

1972

University of Maine at Portland-Gorham Catalog 1972-1973

University of Maine at Portland-Gorham

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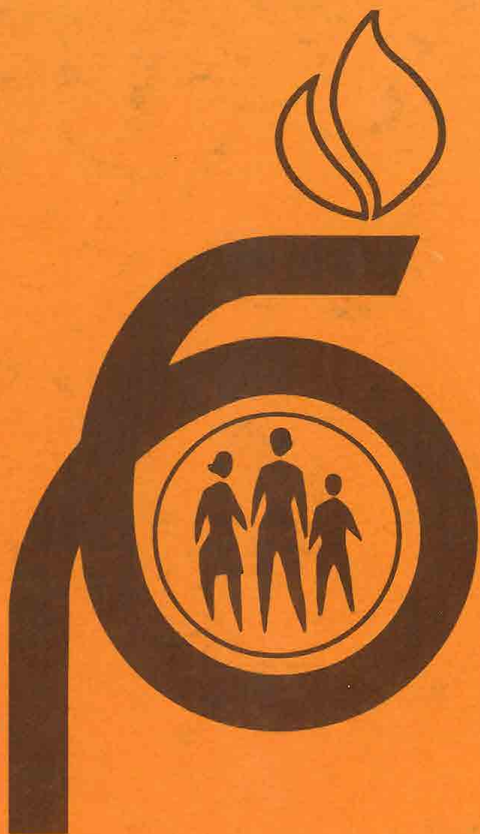
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University of Maine
at Portland — Gorham
Catalog 1972-1973



Ronald Mac Donnell

GENERAL REQUIREMENTS FOR ALL BACCALAUREATE DEGREE CANDIDATES AT UMPG

The General Education Requirement of UMPG consists of 30 semester-hours, 24 hours of which consists of four 6-hour groups of courses, each group either interdisciplinary or chosen from a different one of the four areas below, with course selections restricted to the prefix-code designations listed. The remaining six hours shall be selected from one, or a combination, of the four academic groupings or SCOGIS courses.

AREA 1: HUMANITIES

CLS (Classics)
CPEN (Comparative Literature)
ENG (English)

FRE (French)
GMN (German)
GRK (Greek)

LAT (Latin)
PLY (Philosophy)
SPN (Spanish)

AREA 2: FINE AND APPLIED ARTS

ARTH (Art History and Appreciation)
ARTS (Art Studio Courses)
DNCE (Dance)

MUS (Music)
MUSP (Music Performance)
TSP (Theatre-Speech)

AREA 3: SCIENCE AND MATHEMATICS

ASTR (Astronomy)
BIO (Biology)
CHEM (Chemistry)
ESCI (Earth Science)

GEOL (Geology)
GSCI (General Science)
MET (Meteorology)
MS (Mathematics)

OCN (Oceanography)
PHYS (Physics)
PSCI (Physical Science)

AREA 4: SOCIAL SCIENCES

ANY (Anthropology)
CJ (Criminal Justice)
ECON (Economics)

GEOG (Geography)
HIST (History)
POL (Political Science)

PSY (Psychology)
SOC (Sociology)
SWE (Social Welfare)

Department courses in the student's major area may not be applied toward fulfillment of the General Education Requirement. In addition, students in the School of Business Administration, the School of Education, or the School of Nursing may be further restricted in course selections from one or more of the four areas because of the specific requirements of the program in which they are enrolled.

A student who has matriculated before September 1971 may continue the program under the requirements in force at the time of matriculation or the student may elect to complete the General Education Requirements under the provisions stated above.

The Physical Education Requirement of UMPG requires every freshman and transfer undergraduate student of either sex to satisfy the University's requirement of one year of physical education, unless excused in writing by the dean of school or college on the basis of one or more of the exemption criteria printed on the inside back cover of this catalog.

UMPG SYSTEM OF COURSE CODING

- 000-099 No degree credit
- 10-99 Two digits indicate Associate Degree program
- 100-199 Introductory level
- 200-299 Intermediate level
- 300-399 Intermediate level
- 400-499 Senior level, others by permission
- 500-599 Graduate level
- 600-699 Professional graduate level, as in the School of Law

The information contained in this catalog covers rules, regulations, curricula, and programs as established by May 12, 1972, for the 1972-73 academic year. The University reserves the right to make changes at any time.

The University of Maine fully supports and complies with Title VI of the Civil Rights Act of 1964 and does not discriminate in any way in any of its policies on the basis of sex, race, color, or national origin.



The University of Maine at Portland-Gorham

Catalog for 1972-1973

Academic Calendar for 1972-73

University of Maine at Portland-Gorham

FALL SEMESTER 1972

September 6 First Day of Classes
November 23-24 Thanksgiving Recess
December 15 Last Day of Classes
December 18-23 Final Examinations for the Semester

SPRING SEMESTER 1973

January 15 First Day of Classes
March 26-31 Spring Recess
May 4 Last Day of Classes
May 7-12 Final Examinations for the Semester
May 13 Commencement (Tentative)

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THE UNIVERSITY OF MAINE

AT PORTLAND-GORHAM

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(Listing as established on or before June 14, 1972)

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Academic Administrative Structure of Undergraduate College and Schools

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| ASSOCIATE DEAN | William L. Whiting |
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| CHAIRMAN, BIOLOGICAL SCIENCES DEPARTMENT | Haig H. Najarian |
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| CHAIRMAN, HISTORY DEPARTMENT | Phillip A. Cole |
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| CHAIRMAN, MUSIC DEPARTMENT | Harold F. Brown |
| CHAIRMAN, PHILOSOPHY DEPARTMENT | William J. Gavin |
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| CHAIRMAN, SOCIAL WELFARE DEPARTMENT | John M. Romanyszyn |
| CHAIRMAN, SOCIOLOGY DEPARTMENT | S. Henry Monsen |
| CHAIRMAN, THEATRE-SPEECH DEPARTMENT | Minor R. Rootes |

SCHOOL OF BUSINESS AND ECONOMICS

| | |
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| CHAIRMAN, BACCALAUREATE PROGRAM IN BUSINESS ADMINISTRATION | Robert W. Findlay |
| CHAIRMAN, ASSOCIATE PROGRAM IN BUSINESS ADMINISTRATION | Richard L. McKeil |
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SCHOOL OF EDUCATION

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SCHOOL OF GENERAL AND INTERDISCIPLINARY STUDIES

| | |
|----------------|----------------|
| DIRECTOR | Neville Wilson |
|----------------|----------------|

SCHOOL OF NURSING

| | |
|--|--------------------|
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| ASSOCIATE DEAN | |
| ASSISTANT DEAN | Anna B. Ivanisin |
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| CHAIRMAN, MEDICAL SURGICAL NURSING | Jeanne G. Talbot |
| CHAIRMAN, ADVANCED MEDICAL-SURGICAL NURSING | Judith T. Stone |

Academic Administrative Structure of Graduate and Graduate Professional Schools

GRADUATE SCHOOL

| | |
|----------------------|-------------------|
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| ASSISTANT DEAN | Elizabeth F. Kerr |

SCHOOL OF LAW

| | |
|---|---------------------|
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| ASSISTANT DEAN | William F. Julavits |
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| DIRECTOR, CLINICAL PRACTICE PROGRAM | Judy R. Potter |
| LIBRARIAN, SCHOOL OF LAW | Donald L. Garbrecht |

THE UNIVERSITY OF MAINE AT PORTLAND-GORHAM

The University of Maine at Portland-Gorham is a regional center of the University of Maine, offering a diversity of courses leading to bachelors' and masters' degrees in a variety of subject areas. It is a consolidation of the former University of Maine in Portland and the Gorham State College of the University of Maine and comprises two campuses, both on State Route 25 which crosses the Maine Turnpike one block south of Turnpike Exit 8. The Portland Campus is three miles east of Exit 8, and the Gorham Campus is seven miles to the west of that exit.

Bus transportation between the two campuses is provided for students, Monday through Friday throughout the academic year whenever the regularly scheduled day classes are in session. Parking lots on both campuses are available for students commuting in their own automobiles. Dormitory facilities are provided only at the Gorham Campus, but dormitory students who pay for board and room at the Gorham Campus may obtain lunch without extra charge at the Portland Campus on days when their class schedules require them to be at the Portland Campus at lunch time.

More than 3,500 full-time undergraduate students are enrolled at the University of Maine at Portland-Gorham. In addition to these full-time undergraduates, a number of full-time graduate students are enrolled at the University of Maine School of Law, a unit of the University of Maine at Portland-Gorham.

