

First course in a two-semester sequence planned to prepare entering freshmen for calculus. The structure of the set of real numbers is developed; conditions, relations, and elementary functions given a modern interpretation.

*Four credit hours*

**Math 151 Mathematical Analysis II**

Second course in a pre-calculus sequence. A structured approach to essential elements of exponential and logarithmic functions, trigonometry, and coordinate geometry. Prerequisite: Math 150.

*Four credit hours*

**Math 250 Calculus I**

Essentially a course in the differentiation and integration of algebraic functions. Includes basic applications of maximum and minimum values, curve tracing, rate of change, and integration as a process of summation. Continues use of newer concepts relating to such items as the real number system and functions. Prerequisite: Math 151.

*Four credit hours*

**Math 251 Calculus II**

Differentiation and integration of transcendental functions, applications to parametric equations, polar equations, and roots, radius and circle of curvature, theorem of mean value, integration of standard elementary forms. Prerequisite: Math 250.

*Four credit hours.*

**Math 273 Modern Mathematics**

A modern approach to selected topics in mathematics containing more depth in the areas of symbolic logic, sets, functions and relations, introduction to modern algebra and geometry.

*Two credit hours*

**Math 350 College Geometry**

An introduction to modern geometry. Topics stressed include: geometry before Euclid, Euclid's plane geometry, extensions of Euclidean geometry, selected theorems and an introduction to other geometries.

*Three credit hours*

**Math 361 Probability and Statistics**

A study of probability with statistical applications. Topics included are: elementary probability theory for finite sample spaces, introduction to random variables, properties of the binomial probability distributions, central limit theorem, inference.

*Three credit hours*

**Math 370 Abstract Algebra**

A course developed about the following topics: notions of set theory, theorems on groups, rings, fields, and vector spaces, structure of homomorphisms, linear equations, matrices and determinants. Geometric models are employed to increase the student's understanding of this material.

*Three credit hours.*

**Math 471 Foundations of Mathematics**

A strongly historical treatment of fundamental concepts in geometric and algebraic systems. Euclidean and non-Euclidean geometry, Hilbert's "Grundlagen," algebraic structures, and philosophy of logic are included.

*Three credit hours*

**Math Ed 312 Elementary Arithmetic**

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

*Two credit hours*

**Math Ed 306 Junior High School Mathematics**

Teaching mathematics with new approach at junior high school level. Programs for teaching both slow and advanced pupil. Study of current textbooks and experimental material in modern mathematics. Content as needed to provide orientation in structure, properties, sets, number systems, axiomatic development in algebra, introduction to geometry, and other basic ideas of modern mathematics.

*Three credit hours*







## Music

### FA 101 Music Appreciation and History

Guiding the uninitiated listener into the complex land of music. "Listening" to music rather than "hearing" it. Listening intelligently to great music such as important works of Beethoven, Chopin, Bach, Schubert, Liszt, Brahms, and others.

*Three credit hours*

### FA 201 Fundamentals of Music

Provides students with a background of essentials necessary for intelligent reading of music. Helps develop natural musical abilities through participation in singing, rhythmic activities, and instrumental work. Creates an appreciation of music through an awareness of its basic structure.

*Two credit hours*

### Mus 100 History of Music I

Renaissance and Baroque music. Historical data for each important epoch or composer. Examples are played, analyzed, and discussed.

*Three credit hours*

### Mus 101 History of Music II

Application of the method of History of Mus 100 to the classic era.

*Three credit hours*

### 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 anticipa-

tion); dominant seventh chord (root position and inversion, regular and irregular resolutions); related dictation and keyboard application.

*Three credit hours*

### Mus 104, 105, 206, 207, 306, 307, 402

#### Applied Music

May be taken in piano, voice, or any orchestral or band instrument. One private lesson a week required with special fee.

*Four credit hours*

### Mus 106, 107, 208, 209, 308, 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.

*One credit hour*

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

#### Recital Class

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

*One-half credit hour*

### Mus 200 History of Music III

Romantic music. Music of the romantic period is played, analyzed, and discussed.

*Three credit hours*

### Mus Ed 200 Woodwind Class

Methods of teaching woodwind instruments; practical experience on various woodwinds; elements of transposition; and scoring for woodwinds. General students may take class with instructor's approval.

