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Gorham State Teachers College

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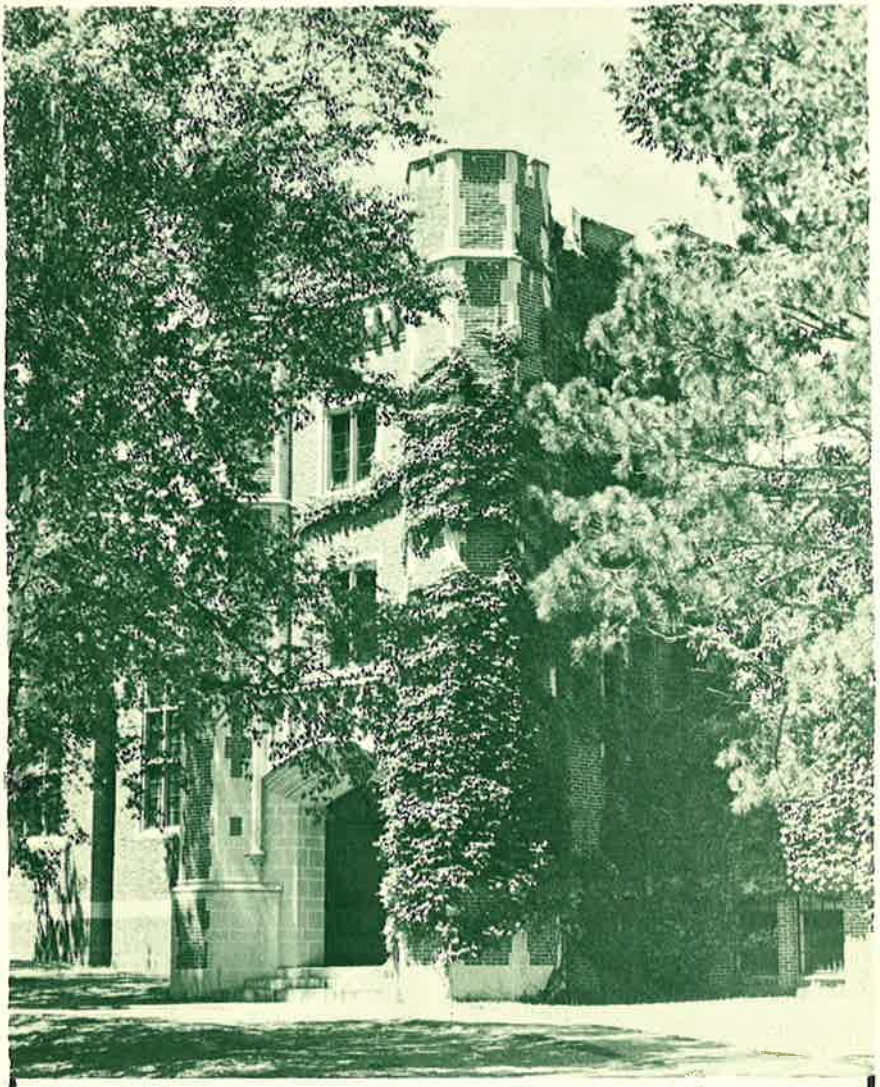