In addition to the full-time students, approximately 6,000 part-time students are enrolled in late-afternoon, evening, and Saturday courses offered by the Continuing Education Division of the University of Maine at Portland-Gorham. About 500 CED courses are offered during the academic year, making it possible for part-time students to earn undergraduate degrees in business administration, education, and liberal arts. Graduate programs are available in business, engineering, library service, and education. Most of the course offerings are given at either the Portland or Gorham campus, but some in-service training courses are offered in various towns throughout Cumberland and York counties.

The Continuing Education Division is also responsible for the Summer Session, meeting the needs of an additional 3,000 students taking 280 or more day and evening summer courses. Many summer session courses are offered in three-week units of intensive study, some starting in June, some in July, and some in August. Other daytime summer courses are offered in six-week sessions, and a few are scheduled in five-week or two-week sessions. Summer evening courses are normally offered in an eight-week session, with classes meeting two evenings a week.

Although Continuing Education courses are open to all enrollees at UMPG, students enrolled in a full-time day degree-candidate program do not normally take the evening courses when their schedule permits them to take courses of an equivalent nature offered during the day.

In an effort to relate the University effectively with the surrounding Greater Portland community, both the Continuing Education Division and the Cooperative Extension Service offer various types of programs outside the scope of the normal undergraduate or graduate university courses. A few of these programs are listed in a section beginning on page 168.

Admission -- Undergraduate Studies

The approval of candidates seeking admission to the University of Maine at Portland-Gorham is on a selective basis. Candidates must be graduates of approved secondary schools or hold the high school equivalency diploma. The University seeks candidates whose preparatory program, scholastic achievement, interest, motivation, and personal recommendations are indicative of success with University studies. The following is a list of Schools and Colleges, with academic majors to which students may apply.

COLLEGE OF LIBERAL ARTS

The College of Liberal Arts currently offers four-year programs leading to the degree of Bachelor of Arts, with the following majors:

| | | |
|-----------------------------------|-------------|-------------------|
| Art | French | Political Science |
| Biology | History | Psychology |
| Criminal Justice (B.S. degree) | Mathematics | Sociology |
| Economics | Music | Social Welfare |
| English | Philosophy | Theatre-Speech |

SCHOOL OF BUSINESS AND ECONOMICS

In addition to its four-year programs, the School of Business and Economics offers a two-year program leading to the degree of Associate of Science in Business Administration.

The School of Business Administration currently offers four-year programs leading to the degree of Bachelor of Science, with the following majors:

| | | |
|------------|-------------------------|-----------|
| Accounting | Business Administration | Economics |
|------------|-------------------------|-----------|

SCHOOL OF EDUCATION

The School of Education currently offers four-year programs leading to the degree of **Bachelor of Science**.

Secondary Education majors include:

| | | |
|--------------------|-------------|-----------------|
| Biological Science | French | Sciences Area |
| Economics | History | Social Sciences |
| English | Mathematics | Theatre-Speech |

Other Programs of the School of Education include:

| | |
|--------------------------|---------------------------|
| Elementary Education | Industrial Arts Education |
| Kindergarten-Primary Ed. | Industrial-Vocational Ed. |
| Art Education | Industrial Technology |
| Music Education | (non-teaching program) |

SCHOOL OF NURSING

The School of Nursing offers a program of four years and one summer session which leads to the degree of **Bachelor of Science**, with a major in nursing.

NEW ENGLAND REGIONAL PROGRAM

In cooperation with the New England Board of Higher Education the University of Maine at Portland-Gorham offers undergraduate programs of study to qualified candidates from the New England states at in-state tuition rates. The following fields of study are currently available in the New England Regional Students Program.

PROGRAM

OPEN TO STUDENTS FROM:

Two-Year Program

| | |
|--|------------------------------------|
| Two-Year Business Administration (Associate Degree Program) | Connecticut, Rhode Island, Vermont |
|--|------------------------------------|

Four-Year Program

| | |
|---------------------------------|---------------------------------------|
| Criminal Justice | Connecticut, Massachusetts, R.I. |
| Industrial Arts | Vermont |
| Nursing | Vermont |
| Social Welfare | Connecticut, Massachusetts, R.I., Vt. |
| Theatre-Speech | Vermont |
| Vocational-Industrial Education | Vermont |

SECONDARY SCHOOL PREPARATION

Requirements for admission to the University are established by each school and college within the University. The requirements indicated below are in keeping with the degree programs currently established.

COLLEGE OF LIBERAL ARTS

| | |
|---------------------------------|-------------|
| English | 4 Units |
| *Mathematics | 3 Units |
| **Sciences | 2 Lab Units |
| History/Social Science | 2 Units |
| ***Foreign Language | 2 Units |
| *Mathematics Majors | 4 Units |
| **Biology and Premedical Majors | 3 Lab Units |
| ***Foreign Language Majors | 3 Units |

SCHOOL OF BUSINESS AND ECONOMICS

Four-Year Baccalaureate Program

| | |
|----------|---------|
| English | 4 Units |
| Algebra | 2 Units |
| Geometry | 1 Unit |
| Elective | 9 Units |

Two-Year Associate in Business Administration

Candidates applying to this program of study may have either a college preparatory or a commercial business background. It should be noted that candidates with commercial business backgrounds must have records of strong academic achievement to be considered. English and mathematics are the basic prerequisites for this program. All other work in high school would be elective course study.

SCHOOL OF EDUCATION

| | |
|--|---|
| English | 4 Units |
| *Mathematics | 3 Units (Recommended 2 Algebra, 1 Geometry) |
| **Sciences | 2 Lab Units |
| History/Social Science | 2 Units |
| ***Foreign Language | Optional |
| *Mathematics majors in Secondary Education 4 Units | |
| **Biology and Science Area majors in Secondary Education 3 Lab Units | |
| ***Foreign Language majors in Secondary Education 3 Units | |

SCHOOL OF NURSING

| | |
|------------------------|-------------------------------------|
| English | 4 Units |
| Mathematics | 3 Units (Algebra I, II, Geometry I) |
| Sciences | 2 Lab Units (Biology, Chemistry) |
| History/Social Science | 1 Unit |
| Foreign Language | Optional |

COLLEGE ENTRANCE EXAMINATION BOARD AND AMERICAN COLLEGE TESTING

1. The University of Maine at Portland-Gorham Admissions Office will accept either Scholastic Aptitude Test & Achievement Test scores, or American College Test scores for candidates seeking admission. All candidates applying for admission must submit test scores from either the Scholastic Aptitude Test & Achievement Test battery or the American College Testing program unless arrangements for testing to be waived have been approved by the Director of Admissions.

2. Applicants should work with the high school guidance office in registering for and counseling in the preparation for the required testing.

3. Candidates submitting Scholastic Aptitude Test & Achievement Test results are required to submit **three Achievement Scores** in support of their application. One test should be either the English Composition Achievement or

the Literature Achievement. When possible, the second test should relate to the student's field of study, such as history, mathematics, foreign language, a science, etc. A third achievement test, covering some other subject area of the student's choice, must also be submitted.

Students applying to the Associate Degree Program in Business Administration are not required to take the Achievement tests.

4. High School juniors are encouraged to take achievement tests in non-continuing subjects at either the May or July test dates. Guidance Counselors should be consulted for details.

REPORTING TEST RESULTS

Candidates are required to submit all test results **no later than February of the senior year**. Scores must be submitted to the University Admissions Office from the Educational Testing Service, Box 592, Princeton, New Jersey 08540, Box 1025, Berkeley, California 94701, or The American College Testing Program, P.O. Box 451, Iowa City, Iowa 52240.

Dates for the Scholastic Aptitude Test and Achievement Tests 1972-73

| | |
|-----------------------------|--------------------------------------|
| November 4, 1972 (SAT only) | April 7, 1973 (SAT only) |
| December 2, 1972 | May 5, 1973 (Achievement Tests only) |
| January 13, 1973 | July 14, 1973 |
| March 3, 1973 | |

Dates for the American College Testing Program 1972-73

| | |
|------------------|-------------------|
| October 21, 1972 | February 24, 1973 |
| December 9, 1972 | April 28, 1973 |
| | July 21, 1973 |

APPLICATION PROCEDURE

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

2. Select the program which promises fulfillment of personal ideals, interests and abilities. Be ready to take specific entrance examinations upon request of the Art, Music, or Industrial Arts Departments if you are applying to one of these programs.