*Two credit hours*

### Mus 201 History of Music IV

Contemporary music. Recent tendencies in music and their relationship to music of the past. Dealing not only with harmonic but also with some of the melodic, rhythmic and structural features of 20th Century European and American music

*Three credit hours*

### Mus Ed 201 Brass Class

Methods of teaching brass instruments; practical experience on various brasses; elements of transposition; and scoring for brasses. General students may take class with instructor's approval.

*Two credit hours*

### Mus 202 Theory III

Chords of the leading-tone seventh and diminished seventh-root position and inversions (regular and irregular resolutions); modulation; unfigured bass; secondary seventh chords of related keys; expansion of non-harmonic tones; chorales and their harmonization; related dictation and keyboard application. Prerequisite: Mus 103.

*Three credit hours*

**Mus 203 Theory IV**

Chords of the ninth, eleventh, and thirteenth; altered chords; Neapolitan sixth; augmented sixth chord and inversions; general chromatic alterations; modern harmony; related dictation and keyboard application. Prerequisite: Mus 202. *Three credit hours*

**Mus Ed 300 Elementary Music Methods and Materials**

Study of approved methods and materials of music education in the elementary school. Discussion and actual teaching in the classroom. *Three credit hours*

**Mus Ed 301 Secondary Music Methods and Materials**

Study of approved methods and materials of music education in junior and senior high schools. Continuation of Mus. Ed. 300. *Three credit hours*

**Mus 302 Instrumental Conducting**

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**

Organization, training, and directing of choruses and glee clubs in high schools and junior high schools. Study and practice in technique of the baton, rehearsal technique, and problems of diction and rhythm. *Two credit hours*

**Mus Ed 302 String Class**

Class methods and materials in teaching violin. Fundamentals of violin, including bowing, tone production, intonation, and fingering techniques extended into third position. *Two credit hours*

**Mus Ed 303 String Class**

String ensemble methods and materials for beginning strings. Fundamentals of viola, cello, and string bass. Rudiments of fingering, bowing, and tone production. *Two credit hours*

**Mus 400 Instrumentation**

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

**Mus Ed 400 Music Administration and Supervision**

Designed to present an integrated picture of philosophies of administration, and to resolve problems encountered in student teaching. Also to present new viewpoints based on discussion of text and individual problems. *Three credit hours*

**Science****Sci 100 General Biology I**

Freshman course emphasizing principles of plant life. Concepts of fundamental life processes, as well as adaptations, interrelationships, and evolutionary development are stressed. *Three credit hours*

**Sci 101 General Biology II**

Freshman course emphasizing principles of animal life. Concepts, method, and activities as stated in Biology I. *Three credit hours*

**Sci 200 Physical Science I**

General principles in the field of the physical sciences including physics, geology, and astronomy. *Three credit hours*

**Sci 201 Physical Science II**

A continuation of Physical Science I with emphasis on chemistry. Prerequisite: Sci 200. *Three credit hours*

**Sci 350 Botany, Vascular Plants**

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. Prerequisite: Sci 100-101. *Four credit hours*

**Sci 351 Botany, Non-vascular Plants**

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. Prerequisite: Sci 100-101. *Four credit hours*

**Sci 352 Zoology, Invertebrate**

A study of the form, structure, and life processes of the major groups of invertebrates. The areas are considered in respect to the animal's adaptation to his environment. First-hand ecological observations and collection of specimens for material for laboratory experiences. Prerequisite: Sci 100-101. *Four credit hours*

**Sci 353 Zoology, Vertebrate**

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 experiences. Prerequisite: Sci 100-101.

*Four credit hours*

**Sci 354 Photography**

A study of the historical development of the camera, types of cameras and lenses, types of films, lighting, composition, and processing. Photography will be considered as a dynamic tool of the teacher. Class limit 10.

*Two credit hours*

**Sci 355 Natural Science**

A course primarily for teachers in the elementary school. Includes a variety of topics in the area of biology such as insect metamorphosis, bird migration, fossil records, animal communities, plant communities, animal behavior, animal 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 356 Physical Geology**

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 357 Historical Geology**

Study of the earth's history in terms of the physical, chemical, and biological changes which have taken place from its origin to the present time. Emphasis is placed upon the methods of interpreting this history through fossils and structural characteristics.

*Three credit hours*

**Sci 358 Ecology**

The interrelationships of plants and animals and their physical and biotic environments. An emphasis is placed on population dynamics and successions.