Gorham State Teachers College

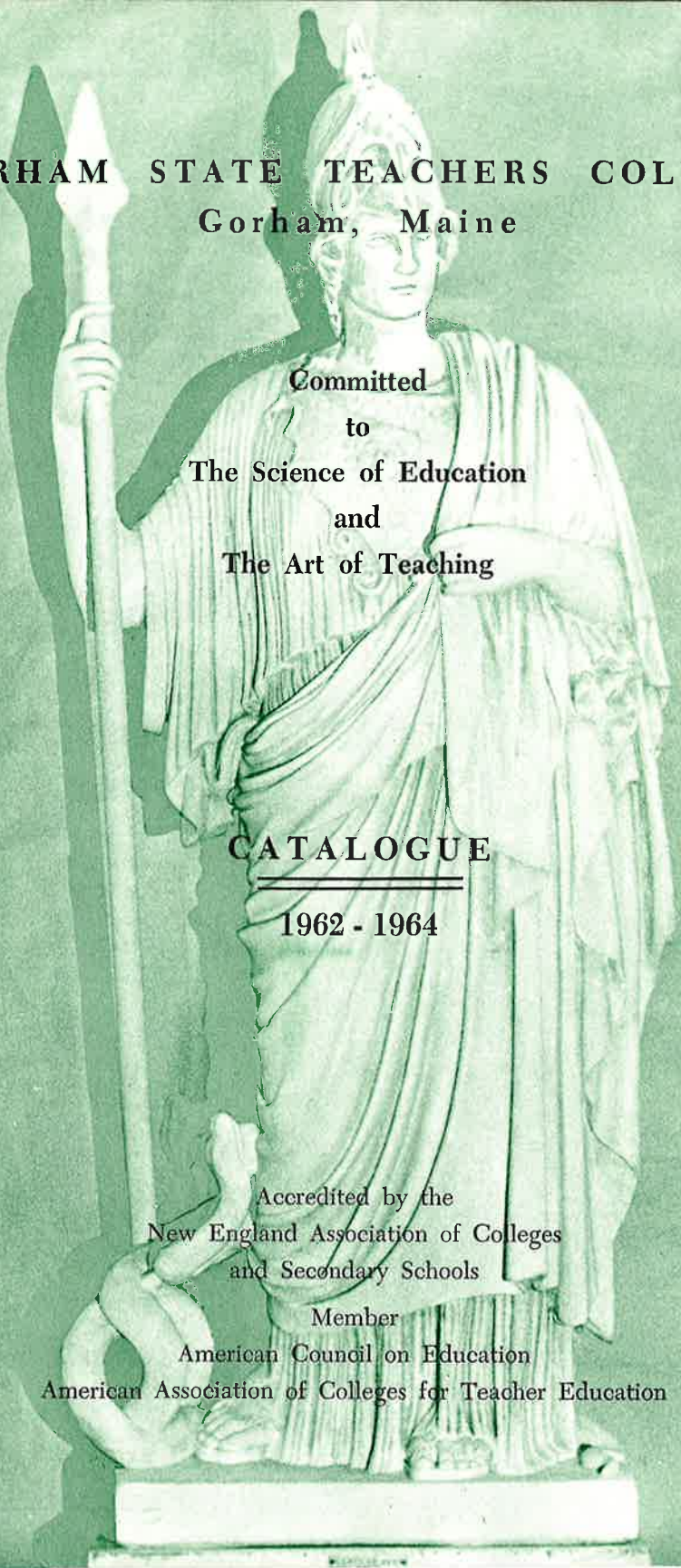
CATALOGUE

1962 - 1964

Gorham, Maine

GORHAM STATE TEACHERS COLLEGE

Gorham, Maine



Committed

to

The Science of Education

and

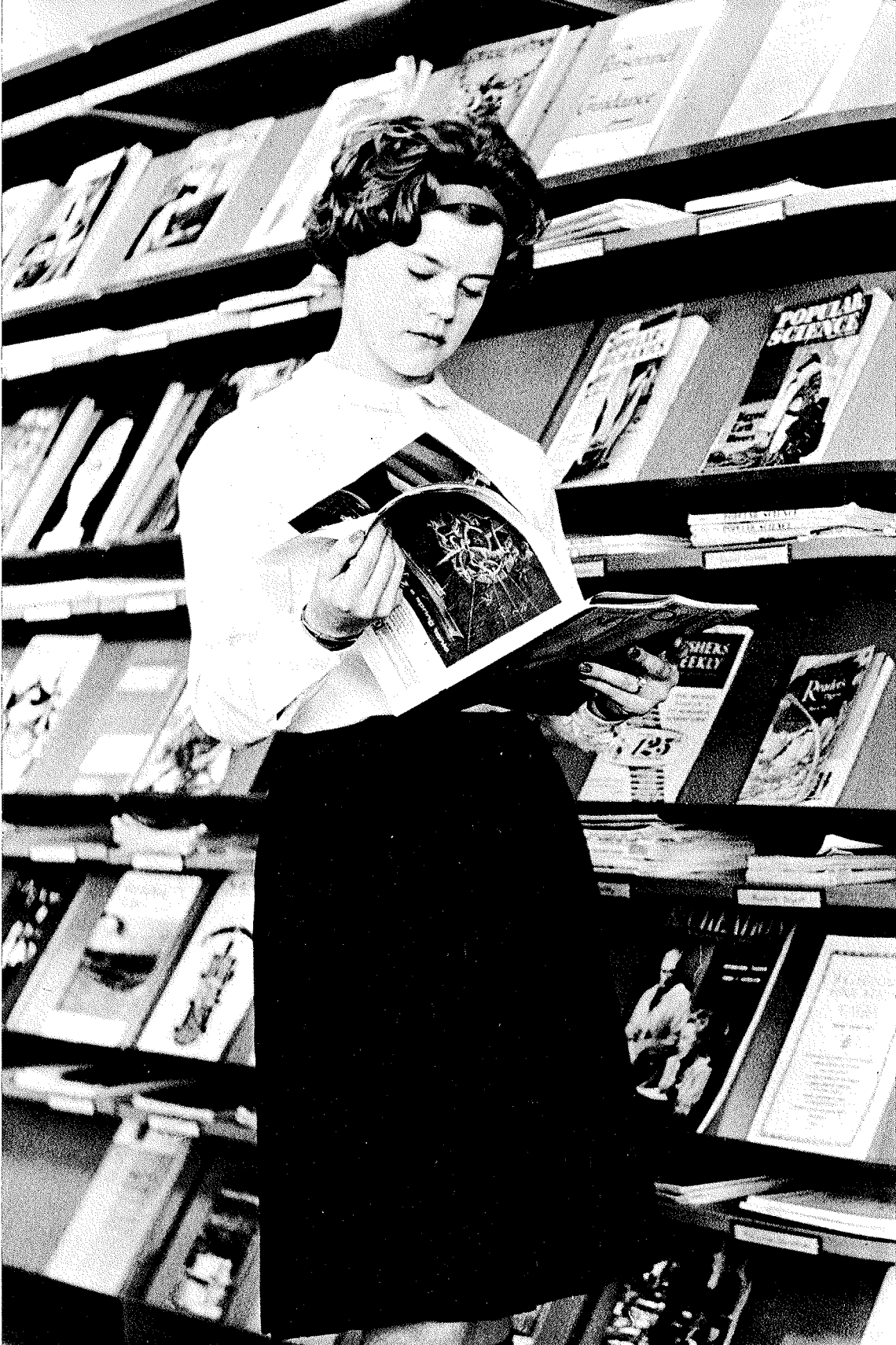
The Art of Teaching

CATALOGUE

1962 - 1964

Accredited by the
New England Association of Colleges
and Secondary Schools

Member
American Council on Education
American Association of Colleges for Teacher Education


POPULAR SCIENCE

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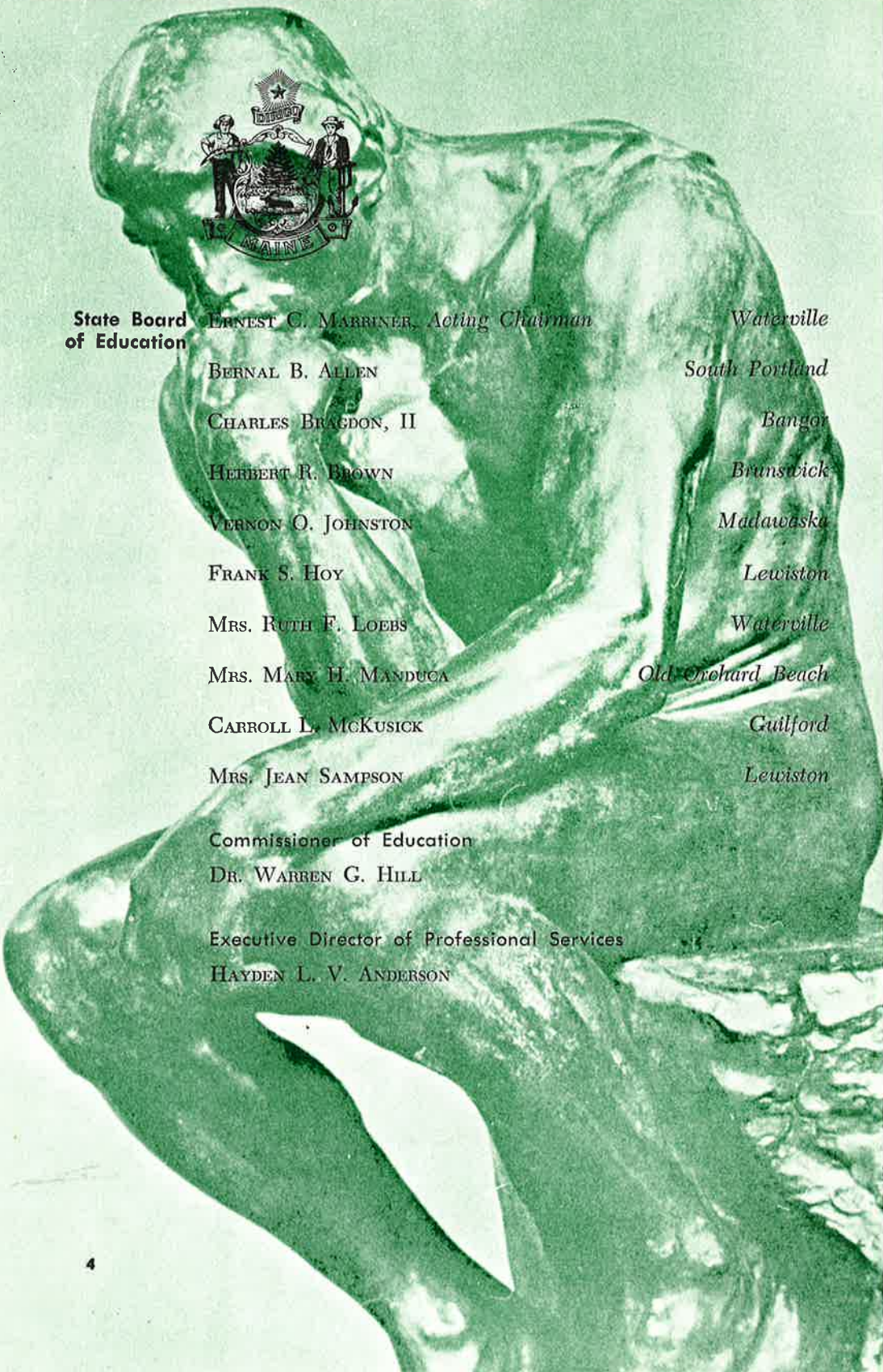

State Board of Education

Ernest C. Marriner, *Acting Chairman*	*Waterville*
Bernal B. Allen	*South Portland*
Charles Bragdon, II	*Bangor*
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Carroll L. McKusick	*Guilford*
Mrs. Jean Sampson	*Lewiston*

Commissioner of Education
Dr. Warren G. Hill

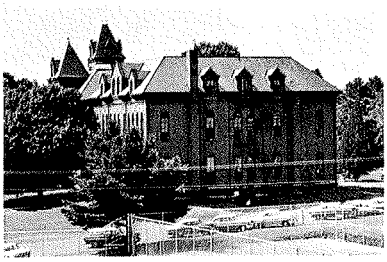
Executive Director of Professional Services
Hayden L. V. Anderson

History of the College

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 750 students and 65 faculty and staff.