3. Mail the application and application fee of \$10.00 (non-refundable) to the Director of Admissions, University of Maine at Portland-Gorham, 96 Falmouth Street, Portland, Maine 04103.

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

ADMISSION PROCEDURES

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

2. Upon acceptance, the student will be required to make appropriate deposits. A deposit of \$50.00 will be required of each residence hall applicant. A

deposit of \$25.00 is required of all commuting students. Refund requests will be honored by the University to June 1 for September enrollment and to January 1 for the spring semester if the request is received in writing to the Director of Admissions.

3. Admission to the University is not final until the student has satisfactorily completed all Admissions Office requirements.

4. Physical and mental health are basic considerations in admitting an applicant to the University. The Admissions Office reserves the right to refuse admission to any candidate who is not fully qualified to meet these University standards of personal fitness.

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

6. Interview: With the exception of candidates applying to the Art, Music, and Industrial Arts programs, interviews are optional. If students desire an interview, they should arrange for one with the Admissions Office. Students are encouraged to visit the University and acquaint themselves with its facilities.

DEPARTMENTAL REQUIREMENTS FOR ADMISSION

ART Each applicant for admission to either Art Program at the University of Maine at Portland-Gorham is requested to submit to the Art Department at the Gorham campus a portfolio of original art work. This portfolio should consist of 20 works in varying media, including one life-size self-portrait drawn from life in any media of the student's choice, together with a selection which indicates the applicant's current interests and abilities. Prints, drawings, paintings, posters, photographs, films, and slides may be included. Any sculpture or three-dimensional works may be represented by photographs. Students will be notified by the Art Department of the appropriate procedures to follow and the date by which all portfolios must be submitted.

MUSIC All candidates for the Music Major 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. Students will be notified by the Music Department of the appropriate procedures to follow.

INDUSTRIAL ARTS EDUCATION Applicants for the Industrial Arts Education program are required to take special aptitude tests at the University; they should have had a minimum of one unit in either industrial arts or drafting (graphics) in high school. Students will be notified by the Industrial Arts Department of the appropriate procedures to follow.

FOREIGN STUDENTS

Candidates applying for degree status at the University are required to submit official school and college transcripts to the Director of Admissions. Candidates from foreign countries whose native language is **not English** are required to submit test results of the TOEFL examination (Test of English as a

Foreign Language). In addition, candidates must submit test results of the Scholastic Aptitude Test (SAT).

Candidates applying who have completed at least one year of University studies at an English-speaking University with acceptable grades are not required to take the SAT examination. They must, however, take the TOEFL examination if English is not the native language.

Financial assistance for foreign students applying to UMPG is extremely limited. It is, therefore, regrettable that the University cannot encourage greater numbers of foreign applications. Foreign students who have met academic requirements and require no financial assistance from the University may expect more favorable consideration. Further details are given in the "Foreign Students Handbook" available from the Student Affairs office.

ADMISSION TO ADVANCED STANDING -- TRANSFER STUDENTS

Admission to the University of Maine at Portland-Gorham as a transfer student is on a selective basis and is controlled by classroom, dormitory, and quota space. A student who has attended any institution of learning beyond high school is classified as a transfer student even though the student may in the final analysis not transfer in credits. A student accepted for admission from an accredited institution will receive advanced standing credit when the work is "C" grade or better in courses corresponding to those offered by the University of Maine at Portland-Gorham and if applicable to the student's program of study.

Students applying for admission from any institution which is not accredited by the New England Association of Schools and Colleges or any other regional accrediting agency must have a 2.75 average (on a 4.0 scale) to be considered for advanced standing credit. The Admissions Office, in conjunction with the Dean of a particular School or College within the University may defer for one semester acceptance of credit from a non-accredited institution.

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

Students seeking advanced standing must submit, in addition to the application, a high school transcript, Scholastic Aptitude Test results, and a character recommendation from the Dean of Students Office of the college or colleges previously attended.

CREDIT BY EXAMINATION

Advanced Placement

It shall be the policy of the University of Maine at Portland-Gorham to grant credit for the introductory course in a subject field to an enrolled student who presents evidence of competency in that field by completing the appropriate Advanced Placement Examination of the College Entrance Examination Board with a score of either four (well qualified) or five (very well qualified). A score of three will be examined for credit on an individual basis by the department concerned.

In addition, the School of Nursing offers credit-by-examination in certain courses of the nursing major. Interested candidates should discuss their eligibility for taking these examinations with the Dean, School of Nursing.

College Level Examination Program (CLEP)

The schools and colleges at the University of Maine at Portland-Gorham will grant credit for the general College Level Examination Program (CLEP) examinations as follows:

| <i>Title of Examination</i> | <i>Credit For</i> | <i>Credit Hours</i> |
|-----------------------------|-------------------|---------------------|
| English | ENG 100 | 3 |
| Humanities | General Education | 6 |
| Social Science | General Education | 6 |
| Mathematics | General Education | 6 |
| Science | General Education | 6 |
| | | <hr/> 0-27 |

A score of 540 or better will be necessary to receive credit.

The five general examinations are designed and intended primarily for incoming freshmen rather than for typical transfer students.

Credit for CLEP subject examinations that have been reviewed and approved by the respective UMPG departments may also be given for specific courses, as determined by the departments during the academic year 1972-73.

FINANCIAL AID

Students seeking admission to the University of Maine at Portland-Gorham who anticipate requesting financial aid must apply through the College Scholarship Service Program, Box 176, Princeton, New Jersey 08540. The Parents' Confidential Statement may be secured through the local high school guidance office or by writing to the Financial Aid Office at the University of Maine at Portland-Gorham, College Avenue, Gorham, Maine 04038.

Married students applying for financial assistance must fill out The Student's Confidential Statement and return it to the College Scholarship Service, Box 1501, Berkeley, California 94701. This form is available in the Financial Aid office of the University of Maine at Portland-Gorham, College Avenue, Gorham, Maine 04038.

READMISSION

Degree students attending days who withdraw from all course work at the University of Maine at Portland-Gorham during any semester must apply for readmission through the undergraduate Admissions Office, Room 128, Payson Smith Hall, 96 Falmouth Street, Portland, Maine. Applications must be received by December 1 for spring readmission and July 1 for September readmission.

SPECIAL STUDENTS (Non-Degree)

The Admissions Office does not admit special students. At the present time the undergraduate Admissions Office works with full-time degree candidates attending days and degree candidates attending through the Continuing Education Division. Special students are referred to the appropriate dean's office for assistance in registering as non-degree students.

Financial Information

STUDENT EXPENSES: Academic Year of 1972-73

The financial requirements of the University, changing costs, state and legislative action, and other matters may require an adjustment of these charges and expenses. The University reserves the right to make adjustments to the estimated charges and expenses as may from time to time be necessary in the opinion of the Board of Trustees up to the date of Final Registration for a given academic term. The applicant acknowledges this reservation by the submission of an application for admission or by registration.

ONE-TIME FEES

| | |
|---|----------|
| <i>Application Fee</i> — A one-time fee which must accompany application | \$ 10.00 |
| <i>Matriculation Fee</i> — A one-time fee required of each student registering for the first time as a candidate for a degree. It must be paid as part of the first semester bill | 15.00 |

ANNUAL EXPENSES: FULL-TIME UNDERGRADUATE STUDENTS

| | |
|--|--------|
| <i>Undergraduate Tuition for a Resident of Maine</i> | 450.00 |
| (Tuition for Non-Residents, as defined below, is \$1400) | |
| <i>Student Activity Fee</i> (required of all full-time undergraduates) | 16.00 |
| <i>Books and Supplies</i> — Textbooks, personal laboratory equipment, etc., are not furnished by the University. Annual costs vary from \$100 to | 200.00 |
| <i>Personal Expenses</i> — Over and above food and lodging, recent estimates indicate an annual average of at least | 350.00 |
| <i>Voluntary Health Insurance</i> — Optional but strongly recommended. Estimated cost | 30.00 |

ADDED EXPENSES FOR DORMITORY RESIDENTS

| | |
|---|---------|
| <i>Board and Room for Dormitory Residents</i> (per academic year) | 1080.00 |
|---|---------|

Note: In the event that special dormitory guards are established, the interested students will be charged a fee adequate to cover the cost of these guards.

OPTIONAL MEALS FOR OFF-CAMPUS RESIDENTS: \$540 per academic year.