*Three credit hours*

**Sci 359 Conservation of Natural Resources**

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 Ed 360 Methods and Problems of Teaching Science**

Reading, discussions, experimentation, field trips, and other audio-visual techniques are presented and evaluated as an integral part of this course. Emphasis is placed on concept formation in science believed to be consistent with patterns of child growth and development.

*Three credit hours*

**Sci 361 Physics I**

A general course in beginning college physics. Topics include mechanics, heat and wave phenomena. Prerequisites: Sci 200-201 or permission of instructor.

*Four credit hours*

**Sci 362 Physics II**

A continuation of the first semester including magnetism, electricity, light, and selected topics in modern physics. Prerequisite: Sci 361 or the equivalent.

*Four credit hours*

**Sci 363 Astronomy**

Fundamentals of astronomy with emphasis on the planets, moon, comets, meteors, the solar system, star evolution, and telescopes.

*Three credit hours*

**Sci 364-365 General Chemistry**

A systematic study of selected fundamental principles and theories of chemistry with emphasis on inorganic chemistry. The laboratory work includes some quantitative experiments, which are closely correlated with the class discussion. Prerequisites — Sci. 200-201 (With a grade of C or better, or by permission of the instructor.)

**Sci 366 History of Science and Technology**

A comprehensive survey of the historical development of science and, to a minor extent, technology. The major emphasis will be devoted to science and scientists since 1600. Prerequisites: Sci 100-101 and Sci 200-201 (grade of C or better).

*Three credit hours*

**Sci 367 Anatomy and Physiology**

General introduction to the study of structure and function of the human organism with emphasis on the mechanisms involved in the following systems: muscular, nervous, circulatory, respiratory, digestive, excretory, endocrine, and reproductive.

*Three credit hours*

**Sci 450 Genetics**

The principles and laws of heredity with emphasis on statistical analysis and experimental literature.

*Three credit hours*

**Sci 451 Evolution**

A study of the evidence for organic evolution based essentially upon comparative anatomy, ecology, and genetics.

*Three credit hours*



## Social Science

### SS 100 History of Civilization I

A survey of history from prehistoric times through the period of discovery and conquest of the New World. The course presents concepts of history and introduces methods and uses of history. *Three credit hours*

### SS 101 History of Civilization II

A continuation of SS 101. Traces the development of characteristic features of the modern period, world issues, and the roles of the great European powers from seventeenth to the twentieth century. *Three credit hours*

### SS 200 United States History, 1789-1865

The constitutional period of United States History emphasizing growth of political forms and territorial expansion, and featuring the conflicts between slavery and humanitarianism, states rights and nationalism which led to the war between the states. *Three credit hours*

### SS 201 United States History Since 1865

Political, social and economic history of the United States since the Civil War with emphasis on political history. Reconstruction, imperialism, world politics, progressive movement, depression, cold war. *Three credit hours*

### SS 202 Principles of Geography

A basic course surveying man's habitat over the entire world. Includes a study of the tools of geography; earth relationships; the atmosphere; climatic regions of the world; landforms and their formation; the earth's waters, soils, and their formation and distribution; natural vegetation; and animal life. Also a study of world population and the world pattern of trade routes. *Three credit hours*

### SS 203 Sociology

Emphasizes the factors which influence society. Includes a study of social institutions, ethnology, social and physical anthropology, and introductory archaeology. Symposia and field trips are employed. *Three credit hours*

### SS 300 Economics

Classical economic theories, consumer education, and international economics. Emphasizing research, individual and group presentations, discussions, and lectures. Prerequisite: SS 203. *Three credit hours*

### SS 301 Maine History

An attempt is made to familiarize students with books about Maine. Stress is placed upon encouraging interest in state and local history and developing appreciation of Maine's past and her present potentialities. Wide reading in a variety of books dealing with the State is required. Each student does some research about the past of his home town. *Two credit hours*

### SS 350 World Geography

An up-to-the-minute survey of the world, giving information about continents and nations to develop an understanding of world affairs and an appreciation of geography in general. Required of all junior high social studies majors. Prerequisite: SS 202. *Three credit hours*

### SS 351 Geography of Asia

An intensive geographic study of each of the countries of the world's largest continent. Special attention given to the countries created since World War II as well as to the so-called trouble zones such as the Middle East, the 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. Special emphasis is given to the economic importance of Latin America to the United States and vice versa. Emphasis is also placed on Latin American Culture and the political relations between United States and the Latin American countries. Prerequisite: SS 202. *Three credit hours*

### SS 353 Geography of North America

An intensive regional study of North America emphasizing climate, topography, soils, natural vegetation, natural resources, agriculture, industry, transportation, and population. Also emphasizes the dependence of one region upon another, as well as the dependence of cities on rural areas and vice versa. Prerequisite: SS 202. *Three credit hours*



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

Outlines the chief diplomatic problems of the nation with emphasis on the diplomacy of the Revolution, the Civil War, World War I, and World War II.