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)

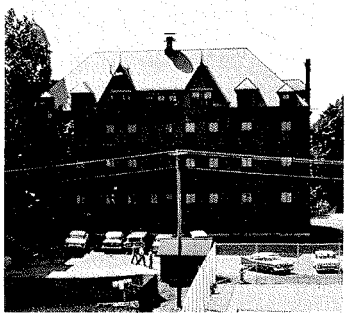


Corthell Hall

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)

Academy Building

1897 – Robie Hall (women's dormitory) constructed
1905 – Dr. Walter E. Russell appointed as second principal; Corthell Hall enlarged

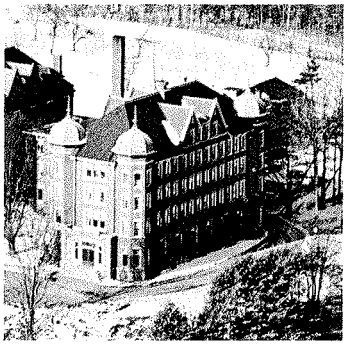


Robie Hall

1906 — President's home built
1911 — Industrial Arts program started at Gorham

President's Home

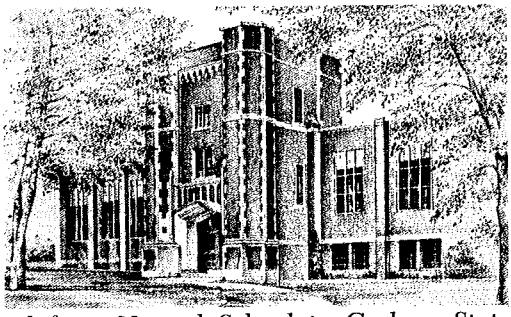
1913 — Brick Shop opened
1916 — East Hall built (renamed Andrews Hall in May, 1956)



Andrews Hall

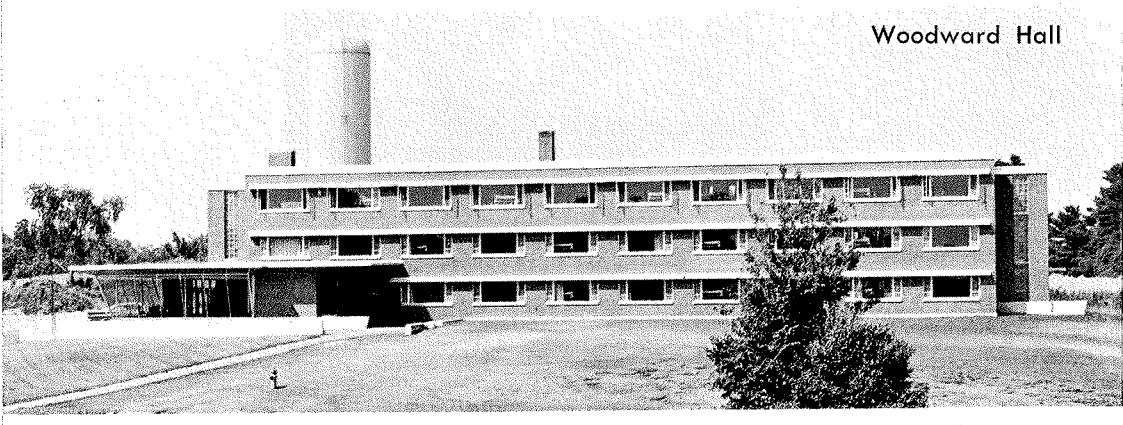
1926 — Campus School constructed
1927 — First class graduated from Kindergarten - Primary program

1931 — Russell Hall completed
1938 — First graduates of four-year program awarded degrees
1940 — Dr. Francis L. Bailey appointed president



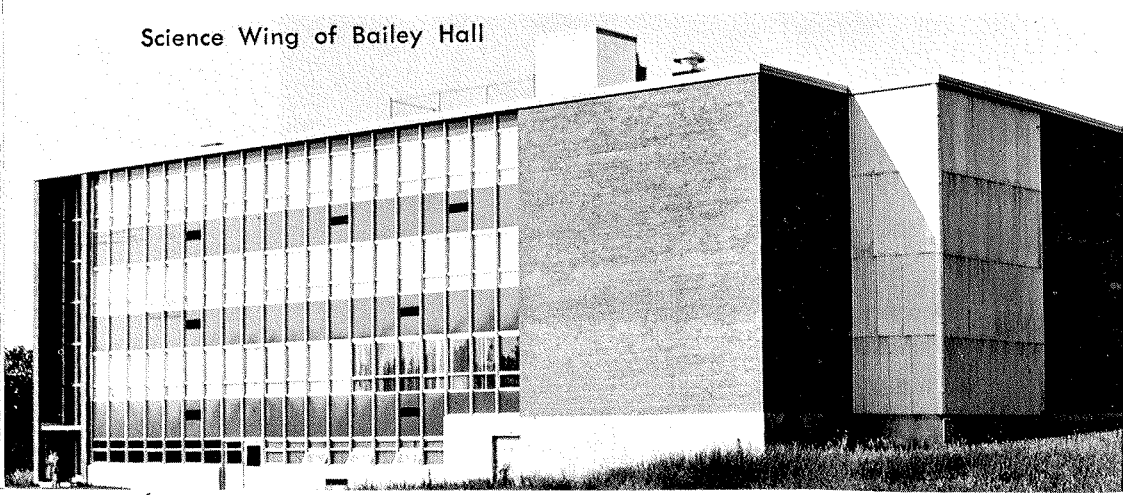
Russell Hall

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)



Woodward Hall

1958 — Program for preparation of art teachers and supervisors added
1958 — Science wing of Bailey Hall completed

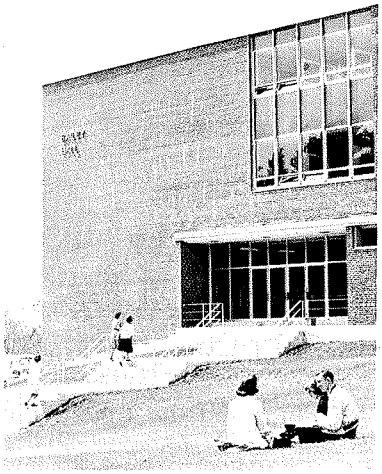


Science Wing of Bailey Hall

1960 – Upton Hall completed (dormitory for women)
1960 – Dr. Kenneth T. H. Brooks appointed president

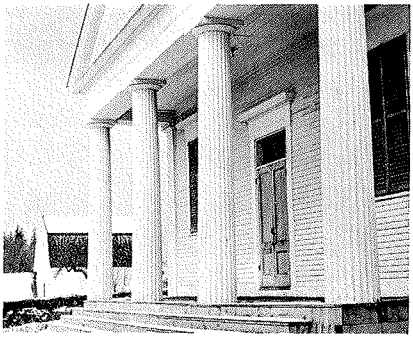
Upton Hall

1961 – Library wing of Bailey Hall completed



Library Wing of Bailey Hall

1961 – Gorham Town Hall donated to the State of Maine by the Robie family (building to be used by college for students' chapel)



Gorham Town Hall

Gorham

The town of Gorham is pleasantly located in the heart of a rich educational and recreational area of Maine, the "Vacationland." Portland, the largest city of the state, 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 from Gorham, instructors at the college enrich their teaching through trips to this city. The Sebago Lake Region, nationally known for its recreational opportunities, is only twelve miles from Gorham. Thus all winter and summer sports are a part of the extracurricular experiences of students.

The Campus

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.