LATE REGISTRATION

A *Late-Registration Fee of \$10.00* is charged a student who registers after the prescribed day of registration. *Students must register each semester, one semester at a time.*

TUITION FOR OTHER CLASSIFICATIONS OF STUDENTS

Registration Fee — A registration fee of \$5 per semester is charged each part-time daytime student, each Continuing Education student, and each Summer Session student.

Continuing Education Division and Summer Session — Summer Session students are charged \$25 per semester hour for courses carrying degree credit. Continuing Education students are charged \$25 per semester hour for courses carrying degree credit, up to a maximum of \$225 per semester. The tuition, fees, and related maximums set forth herein do not apply to non-degree credit work. CED bulletins announce the fees for their non-degree courses.

Other Part-time Students — Registration fee of \$5 per semester, plus tuition for residents of Maine of \$25 per semester-hour up to a maximum of \$225 per semester, or tuition for non-residents of Maine of \$70 per semester-hour up to a maximum of \$700 per semester.

School of Law — Tuition for residents of Maine and non-residents covered by the New England Pact is \$550 per year; tuition for other non-residents is \$1650 per year. The \$10 Application Fee and \$15 Matriculation Fee are also charged. For other expenses, see the School of Law catalog.

DEPOSITS

A deposit of \$25 is due when the applicant is notified of acceptance by the Director of Admissions. If a dormitory room is requested, an additional \$25 is due. These deposits will be applied toward the student's account when the student registers. (They should not be confused with the matriculation fee of \$15, which is a non-refundable charge.)

The deposits are forfeited in case an applicant withdraws after June 1. If a freshman, transfer, or readmission applicant notifies the Director of Admissions of withdrawal prior to June 1, the deposits will be refunded.

Upperclassmen desiring to live in a dormitory must pay a room deposit of \$25 during the spring in order to assure that rooms will be reserved for them in the fall. This deposit will be applied to the fall semester bill. If it is found that dormitory accommodations are not desired, the deposit will be refunded if the Housing Office is notified by June 1. If notice is not given by that date, the deposit will be forfeited.

PAYMENT OF BILLS:

All University bills, including those for room and board in University buildings, are due and payable on or before August 15 for the Fall Semester and on or before January 8, 1973, for the Spring Semester. Bills may be paid at the business offices at either campus by mail or in person. Checks should be made payable to the University of Maine.

UNIFORM REFUND POLICY

I. Educational and General Programs (Other than Summer Session)

1. **Tuition.** Tuition may be refunded in accordance with the scale and provisions set forth below for students withdrawing during the first nine weeks of a term.

a. **Scale.** Attendance period is counted from first day of class and includes weekends and holidays. The refund will be reckoned from the date on which the student notifies the Registrar.

| | <i>Refund Percentage</i> |
|-------------------------|------------------------------|
| 1st and 2nd weeks | 80% |
| 3rd and 4th weeks | 60% |
| 5th and 6th weeks | 40% |
| 7th, 8th, and 9th weeks | 20% |
| Over 9 weeks | No Refund |

b. **Provisions.**

- (1) A student enrolled in a full-time program who drops or adds a course and continues to be in a full-time program will have no financial adjustments of tuition.
- (2) In no case will tuition be reduced or refunded because of voluntary absence from classes.
- (3) Tuition adjustments attributable to involuntary absence, for example, extended illness or military service, will be processed by the respective campus of the University of Maine on a case-by-case basis.

2. **Fees.** University fees are not refunded.

II. Educational and General Programs (Summer Session)

1. **Tuition.** Tuition may be refunded in accordance with the scale and provisions set forth below for students withdrawing.

a. **Scale.** Attendance period is counted from first day of class and includes weekends and holidays. The refund will be reckoned from the date on which the student notifies the Registrar.

| | <i>Refund Percentage</i> |
|--|------------------------------|
| (1) Six week Courses | |
| 1st week | 75% |
| 2nd week | 50% |
| 3rd week | 25% |
| After 3rd week | -0- |
| (2) Three week Courses | |
| 1st week | 50% |
| After 1st week | -0- |
| b. Provisions. | |
| (1) In no case will tuition be reduced or refunded because of voluntary absence from classes. | |
| (2) Tuition adjustments attributable to involuntary absence, for example, extended illness or military service, will be processed by the respective campus of the University of Maine on a case-by-case basis. | |

2. **Fees.** University fees are not refunded.

III. **Dining and Residence Activities.** The board and room charges will be refunded in accordance with the following wherein the student is withdrawing from the institution:

1. **Scale**

a. **Board.** Board charges for a student leaving the residence halls or withdrawing from the University will be at the full daily rate through the date of clearance and for one-half the daily rate for the remaining full days.

b. **Room**

(1) **Normal Academic Year (Fall & Spring Semesters)**

| | <i>Percentage Refund</i> |
|-------------------------|------------------------------|
| 1st and 2nd weeks | 80% |
| 3rd and 4th weeks | 60% |
| 5th and 6th weeks | 40% |
| 7th, 8th, and 9th weeks | 20% |
| Over 9 weeks | No Refund |

(2) **Summer Session**

| | <i>Percentage Refund</i> |
|-------------------------------|------------------------------|
| (a) Six-week Courses | |
| 1st week | 75% |
| 2nd week | 50% |
| 3rd week | 25% |
| After 3rd week | -0- |
| (b) Three-week Courses | |
| 1st week | 50% |
| After 1st week | -0- |

2. **Exceptions.** Exceptions will be made only in cases of illness, extreme hardship, or when an occupant leaves for the convenience of the University. The charges in these cases will be determined by the University according to the circumstances of each case.

RULES GOVERNING RESIDENCE:

A student is classified as a resident or a non-resident for tuition purposes at the time of admission to the University. The decision, made by the appropriate campus Business Manager, is based upon information furnished by the student's application and any other relevant information. In general, to be considered eligible to register as a resident, a student must have established a bona fide year-round residence in the State of Maine with the intention of continued residency. Members of the Armed Forces and their dependents are normally granted in-state tuition rates during the period when they are on active duty within the State of Maine.

Subject to the provisions of the preceding paragraph, the residence of an unmarried minor follows that of the parents or legally appointed guardian. The bona fide year-round residence of the father, if living, otherwise that of the mother, is the residence of such a minor; but if the father and the mother have separate places of residence, the minor takes the residence of the parent with whom the minor lives or to whom the minor has been assigned by court order. If neither of the parents is living, the unmarried minor takes the residence of the legally appointed guardian.

Subject to the provisions of the first paragraph above, an adult student, defined for purposes of these rules as one who is either married or 18 years of age or older, will be classified as a resident of Maine if the parents are residents of Maine and the student has not acquired residence in another state.

The residence of a wife follows that of her husband; however, a woman student who already has a resident status by reason of the residence of her parents, or by reason of her own residence where she is at least 18 years old, may continue as a resident student although she marries a non-resident.

To change resident status, the following procedures are to be followed:

- A. Submit "Request for Change of Residence Status" form to the Business Manager. If the Business Manager's decision is considered incorrect:
- B. The student may appeal the Business Manager's decision in the following order:
 1. Vice President for Finance and Administration (where applicable)
 2. President
 3. Vice Chancellor for Business and Financial Affairs, University of Maine, Chancellor's Office (This decision must be considered final.)

In the event that the campus Business Manager possesses facts or information indicating a change of status from resident to non-resident, the student shall be informed in writing of the change of status and will be given an opportunity to present facts in opposition to the change. The student may appeal the Business Manager's decision as set forth in the preceding paragraph.

No applications will be considered for changes after September 1 for the fall semester and January 15 for the spring semester.

All changes approved during a semester will be effective at the beginning of the next semester; none are retroactive.

In all cases, the University reserves the right to make the final decision as to resident status for tuition purposes.

STUDENT LIFE, ACTIVITIES, AND SERVICES

STUDENT LIFE

The University of Maine at Portland-Gorham supplements its academic curriculum by offering students a wide variety of services and activities ancillary to normal classroom educational experiences. Philosophically, the Student Affairs Division seeks to assist students toward educational fulfillment through (1) services to aid with personal, social, financial and vocational needs and (2) co-curricular experiences in the form of programs and assistance to student organizations to help maximize individual student development.

The unique physical arrangement of the University of Maine at Portland-Gorham allows students to sample suburban and urban environments on both a predominantly residential and a primarily commuter campus. Students are encouraged to take an active role in the social and professional programs offered, as well as other extra-curricular activities including campus governance.