*Three credit hours*

**SS 355 Canadian-American Relations**

This course deals with selected topics germane to the historical, cultural, economic, geographic, and political interactions of Canada and the United States.

*Three credit hours*

**SS 356 History of Russia**

Political, social and economic history of the Russian people. Equal stress on Ancient Russia, Czarist Russia, and Soviet Russia. Topics include geographic backgrounds, invasions and migrations, Byzantine influence, imperialism, westernization, revolution, and the Communist state.

*Three credit hours*

**SS 357 History of the West**

Traces the advance of the frontier from the salt water coast line to the last frontier in the Great Plains. Emphasis is placed upon the new challenges offered the pioneers and their adjustment to them. The problems of the minors, the cowboys, the shepherds and the farmers are considered. Changes in transportation and shifts in governmental policy as they pertained to the West are studied.

*Three credit hours*

**SS 358 Bible**

Study of portions of both the Old and the New Testaments. Emphasis is given to historical background, literary qualities, authorship, and materials available for more scholarly study.

*Three credit hours*

**SS 360 Modern Industry**

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

*Three credit hours*

**SS Ed 361 Teaching Social Studies in the Junior High School**

A study of current practices in teaching social studies; selection and use of the materials of instruction; modern trends in developing the social studies curriculum in the junior high school.

*Two credit hours*

**SS 362 Geography of Europe**

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

*Three credit hours*

**SS 363 American Civilization in the 20th Century**

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. Primarily historical in approach, an attempt is made to integrate the findings of the social sciences as well as literary and artistic expression.

*Three credit hours*

**SS 364 Civil War and Reconstruction**

The political, economic, social and diplomatic history of the civil war and reconstruction period.

*Three credit hours*

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

American social and cultural development as illustrated in its thought, fine arts, religion and humanitarian reforms.

*Three credit hours*

**SS 400 American Government**

The theory, organization, and practice of American government with emphasis on the national level.

*Three credit hours*

**SS 450 Archaeology**

The study, preparation, display of specimens; cataloging; and planning of further excavations. Emphasizes the history, techniques of excavation, nature and description of sites recently excavated or being excavated by the department. The processes of discovery, excavation, and scientific evaluation are stressed. Class limited to ten approved applicants. Prerequisite: SS 203.

*Three credit hours*

**SS 451 Marriage**

The factors pertaining to marital adjustment: Physical, social, psychological, and religions are emphasized. Medical school film is utilized considerably. The course is directed towards a personal counseling approach. Slides, lectures, symposia, and discussions are employed.

*Three credit hours*

**SS 452 Criminology**

Study of historical penology, crime, punishment, causes of crime, and the interrelationship of crime and contemporary American culture. Visits to penal institutions are included. Prerequisite: SS 203.

*Three credit hours*

**SS 453 Political Thought**

Introduction to classical political philosophy. Emphasis on the 19th and 20th century development of liberalism, democracy, social darwinism, nationalism, socialism, and the total state claims of fascism and communism.

*Three credit hours*



**SS 454 International Relations**

A study of the principles and practices involved in 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.

*Three credit hours*

**SS 455 Political Geography**

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

Prerequisite: SS 202. *Three credit hours*

**SS 456 Economic Geography**

A study of the economic activities of man and their physical background. Includes agriculture, mining, forests, and industry, as well as the economic significance of the sea and the geographic aspects of transportation and commerce. Prerequisite: SS 202.

*Three credit hours*

Library Interior



### Former Presidents

- WILLIAM CORTHELL, LL.D. 1878-1905  
WALTER E. RUSSELL, A.B., Ed.D. 1905-1940  
\* FRANCIS L. BAILEY, B.A., M.A.,  
Ph.D. 1940-1960

\* *President Emeritus*

### Professors Emeriti

- LOUIS B. WOODWARD, A.B., M.A. 1913-1955  
MIRIAM E. ANDREWS, B.S., M.A. 1922-1960

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### Staff Personnel

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R.N., Maine Eye and Ear Infirmary
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