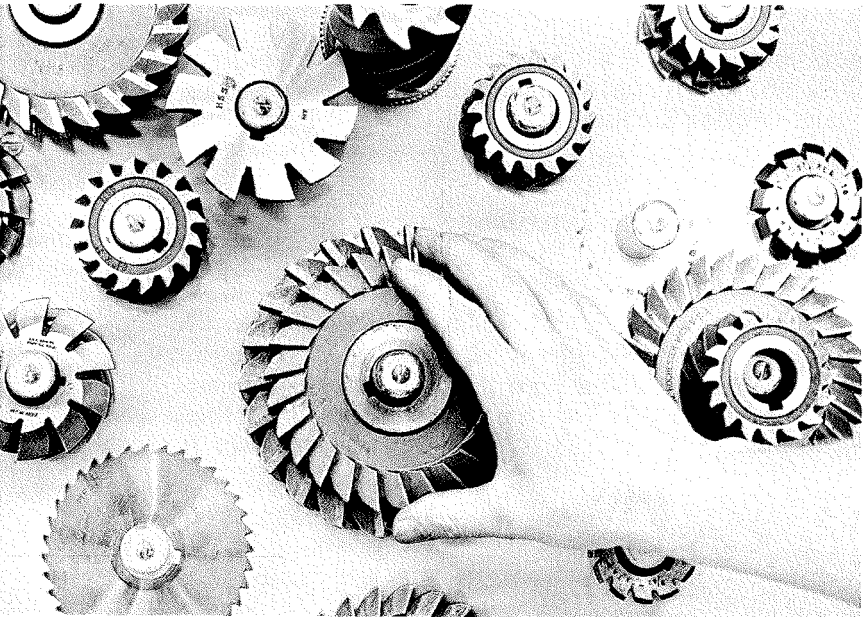
The Evening College

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.

The Summer School

A six-week summer session is conducted every other 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 want to accelerate their programs or remove deficiencies, and high school graduates interested in self-improvement also attend the summer school. 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 school are usually transferable to other colleges.

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.



Philosophy and Objectives of Gorham State Teachers College

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

The college seeks to develop graduates of professional competence and personal character whose careers will reflect the concern of the college 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 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 growth.

Admission Requirements

I. Academic Standards

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

a. College Preparatory English	4 units
b. College Preparatory Mathematics	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.

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 during a personal interview at the college.
2. Industrial Arts
   Applicants for the Industrial Arts Education Program are required to take special aptitude tests at the college.
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 at the college.

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 Registrar from the colleges attended. Student copies are not acceptable.

Admission Procedures

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

1. Obtain a copy of the college 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.

Annual Expenses

TUITION:	
Maine Resident	$100.00
Non-Maine Resident	200.00
ROOM:	
Dormitory Resident	$189.00
Off-Campus Resident (estimated)	$150.00-$200.00
BOARD:	
For all meals served in dormitories	$324.00
STUDENT ACTIVITY FEE:	$ 25.00
REGISTRATION FEE: (must accompany application)	$ 5.00
INSURANCE:	$ 14.00
INFIRMARY FEE	$ 5.00
BOOKS: (estimated)	$ 75.00
COURSE FEES:	
Industrial Arts Majors (Average of four years)	$ 30.00
Art Majors (Average of four years)	$ 15.00
Music Majors (Includes cost of private lessons)	$150.00
All other students	$ 5.00

(Fees for Industrial Arts and Art Majors vary annually from a low of $5.00 to a high of $47.00).

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 July 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.

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.

The George P. Davenport Student Loan Fund

This fund is to be used for making small loans to deserving students who are residents of the State of Maine, preferably graduates of Morse High School, Bath, Maine, who are temporarily in need of money to pay for their education. There is a small interest charge.

The Hervey A. Hanscom Scholarship Fund

This scholarship is to be awarded to a deserving student from the town of Lebanon, Maine.

The Frances Howarth Scholarship Fund

Income from the Frances Howarth Fund is to be awarded to a promising girl student who is preparing for a teaching career.

The Charles F. Martin Scholarship Fund

Given in memory of Charles F. Martin, this scholarship is awarded to a worthy student who has been selected for this honor by the Committee on Student Aid.

The Gertrude L. Stone Scholarship Fund

The $100.00 scholarship is awarded annually to an outstanding student at Gorham State Teachers College.

The 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. The amount of the scholarship is $100.00.

The Barbara Silver Scholarship

This $50.00 scholarship was made possible by the Class of 1955. The prize is awarded annually to a worthy student in memory of Barbara Silver.

The Genevieve Houston Hasson Scholarship

Donated by the Class of 1950, the $100.00 annual scholarship is presented to students who merit recognition and financial aid.

The Southern Branch Alumni Association Scholarship

To encourage and help worthy students, the Southern Branch of the Gorham Normal School and State Teachers College Alumni Association offers a $50.00 scholarship each year, with the stipulation that the recipient repay the sum after graduation to assure continuation of the scholarship.

The Portland Branch Alumni Association Scholarship

Portland members of the Gorham Normal School and State Teachers College Alumni Association provide a $100.00 scholarship annually for the student who, in the opinion of the committee, deserves this reward.

Work Opportunities

The college operates an extensive program of student work which includes janitorial and cleaning services, waiting on table, dishroom and kitchen services, library work, and other special services. The amount a student earns depends upon the amount of time spent and the nature of the work. Applications for work are made directly to the college.

General Information

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.

Housing

The college provides living accommodations for both men and women students. Woodward Hall houses ninety-six men; Robie and Andrews Halls, about two hundred women, and Upton Hall, one hundred and fifty women. There are two dining rooms for resident students.

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 can not 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.

Scholarship Standards

Attendance

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.

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
W – 0 quality point

In order to be eligible for the degree of Bachelor of Science, a student must have earned a 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.

Course Credits

To progress satisfactorily through college, a student is expected to carry sixteen credit hours each semester. Since 128 credit hours are required for graduation, 32 should be earned each year. Special 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.

The Advisory Program

Every student is assigned to a faculty advisor who assists the student in planning his program of studies during the four years at college. The advisor is also available for scholastic or personal consultations 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.

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 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 the placement office 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 performs 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

The first aim of the chorus is to cultivate in its members a deep appreciation of good music and a love of singing for its own sake,

as well as skill in its execution. Several public concerts are given annually.

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

All students who play musical instruments are eligible for membership. The band usually provides music at certain athletic and other college events.

Canterbury Club

Episcopalian students have an opportunity to develop spiritually, intellectually, and socially through this club. Meetings are held at Trinity Church in Portland.

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.

Choristers

A group of twenty-five women students especially chosen from the A Cappella Chorus for their musical ability and interest.

Commuters Club

This club brings commuters together in order to give them the opportunity to participate in college projects and to enter into the college social life.

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 apportions 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 House Committee

The governing body of the women's residence halls. It strives to serve and 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.

The Elementary School Teacher Curriculum

The Elementary School Teacher program prepares students to teach children in Kindergarten-Primary classes and in grades one to eight inclusive. Courses in liberal education provide the basis for professional work directed toward understanding of the learner and the learning process, knowledge of the educational system and mastery of methods and techniques of teaching. Actual experience in working with children in many types of activities is an integral part of the program.

The Junior High School Teacher Curriculum

The Junior High School Teacher program prepares teachers of English, mathematics, science, and social studies for grades 7, 8, and 9. One major and one minor area of concentration are required of each student in this program. Physical Education may be elected as a minor subject. Graduates are qualified to teach in the junior high school.

The Art Teacher Curriculum

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 of the public schools.

The Industrial Arts Curriculum

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.

The Music Curriculum

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 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.

PROGRAMS OF STUDIES

for

General Elementary Majors

Kindergarten-Primary Majors

Junior High Majors

Art Majors

Industrial Arts Majors

Music Majors

(The following programs of studies will be in effect during the 1962-1964 academic year. Faculty committees and the administration are presently revising all programs to assure the best possible preparation of future teachers. The complete revision of all curricula should be ready in 1963. Please consult the latest publication about required programs of studies.)