STUDENT ACTIVITIES

Extra-curricular activities form an important part of the educational experience of students on every university campus. The University of Maine at Portland-Gorham encourages students to take advantage of the many opportunities to broaden intellectual horizons and to work together with other students either on university committees or through participation in campus clubs or other organizations. Not only is there value in social learning derived from participation, but many of the recognized functions of student organizations relate to the curriculum and classroom experiences of the students. Typical of the many extra-curricular activities and organizations available to students are the following:

Student Organizations

There are over sixty student organizations on the Portland-Gorham campuses which reflect a wide spectrum of honoraries, professional associations, university governance committees, and social or religious organizations. Such organizations include:

Academic and Professional Organizations — Business Club, Council of Nursing Students, Drama Club, Graphic Arts Club, Industrial Arts Professional Organization, International Relations Club, Le Cercle Français, Psychology Club, Student Art Gallery Association, Student Education Association.

Musical Organizations — A Cappella Choir, Concert Band, Gorham Chorale.

Recreational Organizations — Football Club, Outing Club, Women's Bowling and Volleyball, Sailing Club.

Religious Organizations — Inter-varsity Christian Fellowship, Newman Club, Religious Affairs Club, Bahai Club.

Social and Service Organizations — Environmental Improvement Club, Modern Dance Club, Portland-Gorham Film Society.

Special Interest Organizations — Karate Club, Orientation Committee, Young Democrats, Young Republicans, Varsity Club.

Student Publications — The *Cat Mousam* is a journal of creative art and literature which offers the entire campus community a forum for creative expression and presents the reader with a panorama of campus artistic and writing endeavors. The *University Free Press*, the weekly student newspaper, is staffed and published by students interested in various aspects of journalism. A yearbook, the title of which may vary from year to year, is also published annually by the students.

Honor Societies — **Fidus Achates** and **Owls and Eagles** are sophomore service honoraries which assist the campus in many facets. **Top-of-the-Tree** is an honorary drama organization. **Epsilon Pi Tau** is an international honor fraternity for industrial arts and industrial vocational education. **Centaurs/Pegasus** is a men's and women's senior honorary society.

Fraternities and Sororities — The Greek system offers an additional aspect of development in social living and communication through objectives of group unity and close friendship. The Greek letter organizations on the Portland-Gorham campuses are **Delta Chi**, **Phi Mu Delta**, **Tau Epsilon Phi**, and **Tau Kappa Epsilon** fraternities, and **Alpha Xi Delta**, **Delta Zeta**, **Kappa Delta Epsilon**, and **Phi Mu** sororities.

The **Inter Fraternity** and **Inter-Sorority Councils**, governing units of fraternities and sororities respectively, are intended to insure the continuity of high ideals expressed by all fraternities and sororities through self-government.

Resident Student Government is the governing and coordinating group for the residence halls. Activities of individual hall councils are often aided and advised by **RSG**.

Volunteer Services

Interesting volunteer service projects to assist various aspects of the University, as well as local communities, are coordinated by the Division of Student Affairs. These projects offer students an opportunity to become involved in areas of need in the Portland-Gorham communities. Typical projects include the recording of "talking books" for blind students, work with children at the Cerebral Palsy Center, and activities with children at the Pineland State Hospital.

Student Union and Student Center

A Student Union at Nos. 92 and 94 Bedford Street in Portland and a Student Center at Gorham provide facilities for out-of-class activities or for leisure moments on campus, including lounge space, game rooms, study areas, snack facilities, and meeting rooms where organizations are able to schedule events.

STUDENT SERVICES

Student Health Services

To provide student health services, the Portland campus maintains a Health Center open 8:00 A.M. to 4:00 P.M., Monday through Friday, with a registered nurse in attendance who is available for first aid, consultation, and temporary emergency care. A physician is available from 11:00 A.M. to 12:30 P.M. Monday through Friday, for consultation.

On the Gorham campus, an Infirmary is maintained and open 24 hours a day, 7 days a week, with four full-time registered nurses who are also available for consultation, emergency, and in-patient care. A physician is in attendance Monday through Friday from 1:00 P.M. to 2:30 P.M.

Health and Accident Insurance is available at a nominal fee.

Placement Operation

Career Planning and Placement offices offer continuous assistance to undergraduates, graduates, and alumni. The Portland office offers services in the areas of business and industry, nursing, and education. The Gorham

office specializes in educational and teacher placement. Considered as a whole, the placement program

- encourages early assessment by the individual of personal capabilities as they relate to vocational objectives;
- provides information on the broad range of careers available;
- offers counsel on specific vocational opportunities;
- assists the student in obtaining part-time summer employment, as well as full-time career employment;
- aids the individual in evaluating graduate study as an element of professional preparation;
- acquaints candidates with the recruiting process to the end that they will make a most effective presentation of their qualifications.

The Placement Office on each campus keeps a complete, up-to-date set of credentials on all students who register with that office. The office sets up campus interviews, as well as duplicating credentials for recruiters. Credentials are also forwarded to graduate schools, government agencies and prospective employers. Students seeking information about placement services are welcome to contact the Placement Office at either campus.

Counseling and Testing Center

Students experiencing educational, vocational, emotional, and other personal concerns are offered individual attention by the University counseling specialists. Students may make appointments through the Student Affairs Offices at both campuses, or directly through the Counseling Office in Portland. This service is free of charge.

Although counseling is a major responsibility of the Counseling and Testing Center, students are assisted in whatever personal service they need. For example, they may receive specialized testing through interest inventories, personal preference instruments, aptitude tests, or tests required for admission to graduate schools. These are all conducted at the Counseling and Testing Center.

Foreign Student Advisor

The University maintains an office providing information to assist all students who are not citizens of the United States. The Foreign Student Advisor aids these students in interpreting the administrative regulations of the University; the local, state, and federal laws; the locally accepted standards of conduct; and the expectations and reactions of other persons encountered in the University community.

Veterans' Services

The University provides the veteran with supportive services through both the Student Affairs Division and the Registrar's Office. Professional advice concerning programs, laws, regulations, and educational benefits can be secured from the Student Affairs division, while the Registrar's Office provides enrollment certification in order that the veteran may receive all educational benefits.

THE ALUMNI OFFICE OF UMPG

The recent appointment of an Alumni Director for the University of Maine at Portland-Gorham is intended to insure the development of an organization in which all alumni can participate. Groups with particular loyalties to any part of the University may expect assistance in carrying on their activities.

It is expected that a university-wide association may be formed to encompass both the organizations already in existence and those which will take

shape in the future. The Gorham Alumni Association, with over 6,500 members and a history of ninety years, now promotes UMPG with special emphasis on the campus "on the Hill." The Tri-Alumni Association, smaller in membership because of Portland's more recent establishment, supports that urban campus in the interest of the University. With increasing numbers of students commuting between the two campuses for classes and other activities, the development of a body of alumni identified with both campuses and possessing loyalty to the unified institution is foreseen. To enable any graduate to continue whatever relationship is felt towards any part of the institution, or to the institution as a whole, is the purpose of the Alumni Office of the University of Maine at Portland-Gorham.

Student Housing

The Gorham campus provides living accommodations for approximately 1,000 men and women students. Both Portland and Gorham Housing Offices are located in the Student Affairs Department to assist students who are either living on or off-campus. Both offices also maintain an up-to-date file of rooms, apartments, and homes which are for rent in the community. Students wishing housing on the Gorham Campus should file an application with the Housing Office.

Before a room is assigned to a student in a residence hall, the student will be required to sign a room contract for the academic year or the remaining part thereof, depending upon the date of admission to the hall. All residence-hall students must also contract for meals.

Students living off campus may contract for all their meals at the cafeteria at the Standard rate, listed under "Financial Information," or they may make their own arrangements. Individual meals or snacks may be purchased at either the Gorham cafeteria or the Portland cafeteria during the hours when these cafeterias are open to commuting students.

INTERCOLLEGIATE ATHLETICS FOR MEN

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

As one of the members of the New England State College Athletic Conference, the University of Maine at Portland-Gorham competes successfully in varsity cross country, soccer, sailing, fall golf, basketball, skiing, baseball, tennis, golf, track and field. A freshman basketball schedule completes the present program.

As a member of the National Association of Intercollegiate Athletics (District 32), the college has participated in district play-offs in soccer, basketball, cross country, golf, and tennis. The University of Maine at Portland-Gorham is also a member of the National Collegiate Athletic Association, the Eastern College Athletic Conference, and the New England College Athletic Conference. The Warren Hill Gymnasium on the Gorham campus and the new physical education building on the Portland campus are two of the best designed and adequately equipped sports facilities in the area.

INTERCOLLEGIATE ATHLETICS FOR WOMEN

To provide opportunities for the more highly skilled students, there are varsity and, in some sports, junior varsity teams in field hockey, archery, tennis, volleyball, badminton, basketball, skiing, gymnastics, bowling, and lacrosse. Operating under the Division for Girls and Womens Sports guidelines and the policies of the Commission on Intercollegiate Athletics for Women, Uni-

versity of Maine at Portland-Gorham teams compete against other Maine colleges and nearby New England colleges. In addition, state intercollegiate tournaments are sponsored by the Maine Association for Physical Education of College Women and are held in all the individual sports above as well as in volleyball and basketball. UMPC teams also have the opportunity to qualify for and participate in regional and national tournaments.

INTRAMURAL SPORTS FOR MEN

Intramural activities are voluntary and are organized to provide activity in as many different sports as a student interest warrants. Special interest groups are encouraged to approach the intramural director for assistance in organizing club sports. When appropriate, competition will be arranged on an extramural basis to provide competition with intramural teams of other colleges and university campuses.

A partial list of intramural sports includes: soccer, tennis, golf, bowling, flag football, cross country, table tennis, basketball, wrestling, badminton, volleyball, softball, track and field, cycle racing, handball, squash, paddleball, foulshooting, and archery.

Team play, sportsmanship, and individual participation are encouraged throughout the programs. Trophies are awarded to individual members of the championship team in each sport.

Any student or organization may organize a team and enter it for competition. Students are encouraged to form teams consisting of students from the same high school, physical education class, fraternity, neighborhood, dormitory, major area, or rooming house. Independent players who have difficulty finding a team in which to participate should report to the Intramural Office for assistance. All business pertinent to intramural activities must be carried on in the Intramural Office, a branch of which is located in the gymnasium building on either campus. In addition to such organized sports, the gymnasium on both campuses are open regularly for drop-in activities.

WOMEN'S RECREATION ASSOCIATION

The purposes of WRA are varied and are intended to meet the needs and interests of all women students. The Women's Recreation Association is open to all women who are enrolled at UMPC. Student officers and faculty advisors, representing each campus, organize and carry out the program of activities. The recreational activities offered include intramural sports, such as badminton, basketball, tennis and volleyball, modern and folk dance, cheerleading, and clubs in the areas of gymnastics and skiing.

Events of the Arts

THE ANNUAL CONCERT-LECTURE SERIES

The University of Maine at Portland-Gorham offers an annual Concert-Lecture Series, with programs held partly at the Gorham Campus and partly at the Portland Campus. Well-known touring companies, such as the National Shakespeare Company and the Turnau Opera Players, present drama and opera; orchestral groups, instrumental soloists, and singers perform in concerts; poets, writers, and touring speakers on relevant issues give public lectures, which are often preceded by afternoon workshops or informal seminars open

to interested students. Nearly all these programs are open to registered students without charge, with a limited number of tickets available to the general public at a nominal charge.

Programs at the Gorham Campus are usually scheduled in either Russell Hall or Bailey Hall Auditorium, while Portland programs are held in either Luther Bonney Auditorium or the Portland Campus Gymnasium.

STUDENT PERFORMANCES

Drama groups at both the Gorham and Portland Campuses offer one or more public presentations each semester. The Art Theatre at the Portland Campus has developed into a significant campus and community activity, emphasizing contemporary experimental theatre. The Treehouse Players of the Gorham Campus have won critical acclaim for the polished and almost professional quality of their productions. During the summer of 1971 the Players were selected to present USO performances before American military units in Thule, Greenland, Labrador, Newfoundland, and Iceland.

Modern Dance Productions are also featured periodically by students of Contemporary Dance.

FILM SERIES

The weekly screenings of the International Film Series at the Gorham Campus provide students and members of the public an opportunity to see many of the most famous films that have ever been produced, both in this country and abroad. The Gorham showings are presented one evening a week, usually on Thursdays, in Bailey Hall Auditorium. Portland screenings of similar films are presented frequently on Friday evenings in Luther Bonney Auditorium.

ART SHOWS AND LECTURES

The University Art Gallery on the Gorham Campus and the Quattro Gallery of the library on the Portland Campus both present a nearly continuous showing of professional works, interspersed with spring exhibitions of paintings, prints, and drawings produced by advanced or graduating students. The Quattro Gallery may be visited during the day and evening whenever the library is open. The University Art Gallery is normally open from 10 a.m. to 5 p.m. daily and from 2 to 5 p.m. on Sundays. In addition to these exhibits, occasional public lectures are presented by members of the Art faculty or visiting artists.

Financial Assistance

The University of Maine at Portland-Gorham offers various forms of financial assistance to students who show that they have a definite financial need if they are to continue their education.

Meeting the financial obligations of a college education is primarily the responsibility of the student and the parents. It is important that each student and the parents work out a financial plan for the period of time the student will be in the University. When such a plan indicates that there is need for financial aid, the University of Maine at Portland-Gorham may assist with loans, scholarships, or part-time work opportunities.

WHO MAY APPLY

Any full-time student enrolled in a program leading to a degree or any candidate applying for admission to the University of Maine at Portland-Gorham may apply for financial aid.

HOW TO APPLY

Prospective first-year students or transfer students should obtain a College Scholarship Service Parents' Confidential Statement from their high school guidance counselor or from any student aid office of the University of Maine. This application should be completed and forwarded to the College Scholarship Service as directed on the application. By submitting this application, the student is considered for all types of funds available.

Special care should be taken to indicate on the application which campus of the University the student is interested in.

Upperclass students should obtain an application through the University of Maine at Portland-Gorham Student Financial Aid Office. Students who are married, 23 years of age or over, or veterans of the armed services should indicate such facts when requesting an application. When the application is completed, it should be submitted to the College Scholarship Service as directed on the form. By submitting this application, the student is applying for all types of available aid.

All students should remember that in order to be considered for aid, they must complete new applications each year.

WHEN TO APPLY

Just prior to the Christmas vacation the University Aid Office usually conducts a series of student aid information meetings at which students may obtain applications. Students applying for admission to the University of Maine at Portland-Gorham must submit the College Scholarship Service forms at the same time that they apply to the University. First-year recipients will be notified during the spring semester of their senior year in high school.

Students currently enrolled at Portland-Gorham are required to submit their application for the coming academic year on or before January 1. Recipients will be notified on or about July 15. All students should remember that in order to be considered for aid, applications must be completed each year.

CONDITIONS FOR AWARDS

Students may be granted financial assistance if a definite need is indicated by the Parents' Confidential Statement and in an evaluation made by the Financial Aid Office.

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

SOURCES OF FINANCIAL ASSISTANCE GRANTS AND SCHOLARSHIPS

The University of Maine at Portland-Gorham participates in the Educational Opportunity Grants Program. Funds are provided by the federal government for grants to students who have exceptional financial need.

University Scholarships are granted annually to approximately 300 students who are in good academic standing, and have a definite financial need.

The Simmons Foundation, Inc., Grant Program consists of funds awarded annually to approximately 15 students who have demonstrated financial need.

Recipients of the following Special Scholarships are selected by the Student Financial Aid Office according to the qualifications established by the donors.

These awards are based on financial need, academic excellence, and outstanding campus leadership:

Class of 1950

Given in memory of Barbara Payne

Class of 1963

Given in memory of Nancy
Chandler

Alumni Association

Presented in memory of
Walter E. Russell

Alumni, Southern Branch

Alumni, Portland Branch

Charles F. Martin

Gertrude L. Stone

Frances Howarth

Frank F. Brown

Fannie E. Gray

Hervey Hanscom

Bailey-Jenkins

Given by Richard Jenkins in mem-
ory of his parents and honoring Dr.
Bailey

Richard Goodridge

Gertrude Prinn Scholarship

Woodward-Alumni Scholarship

Delta Chi Fraternity Scholarship

Kappa Delta Epsilon Sorority
Scholarship

American Association of University
Professors Scholarship

ARA Self Reliance Award

Simmons Foundation Grant

Mabel Kennedy Student Nursing
Grant

Carl Beyer Law Student Grant

George D. Woodward Accounting
Student Grant

Roland Irish Business Administration
Grant

Mabel S. Davis Grant

Maine Medical Center — Combined
Women's Boards Nursing Grant

Lucy Stone League Law Student
Grant

James B. Langley Law Student Grant

Israel Bernstein Law Student Grant

Kenneth and Marjorie C. Baird Law
Student Grant

Hollis W. Moore Industrial Arts
Award

Portland Junior College Grant

Phillip I. Milliken Grant

LOANS

The University of Maine at Portland-Gorham participates in the National Defense Student Loan Program. Funds are provided by the federal government. Students may borrow funds from the government under this program with interest and payments deferred until after completion of their degree work. Loans average approximately \$300 for an academic year. Limited funds require that loans be made on the basis of need.