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

Program of Study

			Credit Hours
		FRESHMAN YEAR	
Eng	100-101	English Composition	6
*Math	100-101	College Math or Mathematical Analysis	3
Sci	100-101	Biological Science	6
SS	100-101	History of Civilization	6
FA	100-101	Art and Music History and Appreciation	6
Ed	100	Introduction to Teaching	2
PE	100-101	Physical Education	1
PE	102	Health and Hygiene	2
		SOPHOMORE YEAR	
Eng	200-201	English and American Literature	6
**Sci	200-201	Physical Science	6
SS	200-201	United States History	6
SS	202	Principles of Geography	3
SS	203	Sociology	3
FA	200-201	Fundamentals of Art and Music	4
PE	200-201	Physical Education	1
Psy	200	General Psychology	3
		JUNIOR YEAR	
Ed	300-310	The Child and His Curriculum	15†
Psy	300/301	Child Psychology or Adolescent Psychology	2
SS	300	Economics	3
SS	301	Maine History	2
Ed	302	Measurement and Evaluation	2
Electives			12
		SENIOR YEAR	
SS	400	American Government	3
Ed	400	Orientation to Student Teaching	1
Ed	401	Philosophy of Education	3
Ed	402	Student Teaching	16
Eng	400	Speech	2
Electives			5

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

**Science elective may be substituted by students who have pursued an adequate high school program and pass a science qualifying test.

†Junior High Majors have only 12 credit hours.

Art Majors

			Credit Hours
		FRESHMAN YEAR	
SS	100	History of Civilization	3
Eng	100-101	English Composition	6
Sci	100	Biological Science	3
FA	100	Art Appreciation and History	6
FA	101	Music Appreciation and History	3
Art	100	Fundamentals of Art	3
PE	100-101	Physical Education	1
Ed	100	Introduction to Teaching	2
Art	101	Arts and Crafts I	2
		SOPHOMORE YEAR	
Eng	200-201	English and American Literature	6
SS	203	Sociology	3
SS	202	Principles of Geography	3
SS	200	United States History	3
Psy	200	General Psychology	3
Art	200	Design I	2
Art	201	Elements of Vision	3
Art	202	Arts and Crafts II	2
Art	203	Design II	2
Art	204	Drawing Techniques I	3
Art	205	Contemporary Art	3
		JUNIOR YEAR	
Psy	300 or 301	Child or Adolescent Psychology	2
Ed	400	Orientation to Student Teaching	1
Art	300	Integrated Arts	3
Art	301	Drawing Techniques II	3
Art	302	Three Dimensional Art	2
Art	303	Metalwork and Jewelry	2
Art	304	Aesthetics	3
Art	305	Lettering and Display	2
Art	306	Painting Techniques I	3
Art Ed	300	Teaching of Art	3
Art	307	Ceramics	2
Electives			6
		SENIOR YEAR	
Ed	402	Student Teaching	16
Art Ed	400	Problems in Art Education	3
Ed	401	Philosophy of Education	3
Art	400	Painting Techniques II	3
Art	401	Advanced Problem in Art	3
Art	402	Weaving	2
Electives			3

Industrial Arts Major

			Credit Hours
		FRESHMAN YEAR	
Eng	100-101	English Composition	6
Math	100-101	College Mathematics I and II	6
PE	100-101	Physical Education	1
PE	102	Health and Hygiene	2
Ed	100	Introduction to Teaching	2
IA	100	Sketching Techniques	2
IA	101	Metals Technology	6
IA	102	Electricity	6
FA	102	Essentials of Art and Design	2
		SOPHOMORE YEAR	
SS	203	Sociology	3
Psy	200	General Psychology	3
Sci	200-201	Physical Science	6
IA	200	Technical Drawing	2
IA	201	Wood Technology	6
PE	200-201	Physical Education	1
SS	300	Economics	3
Eng	400	Speech	2
IA	202	Machine and Architectural Drawing	2
IA	203	Power and Transportation I	6
		JUNIOR YEAR	
Ed	311	Measurement and Evaluation	3
SS	360	Modern Industry	3
IA	300	General Shop Organization	5
IA	301	Electronics	4
IA	302	Graphic Arts I	2
IA	303	Metals Fabrication	4
IA	304	Power and Transportation II	4
IA Ed	305	Methods and Materials of Instruction	4
Elective (Ed.)			3
		SENIOR YEAR	
Ed	402	Student Teaching	16
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	3
IA	406	Graphic Arts II	3
IA	407	Arts and Crafts	2
Elective (Ed.)			3

Music Majors

			Credit Hours
		FRESHMAN YEAR	
Eng	100-101	English Composition	6
Ed	100	Introduction to Teaching	2
Psy	200	General Psychology	3
Mus	100-101	History of Music I and II	6
Mus	102-103	Theory I and II	6
Mus	104-105	Applied Music	8
Mus	106-107	Vocal Ensemble	2
Mus	108-109	Recital Class	1
PE	100-101	Physical Education	1
		SOPHOMORE YEAR	
SS	203	Sociology	3
FA	100	Art Appreciation and History	3
Mus	200-201	History of Music III and IV	6
Mus	202-203	Theory III and IV	6
Mus Ed	200	Woodwind Class	2
Mus Ed	201	Brass Class	2
Mus	206-207	Applied Music	8
Mus	208-209	Vocal Ensemble	2
Mus	210-211	Recital Class	1
PE	200-201	Physical Education	1
		JUNIOR YEAR	
Mus Ed	300-301	Elementary and Secondary Music Methods and Materials	6
Mus	302	Instrumental Conducting	2
Mus	303	Vocal Conducting	2
Mus Ed	302-303	String Class	4
Mus	306-307	Applied Music	8
Mus	308-309	Vocal Ensemble	2
Mus	310-311	Recital Class	1
Sci	200	Physical Science I	3
Science Elective			3
English Elective			3
		SENIOR YEAR	
Ed	402	Student Teaching (Applied Music also required depending on individual needs)	16
Eng	400	Speech	1
Mus	400	Instrumentation	3
Mus Ed	400	Music Administration and Supervision	3
Mus	402	Applied Music	3
Mus	403	Vocal Ensemble	1
Mus	404	Recital Class	½
Social Science Electives			5

ELECTIVES

ART

			Credits
Art	101	Arts and Crafts I	2
Art	200	Design I	2
Art	201	Elements of Vision	3
Art	202	Arts and Crafts II	2
Art	203	Design II	2
Art	204	Drawing Techniques I	3
Art	205	Contemporary Art	3
Art	401	Advanced Problem in Art	3

EDUCATION

Ed	450	Dynamics of Adjustment	2
Ed	451	Educational T.V. and Advanced A.V. Aids	3
Ed	452	Remedial Reading	3

ENGLISH

Engl	350	Children's Literature	2
Engl	351	Improvement in Composition	2
Engl	352	Shakespeare	3
Engl	353	Survey of English Literature	3
Engl	354	Teaching English in the Junior High School	2
Engl	450	Enjoyment of Poetry	2
Engl	451	The Short Story	2
Engl	452	Educational Dramatics	3
Engl	453	American Drama	2
Engl	454	Contemporary Literature	3
Engl	455	The Novel	2
Engl	456	Creative Writing	2

INDUSTRIAL ARTS

IA	350	Arts and Crafts	2
IA	351	Industrial Arts for Elementary School	2

MATHEMATICS

Math	350	College Algebra and Trigonometry	4
Math	351	Analytic Geometry and Calculus I	4
Math	352	Mathematical Statistics	3
Math	450	Calculus II	4
Math	451	College Geometry	3
Math	452	Modern Mathematics	3
Math	453	Abstract Algebra	3
Math	454	Foundations of Mathematics	3

MUSIC

A Cappella Choir	0
Band	½
Gorham Chorale	0
Instrumental Ensemble	½
Men's Glee Club	½
Women's Glee Club	½

PHYSICAL EDUCATION

PE	350	Teaching P.E. in Elementary and Junior High Schools	3
PE	351	Safety and First Aid	3
PE	352	Personal and Community Health	3
PE	353	Coaching	3
PE	354	Program Planning in Physical Education	3
PE	355	Modern Dance	0
PE	450	History and Philosophy of Physical Education	3
PE	451	Organization and Administration of Physical Education	3
PE	452	Outdoor Education	3

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	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	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	361	Teaching Social Studies in the Junior High School	2
SS	362	Geography of Europe	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

All courses in the above categories numbered below 50 are required. Courses numbered above 50 are elective. Example: **Eng 100** is a required Freshman English course. **Eng 354** is a Junior year elective English course.

Art

FA 100 Art Appreciation and History
A study of the spatial arts of architecture, sculpture, painting, and the handcrafts from prehistoric times to the present.
Three credit hours

FA 102 Essentials of Art and Design
Color theory, principles of design, and art appreciation. Applications of various art media. Selection and appraisal of traditional and contemporary art forms and theories.
Two credit hours

FA 200 Fundamentals of Art
An introduction to the materials and tools of art with practical application based on the fundamental principles of design and arrangement, color and perspective.
Two credit hours

Art 100 Basic Art
An introduction to the principles and basic materials of art. A general exposure to all art media to provide a foundation for future art concentration. *Three credit hours*

Art 101 Arts and Crafts I
An introduction of three-dimensional arts for elementary grades using simple tools and materials for the crafts which may be found in the average classroom. Prerequisite; Art 100. *Two credit hours*

Art 200 Design I
The principles of harmony, balance, proportion and rhythm applied to the art elements in pattern, designs, and arrangements using various media. *Two credit hours*

Art 201 Elements of Vision
A study of light and dark, color, perspective, etc. as each affects the way we see lines, areas, forms, and textures in space.
Three credit hours

Art 202 Arts and Crafts II
Three-dimensional arts for advanced elementary, junior, and senior high schools, including projects in art metalwork, weaving, ceramics, block printing, bookbinding, textile painting, leatherwork, etc. Prerequisite: Art 101. *Two credit hours*

Art 203 Design II
Advanced work in the study of design as it is applied to both two and three-dimensional art. Prerequisite: Art 200.
Two credit hours

Art 204 Drawing Techniques I
An introduction to the possibilities and limitations of the various media used in drawing and sketching such as pencil, crayons, pastels, charcoal, pen and ink, etc.
Three credit hours

Art 205 Contemporary Art
A course designed to help the student to understand so-called "modern" art today.
Three credit hours

Art 300 Integrated Arts
A study of ways in which the art program in the school may help to motivate, clarify, and enrich other subjects of the curriculum.
Three credit hours

Art Ed 300 Teaching of Art
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 classroom. *Three credit hours*

Art 301 Drawing Techniques II
Advanced study in drawing and sketching with special emphasis on the use of various media in pictorial art involving landscape, still life, and figure drawing. Prerequisite: Art 204. *Three credit hours*

Art 302 Three-Dimensional Art
Experimentations of form in space involving sculpture, stabiles, mobiles, etc.
Two credit hours

Art 303 Metalwork and Jewelry
Introducing basic tools, materials, and methods used for jewelry and art metalwork projects. *Two credit hours*

Art 304 Aesthetics
A study of the theory of beauty as revealed to us by great historical philosophers and as applied to our understanding of the fine arts of architecture, sculpture, painting, music, and literature. *Three credit hours*

Art 305 Lettering and Display
Basic principles of lettering and poster design, matting, framing, and display.
Two credit hours

Art 306 Painting Techniques I
Beginning instruction in water color, tempera, gouache, and oil paintng techniques.
Three credit hours

Art 307 Ceramics
Involves the manipulation of various clays and glazes used in making pottery by hand, on the wheel, and in molds.
Two credit hours

Art 400 Painting Techniques II
Advanced instruction in the medias experienced in Painting Techniques I plus an introduction to some of the newer experiments in pictorial art. Prerequisite: Art 306.
Three credit hours

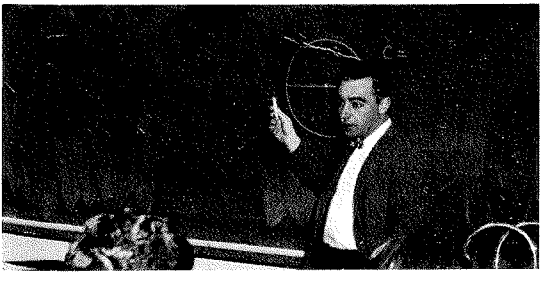
Art Ed 400 Problems in Art Education
A course designed primarily for the student who has already had student teaching in art with the idea of discussing and thereby solving problems which might have arisen at the time of teaching. An attempt is also made to form in each student's mind some sort of basic philosophy of art education. Prerequisite: Ed 402. *Three credit hours*

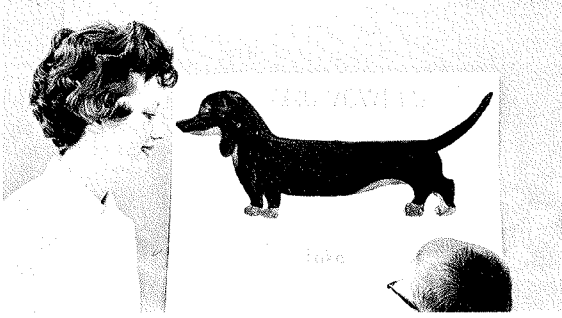
Art 401 Advanced Problem in Art
An opportunity for the student to do advanced independent study in some field of art in which he has particular interest. The completion of a definite project in art or art education is required. Senior AE only.
Three credit hours

Art 402 Weaving
The fundamentals of weaving on various types of looms from simple card weaving to four-heddle pattern weaving.
Two credit hours

Math 452 Modern Mathematics

Math 453 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.





Education and Psychology

Ed 100 Introduction to Teaching
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*

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*

Ed 300-310 The Child and His Curriculum
This is a series of coordinated courses designed to prepare teachers who understand the philosophy, the functions, and the organization of modern 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 specilization:

Kindergarten-Primary	Credit Hours	(15)
Primary Curriculum and Materials (Science, Social Studies, Language, Arts)	(3)	Ed 300
Nursery School and Kindergarten	(2)	Ed 301
Audio-Visual Aids	(1)	Ed 310
Elementary Reading	(2)	Ed 303
Elementary Arithmetic	(3)	Ed 305
Art in Elementary Education	(2)	Ed 307
Music in Elementary Education	(2)	Ed 308
General Elementary	Credit Hours	(15)
Elementary Curriculum and Materials (Science, Social Studies, Language Arts)	(3)	Ed 302
Audio-Visual Aids	(1)	Ed 310
Elementary Reading	(2)	Ed 303
Elementary Arithmetic	(3)	Ed 305
Art in Elementary Education	(2)	Ed 307
Music in Elementary Education	(2)	Ed 308
One elective methods course	(2)	

Junior High School	Credit Hours (12)	
Junior High Organization and Materials	(2)	Ed 309
Advanced Reading	(2)	Ed 304
Junior High Mathematics	(3)	Ed 306
Audio-Visual Aids	(1)	Ed 310
Elective methods		
Major	(2)	
Minor	(2)	

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.
Two 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.
Two 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 400 Orientation to Student Teaching
Review of elements which make teaching a profession, application of the NEA code of ethics to student teaching, introduction to school law, instruction in ways of working with school personnel and with people in the community, a study of procedures in self-evaluation, and suggestions for professional growth of beginning teachers.
One credit hour

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. *Sixteen 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. *Two credit hours*

Ed 451 Educational T.V. and Advanced Audio-Visual Aids
A seminar-type course dealing with a most modern audio-visual teaching tool today. The types of and uses of educational television are developed, including open-circuit, closed-circuit, and college use of educational television. Up-to-date current topics related to television and education are discussed; also advanced related audio-visual techniques, materials, and equipment are explored. Direct current research problems and techniques on the part of the student enable one to be involved in the educational television field. *Three 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

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

Library Science
To promote better use of the library through the study of arrangement of books and materials, printed parts of a book, dictionaries and encyclopedias, card catalog, periodical indexes, bibliographies and book lists, and a selected list of reference books. Taught by the college librarian as a part of Eng 100-101.