The University of Maine at Portland-Gorham is a participating member in the United Student Aid Fund, Inc., Loan Program. Under this program students may borrow money directly from participating local banks with payments and interest deferred until after the completion of their degree. Students may borrow up to \$1,000 annually as undergraduates and up to \$1,500 annually as graduate students for a total not to exceed \$7,500. Applications for these loans are to be secured directly from participating banks and then submitted to the University Aid Office.

There are a number of revolving short-term emergency loan funds on both the Portland and Gorham campuses. These funds should be applied for through the Student Affairs Offices on either campus. Normally loans are not made in excess of \$40.

WORK

The University of Maine at Portland-Gorham participates in the College Work-Study Program. Funds are provided by the federal government and the University to employ students both on and off campus. Student earnings through this program are to be used to help defray educational expenses. Special consideration in hiring is given to students from low income families.

The University operates another work program referred to as Student Employment. This program is funded by the University and operates in the same way as the College Work-Study Program described above.

NURSING STUDENTS

The University of Maine at Portland-Gorham participates in the federally funded Nursing Loan and Scholarship Program. In order to qualify for either of these programs, a nursing student must be enrolled in an accredited degree program, such as that of the UMPG School of Nursing. Awards of both loans and scholarships are based on student need. Interest and payments may be deferred until after completion of the degree program. There are provisions for cancelling a portion of this loan for students who pursue a career of nursing.

LAW ENFORCEMENT STUDENTS

The Law Enforcement Education Program offers both loans and grants for college study by students who are preparing for careers connected with criminal justice and who are already employed by police departments, courts, and correctional agencies. The funds are provided by the federal government and are awarded on the basis of financial need and certain priority quotas.

Student Regulations

STUDENT HANDBOOK

The Student Affairs Office of the University of Maine at Portland-Gorham compiles the official **Student Handbook**, which explains such matters as campus policies, the governance structure, and the functions of various campus offices. The handbook also contains the UMPG Disciplinary Code, which is designed to protect the rights of all individuals in the University. The handbook is distributed to all registered students.

MOTOR VEHICLE REGULATIONS

In the interest of safety for all students, policies regulating the use of motor vehicles on the UMPG campuses are strictly enforced. The Plant Department distributes campus maps showing parking areas, together with regulations governing the use of motor vehicles, to each student who registers for classes.

Because of limited parking space, freshmen and sophomores classified as resident students are not permitted to have or operate motor vehicles on the Gorham Campus.

All other students are permitted to park their motor vehicles only in the proper designated areas.

UMPG Academic Policies

1972-1973

GENERAL REQUIREMENTS FOR ALL BACCALAUREATE CANDIDATES

The General Education Requirement of UMPG consists of 30 semester-hours, 24 hours of which consists of four 6-hour groups of courses, each group either interdisciplinary or chosen from a different one of the four areas of (1) Humanities, (2) Fine and Applied Arts, (3) Science and Mathematics, and (4) Social Sciences. The prefix-codes of acceptable course selections are listed on the inside front cover of this catalog. The remaining six hours shall be selected from one, or a combination, of the four academic groupings or SCOGIS courses.

Departmental courses in the student's major may not be applied toward fulfillment of the General Education Requirement.

A student who has matriculated before September 1971 may continue the program under the requirements at force at the time of matriculation, or may elect to complete the General Education Requirements under the provision stated above.

The Physical Education Requirement of UMPG requires all freshmen and transfer students, both men and women, 29 years of age or under, to satisfy the University's requirement of one year of physical education. Further details are given on the inside back cover of the catalog.

ATTENDANCE POLICY

The attendance policy is left to the discretion of the individual faculty member. Each semester, it is the responsibility of the faculty member to inform the students in each class of the attendance requirements for that class. Whenever, in the opinion of the instructor, a student's absences impair the quality of work, the instructor will report this fact to the Dean of the appropriate School or College.

EXAMINATION POLICY

The examination policy is left to the discretion of the individual faculty member to inform the students in each class of the examination requirements for that class. A final course-evaluation will be scheduled for all classes at a designated time and place during examination week.

Usually, two to four preliminary examinations are administered in each course and count heavily on the final grade. Final examinations are normally scheduled at the end of each semester according to a regular schedule. Finals cannot be taken before the regularly scheduled time.

ABSENCE FROM A FINAL EXAMINATION

An absence from a final examination must be made up during the semester immediately following the one in which the absence occurred, unless the time limit has been extended by the Dean. Courses not made up within the time limit are automatically marked as F.

Students who miss a final examination and are failing the course at the time may be given the grade of F instead of being marked I for the semester grade. A student who misses a final examination should immediately contact the instructor to apply for a special examination.

GRADE REPORTS

Regular grade reports are sent to all students at their official addresses at the end of the semester. Final grades cannot be secured in advance from the Registrar.

THE GRADING SYSTEM

Grades at the University of Maine at Portland-Gorham are given in terms of letters representing levels of achievement. The basis for determining a grade is the relative extent to which the student has achieved the objectives of the course. The student's work in each course is graded as follows:

A — High honors.

B — Honors.

C — Satisfactory, successful, and respectable meeting of the course objectives.

D — Low-level work, below the average required for graduation for an undergraduate, and a failing grade for a graduate student. In addition, individual departments may limit the number of D grades accepted, as stated in the departmental sections of this catalog. The paragraph below on "Minimum Grade Policy" and "D Grade and Repeating Courses" should also be noted.

F — Failure to meet the course objectives.

P — Pass: given only for certain courses open to the pass-fail option.

I — Incomplete: a temporary grade given when the student, due to extraordinary circumstances, has failed to complete required work. Required work must be completed and a grade submitted in the semester following the semester in which the I grade was received. An I which is not removed during this period becomes an F.

W — Withdrawal during the second five weeks of a semester.

WP — Withdrawal while passing: Approved withdrawal from a course, after the end of the first ten weeks, when the student is doing satisfactory work to the date of recommendation for the withdrawal. The WP grade is not considered in grade-point average computation.

WF — Withdrawal while failing: Approved withdrawal from a course, after the first ten weeks, when the student is doing failing work to the date of recommendation for the withdrawal. The WF grade is treated as an F in grade-point average computation.

GRADE-POINT AVERAGES

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

A — 4 grade points per credit hour

B — 3 grade points per credit hour

C — 2 grade points per credit hour

D — 1 grade point per credit hour

F — 0 grade points

To compute the grade-point average for a semester, first multiply the grade points earned in each course by the number of credit hours assigned to that course. The resulting product is the number of quality points for that course. Then divide the total number of quality points earned during the semester by the total number of credits carried in that semester. The result is carried out to two decimal places to produce the grade-point average for that semester.

To compute the cumulative grade-point average, divide the total quality points earned by the total credits carried in all semesters. If a course has been

repeated, the initial grade remains on the record but does not count toward the grade-point average.

At the end of each semester, full-time students with grade-point averages of 3.2 or better are placed on the Dean's List.

MINIMUM GRADE POLICY

Minimum cumulative grade-point averages for all undergraduate programs at UMPG are as follows:

| | <i>Cumulative Minimum Grade-Point Averages</i> | |
|---|--|--------------------------------------|
| | <i>For Good Standing</i> | <i>For Probationary Standing</i> |
| Freshmen: end of 1st semester | 1.35 | 1.15 |
| Freshmen: end of 2nd semester | 1.60 | 1.35 |
| Sophomores: end of 1st semester | 1.80 | 1.60 |
| Sophomores: end of 2nd semester | 2.00 | 1.80 |
| Juniors & Seniors: end of each semester | 2.00 | 1.80 |

Students with majors or minors in English, History, or the Social Sciences Area, including both those in the baccalaureate program of the College of Liberal Arts and also those in the Secondary Education program of the School of Education, must achieve at least six credits with grades of B or better in their major or minor requirements. No grades of D will count toward fulfillment of the major or minor requirements in these programs.

"D" GRADE AND REPEATING COURSES

Students may repeat courses in which they have received a grade of "F" or a grade of "D" where "D" is not acceptable to fulfill a departmental requirement. Students may repeat a course no more than once except when the course is required for graduation. All grades received will appear on the student's transcript, but the second or latest grade only will be used to compute the grade-point average.