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
Designed to aid students desiring to gain improvement in mechanics of expression. Relates grammar to modern techniques of writing. Reading of selected writings provides models for related exercises.
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 course

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 course

Eng 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 course*

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
A course for upperclassmen designed to teach comparisons of good and bad poetry. Includes the emotions of poetry, and the techniques. Extensive reading of all poetic types. *Two credit course*

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 course

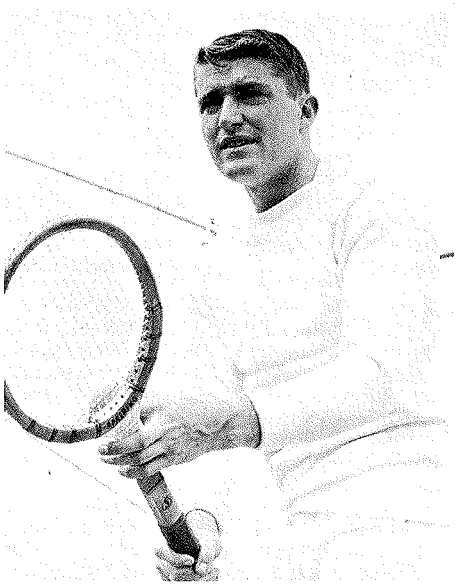
Eng 452 Educational Dramatics
Practical guidance for future teachers in directing plays in schools. Considers the problems involved in choosing a script, in casting, and in conducting rehearsals. Students not only learn the methods of educational dramatics but study plays for an understanding of plot structure and technique.
Three credit course

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*



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 100-101 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*

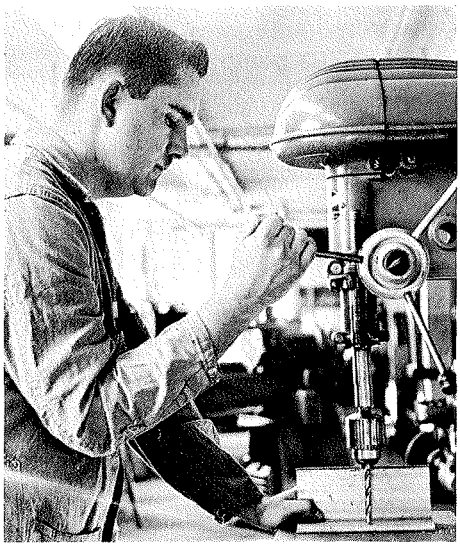
PE 354 Program Planning in Physical Education
Trends in the planning of programs. Criteria for selecting the activities. Programs for special occasions. Activity preferences of various age levels. Opportunity given to work out programs with Campus School students.
Three credit hours

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 100 Sketching Techniques
Lines, shapes, lettering, and their application. Pictorial and other orthographic representations, blackboard sketching, cartooning, and techniques of illustrating. *Two credit hours*

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. *Six 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. *Six 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. *Six credit hours*

IA 202 Machine and Architectural Drafting
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. *Six 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. *Five credit hours*

IA 301 Electronics
Fundamentals of electronics. Industance, capacitance, and resistance applications in electronic equipment. Trouble shooting procedures. Prerequisite: IA 102. *Four 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.
Two 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.
Four 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.
Four 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. *Four 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.
Two credit hours

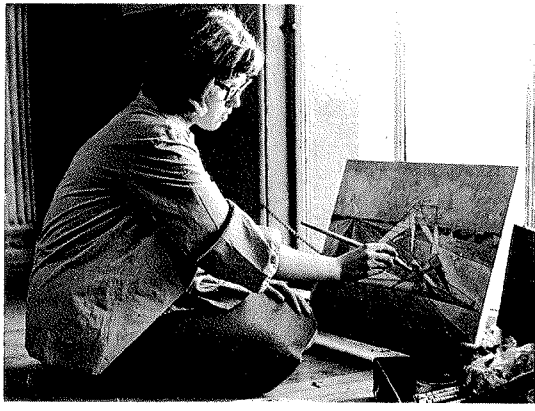
IA Ed 403 Analysis and Course Development
Curriculum construction in industrial arts based on an analysis of student interests and needs, curricular objectives and instructional content. Techniques of course development involving resource units, experience units, instructional units, and trade and job analysis are discussed and evaluated. Development of teaching units discussed and specimen courses of study required. Prerequisite: Ed 402. *Three credit hours*

IA 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. *Three 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. *Three 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 College Mathematics I
A required course for all freshmen except those who enroll in Math 101. Topics stressed include a modern interpretation of the number system and its operations, algebraic symbols and operations, linear equations, special products and factoring, algebraic fractions, exponents and radicals, quadratic equations, proportion, variation and formulas. Emphasis placed on the conceptual part of these topics rather than on the operations themselves. *Three credit hours*

Math 104 College Mathematics II
(for I.A. students only) Because of the specialized nature of the course an eclectic approach to the usual areas of college mathematics governs the content of the course. Topics included are: logarithms, theory and operation of the slide rule, graphical methods, and trigonometric functions.
Three credit hours

Math 101 Mathematical Analysis I
A substitute course for Math 100. Study of the recent developments in mathematics as well as the content of the usual course in College Algebra. Initial part is devoted to such topics as: logic, number system, groups, fields, and sets. Additional emphasis on algebraic symbols and operations, fractions, exponents and radicals, functions and their graphs, quadratic equations, systems of linear equations, and systems of quadratic equations. Prerequisites: Two entrance units of mathematics and satisfactory achievement on standardized tests. *Three credit hours*

Math 101 Mathematical Analysis II
Additional work with exponential equations, logarithms, binomial theorem, progressions, complex numbers, theory of equations, determinants, permutations and combinations, probability, treatment of analytic trigonometry together with essential elements of numerical trigonometry in relation to right and to oblique triangles. Integrated treatment of algebra and trigonometry in many instances. *Four credit hours*

Math 351 Analytic Geometry and Calculus I
Essentially a course in the differentiation and integration of algebraic functions with analytic geometry as needed. Includes basic applications of maximum and minimum values, curve tracing, rate of change, and integration as a process of summation. Prerequisite: Math 350. *Four credit hours*

Math 352 Mathematical Statistics
A first course in mathematical statistics including such topics as: frequency distributions and their statistics, moments, special averages, the normal curve, statistical inference, curve fitting, regression and correlation, and the binomial distribution.
Three credit hours

Math 450 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 351.
Four credit hours

Math 451 College Geometry
Encourages constructive reasoning by stressing generalizations, alternate solutions, and related problems. Topics stressed are: review of fundamental concepts, directed elements, constructions, geometric loci, elementary transformations, and inversion.
Three credit hours

Math 452 Modern Mathematics
A modern approach to selected topics in mathematics, including symbolic logic, sets, functions and relations, introduction to modern algebra and geometry.
Three credit hours

Math 453 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 454 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*

Ed 305 Elementary Arithmetic
Recommended ideas in presenting arithmetic up through the sixth grade that is socially and mathematically meaningful, preparation of teaching materials and devices, evaluation of current textbooks, arithmetic for the slow learner and for the gifted, grouping, unit teaching.
Three credit hours

Ed 306 Junior High School Mathematics
Currently recommended ways of teaching junior high school mathematics, with emphasis on both mathematical and social understanding; diagnostic testing and remedial teaching; evaluation of new books and materials; programs for teaching both the slow learner and the advanced pupil.
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 101 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, auxilliary, appoggiatura, suspension, and anticipation); 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. Study of the style of various periods. *Two credit hours*

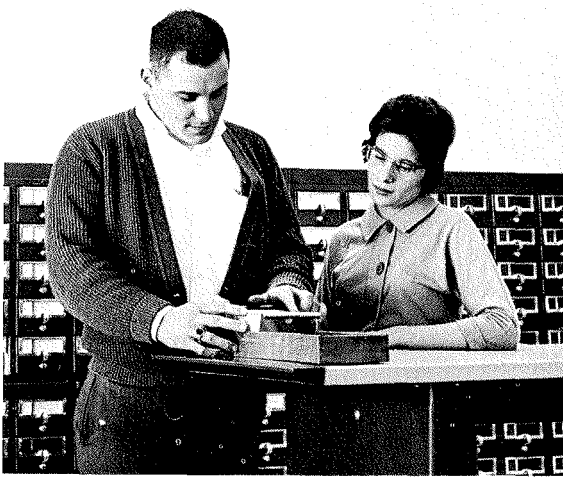
Mus 303 Vocal Conducting
Organization, training, and directing of choruses and glee clubs in high schools and junior high schools. Study and practice in technique of the baton, rehearsal technique, and problems of diction and rhythm. *Two credit hours*

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 environ-

ment. 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 course interprets the earth's surface as a result of the work of streams, glaciers, vulcanism, erosion, and other geological agents. The identification of rocks and minerals is included. Prerequisite: Sci 200-201.
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 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. *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 course covering the basic concepts and theories of inorganic chemistry, including some concepts of qualitative, quantitative, and organic chemistry. Prerequisites: Sci 200-201 or equivalent. *Four credit hours*

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 heridity 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 the pupils 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 359 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 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 400 American Government
The theory, organization, and practice of American government with emphasis on the national level. Required of seniors.
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

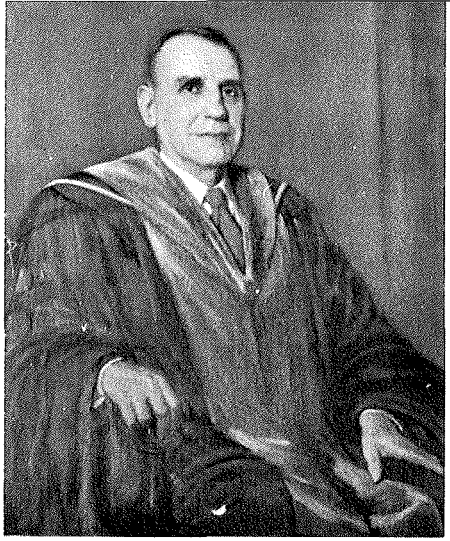
SS 455 Political Geography
A study of the geography of the major political units of the world with special reference to such factors as location, size, shape, natural resources, population, boundaries, ethnographic structure, language, religion, type of government, colonies and colonial problems. Special 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

DANCE

ART

ARCHERY



DOCTOR FRANCIS L. BAILEY

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

Professors Emeriti

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

Administrative Personnel

KENNETH T. H. BROOKS
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A.B., University of New Hampshire
Ed.M., Ed.D., Boston University

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B.Ed., Keene Teachers College
M.A., New York University

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M.S., University of Maine

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B.S., M.A., Columbia University

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Ed.M., Boston University

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B.S., Fitchburg State Teachers College
M.A., University of Minnesota
Ed.D., Pennsylvania State University

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A.B., Colby College
Ed.M., Boston University

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College Nurse
R.N., Maine Eye and Ear Infirmary

CELIA GROSS
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B.S., Gorham State Teachers College

F. ETHEL ROWLANDS
House Director, Andrews Hall

MARGARET SIMMONS
House Director, Robie Hall

DOROTHEA DUNTON
House Director, Woodward Hall
B.S., University of Maine

EMILY GORDON
House Manager, New Residence Hall

RUTH B. LEWIS
House Director, New Residence Hall

ELECTA M. BROWN
Bursar
Shaw's Business College

DOROTHY R. BERRY
Secretary
Shaw's Business College

VIRGINIA M. CHRISTENSEN
Secretary
Maine School of Commerce

GENICE R. DAVIS
Secretary
Gray's Business College

MADELINE H. WESCOTT
Secretary
Northeastern Business College

Faculty

WILLARD ARNOLD
Associate Professor of English (1954)*
A.B., DePauw University
Ed.M., Boston University
A.M., University of Iowa

GEORGE AYERS
Instructor of Science (1959)
B.A., University of Maine
M.A., Ohio State University

GEORGE BARKER
Instructor of Science (1955)
B.S., Gorham State Teachers College
M.S., Boston University
Graduate Study Harvard University

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Associate Instructor Campus School (1951)
B.S., Gorham State Teachers College
Graduate Study University of Maine

PAUL BARKER
Associate Professor of Social Sciences (1949)
B.A., Wittenburg College
M.S., Kansas State College
B.D., Colgate Rochester Divinity School
Graduate Study Berlin University, Tubinger University, Germany, Boston University

ALBERT BENNETT
Instructor of Mathematics (1961)
B.S., M.A., University of Maine

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Assistant Professor of Industrial Arts (1955)
B.S., Gorham State Teachers College
Ed.M., Pennsylvania State University
Graduate Study University of Connecticut

JERRY L. BOWDER
Assistant Professor of Music (1960)
A.B., University of Washington
M.M., Lewis & Clark College
Ph.D., Eastman School of Music

JAMES A. BOWMAN
Assistant Professor of Psychology (1949)
B.S., Gorham State Teachers College
M.Ed., Boston University
Graduate Study Boston University

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A.B., University of New Hampshire
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Graduate Study University of Glasgow, Harvard

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Associate Instructor Campus School (1950)
B.A., Valley City North Dakota Teachers College
Graduate Study University of Maine

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Instructor of Education, Assistant Director of Student Teaching (1953)
B.S., Gorham State Teachers College
Ed.M., University of Maine
Graduate Study University of Maine

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Assistant Professor, Director of Athletics (1953)
B.S., University of Alabama
M.S., University of Illinois
Graduate Study University of Maine, Springfield College

EDNA F. DICKEY
Assistant Professor of History, Dean of Women (1946)
B.A., M.A., University of New Hampshire
Graduate Study Boston University, Columbia University, Wesleyan University, Syracuse University

RALPH E. DUSO
Administrative Assistant (1948)
B.Ed., Keene Teachers College
M.A., New York University
Graduate Study New Haven Teachers College, University of Chicago

MARJORIE EAMES
Assistant Professor of Library Service, Head Librarian (1935)
B.S., Middlebury College
B.S.L.S., Pratt Institute Library School
A.M.L.S., University of Michigan
Graduate Study Columbia University, Boston University, University of Vermont

JOHN FALLS
Instructor of Industrial Arts (1961)
B.S., M.Ed., West Texas State College

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Professor of Mathematics (1959)
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B.S., Ed.M., Boston University
Graduate Study University of Maine

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B.S., Sargent College
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B.S., Salem State Teachers College
Ed.M., Boston University

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B.S., Gorham State Teachers College
Ed.M., Pennsylvania State University

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B.S., Gorham State Teachers College
Ed.M., University of New Hampshire
Graduate Study University of Maine, Boston University

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M. of Music, University of Michigan

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Instructor, Campus School (1960)
B.S., Ed.M., University of Maine

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Assistant Professor of Education (1930)
B.S., Defiance College
M.A., Columbia University
Graduate Study University of New Hampshire, Boston University

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Instructor Campus School, Principal (1946)
B.S., Gorham State Teachers College
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Graduate Study University of Maine

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Assistant Professor of Science (1946)
A.B., Colby College
Graduate Study Boston University, University of Maine

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Assistant Professor of Art (1960)
B.S., M.F.A., Columbia University

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B.S., Fitchburg State Teachers College
M.A., University of Minnesota
Ed.D., Pennsylvania State University

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A.B., A.M., Clark University
Graduate Study Clark University, University of Maine

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B.S., Iowa-Wesleyan College
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Graduate Study N.Y.U. Medical School

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Associate Instructor, Assistant Librarian (1945)
B.S., Gorham State Teachers College
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B.S., Gorham State Teachers College
M.A., University of Maryland

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B.S., Ed.M., Boston University
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B.S., Minnesota State Teachers College at Bemidji
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Associate Instructor Campus School (1957)
B.S., Farmington State Teachers College

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B.A., Boston University
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Ed.M., Boston University

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A.M., University of Maine
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M.A., Columbia University
On leave of absence 1960-61 National Science Foundation Fellowship at Ohio State University

ESTHER E. WOOD
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CAROLYN T. YOUNG
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