Students entering the clinical courses of the Nursing major at the junior level are required to have a cumulative grade point average of 2.0. A cumulative point average of 2.0 is also required for graduation. In clinical courses of the Nursing major, students may receive only one D grade. If a student receives a second D grade or a D grade in a course the second semester of the junior or senior year, the course must be repeated.

PASS-FAIL OPTION

Outside of courses in the major or minor area of concentration, or courses taken to satisfy UMPG General Education Requirements, an undergraduate student is permitted to register for a maximum of six hours of pass-fail credits in any one semester, up to a maximum of 18 hours of the total credit-hours required for graduation.

An undergraduate in the School of Education may register for a total of 18 hours of pass-fail credits in addition to possible pass-fail credits for Student Teaching and the related seminar. Student Teaching and the related seminar are considered as a single bloc for election of the pass-fail option. Required courses in the Core Curriculum and in the student's major may not be taken pass-fail; and only one course in the minor may be taken pass-fail.

DOUBLE MAJORS

When a student completes the basic requirements for graduation from a school or college and the course requirements for two majors, the student should request the dean to notify the Registrar, who will record the double major on the student's transcript.

INDEPENDENT STUDY

Junior and Senior students may elect independent study in their major for one to six credits. Normally, no more than three credits may be earned in a semester.

The student submits an independent study application which includes a detailed description of the proposed program of study. Permission of the instructor and approval by the department chairman and the dean are required.

The approved independent study form is filed with the Registrar during the registration period.

ADD-DROP

Once a student has completed registration, a period of one week is permitted for dropping or adding courses. This procedure permits a student to make the necessary course changes in the planned curriculum. Also, during the first five weeks of the term a student may drop any course without having a grade recorded. All Add-Drops are initiated at the Registrar's Office. All students who register for a course and withdraw will be graded WF unless they officially complete the procedure of dropping the course.

Any students who find that their names are not on the instructor's official list should check immediately with the Registrar's Office to make necessary corrections in the registration records.

CHANGE OF MAJOR WITHIN A SCHOOL OR COLLEGE

Permission to change from one major to another is granted only by the Office of the Dean and the head of the department in which the student expects to major. A form for the change must be obtained from the Dean's Office. A change-of-major form must be filed with both the Dean's Office and the Registrar's Office.

CHANGE OF COLLEGE OR SCHOOL

Information on the procedure for change of College or School may be obtained from the Admissions Office.

WITHDRAWAL FROM THE UNIVERSITY

The procedure for withdrawal from the University is to secure an official withdrawal slip from the Registrar's Office. The student will then be instructed to take the slip for signature to the several campus offices concerned. Once the student has obtained the necessary signatures, the student will return the slip to the Registrar's Office for checking. After it is checked and found satisfactory, the student will leave the slip at the Business Office.

If a student withdraws from the University during the first five weeks of the semester, there will be no course grade recorded. If a student withdraws from the University during the second five weeks, the student's record will show only "W" for the course in which the student was enrolled. When a student withdraws from the University during the last five weeks of the semester, the student will receive a "WF" or a "WP." The "WF" will be counted in the grade-point average.

Withdrawn students who wish to re-enter the University must apply to the Director of Admissions for re-admission.

SUSPENSION

Students may be suspended from the University either by the University Committee on Academic Standing or by the University Disciplinary Committee. Academic suspension is automatic when a student receives a semester average below 1.0. Other standards vary from college to college and from class to class. Students are urged to consult advisers to learn the standards that apply to them. For details about disciplinary suspension and dismissal, consult the "Disciplinary Code," published by the Office of Student Affairs.

PROBATION

A student may be placed on academic probation by the Committee on Academic Standing if the student is making unsatisfactory progress toward meeting graduation requirements. The student is liable to be suspended at the end of the following semester unless substantial progress is made. Since exact standards vary somewhat from college to college and from class to class, students are urged to discuss with advisers in the appropriate academic Dean's Office the record they should maintain to avoid probation or suspension.

A student may remove himself from probation through Summer Session courses if the courses have been approved in advance by the adviser and the appropriate Dean.

CLASS MEMBERSHIP

Since a minimum of 120 credit-hours is required for graduation in most four-year programs, at least 30 credit-hours should be earned each year. To progress satisfactorily through college, a student is expected to carry at least 15 credit-hours each semester. Permission must be obtained from the adviser and the appropriate Dean if a student wishes to carry less than 12 or more than 18 credit-hours.

For standing as a sophomore, a student shall have completed at least 19 percent of the hours required for graduation, for junior standing 44 percent, and for senior standing 69 percent, except in the School of Nursing wherein the respective percentages are 25 percent, 50 percent, and 75 percent.

The requirements by classes, schools and college are:

| <i>School or College</i> | <i>Required Number of Credit-Hours</i> | | | |
|---------------------------|--|---------------|---------------|--------------------------|
| | <i>Sophomore</i> | <i>Junior</i> | <i>Senior</i> | <i>Total to Graduate</i> |
| Liberal Arts | 23 | 53 | 83 | 120 |
| Business and Economics | | | | |
| Baccalaureate Programs | 23 | 53 | 83 | 120 |
| Two-Year Business | 23 | — | — | 62 |
| Education | | | | |
| Music Education | 26 | 60 | 94 | 136 |
| Industrial Arts Education | 25 | 55 | 88 | 127 |
| All Other Programs | 23 | 53 | 83 | 120 |
| Nursing | 30 | 60 | 90 | 120 |

GRADUATION REQUIREMENTS

A candidate for a bachelor's degree must (a) receive passing grades in all courses required by the University, the school or college, and the major department; (b) accumulate the number of credit hours required by the school or college in which the student is registered; (c) achieve an accumulative average of not less than 2.00; (d) meet the requirements of the major department.

GRADUATION WITH DISTINCTION

Baccalaureate Degrees with Distinction are conferred at commencement for the following attainments in rank.

Seniors having an average grade of 3.50 or above will be graduated with highest distinction, 3.25 to 3.49 with high distinction, and 3.00 to 3.24 with distinction if they meet the criteria listed on the next page.

The average grade is based on the completion of at least seven-eighths of the required hours, which must include at the time of graduation three years of resident study at the University of Maine at Portland-Gorham. Candidates must take their senior year at the University of Maine at Portland-Gorham or receive permission from their Dean to complete work elsewhere.

GRADUATION WITH HONORS

A degree with Honors, with High Honors, or with Highest Honors is awarded to seniors who successfully complete the Honors Program, which is described in a section of the catalog immediately before the departmental listing of course descriptions for the College of Liberal Arts.

College of Liberal Arts

KONNILYN G. FEIG, Dean

WILLIAM L. WHITING, Associate Dean

The College of Liberal Arts offers programs of study and service to all undergraduate students of the University. Students enrolled in the School of Business and Economics, the School of Education, or the School of Nursing all must take a number of courses offered by the College of Liberal Arts to meet the requirements for their baccalaureate degrees. A student with a major in one of the Liberal Arts departments or disciplines may take all the academic work in the College of Liberal Arts, with the exception of the six hours of interdisciplinary work stipulated by the General Education Requirements of the University.

DEPARTMENTAL ORGANIZATION

The College of Liberal Arts at UMPG is composed of the following departments, each of which is described in turn on the following pages:

Art Department

Biological Sciences Department

Criminal Justice Department

English Department, including the disciplines of English and of Comparative Literature

Foreign Languages and Classics Department, including the disciplines of Literature and Civilization in English Translation, Classics (including Greek and Latin), French, German, and Spanish

Geography and Anthropology Department

History Department

Mathematics Department

Music Department

Philosophy Department

Physical Sciences and Engineering Department, including the disciplines of Astronomy, Chemistry, Earth Science, Engineering, General Science, Physical Science, and Physics

Political Science Department

Psychology Department

Social Welfare Department

Sociology Department

Theatre-Speech Department

BACHELOR OF ARTS PROGRAMS

Programs of study leading to a Bachelor of Arts degree are available for students who meet the admission standards for the programs in question, who satisfy the General Education Requirements of the University, and who desire to concentrate in one of the following major areas:

| | | |
|-----------|-------------------|----------------|
| Art | History | Psychology |
| Biology | Mathematics | Social Welfare |
| Economics | Music | Sociology |
| English | Philosophy | Theatre-Speech |
| French | Political Science | |

BACHELOR OF SCIENCE PROGRAM IN CRIMINAL JUSTICE

A Bachelor of Science degree with a major in Criminal Justice may be earned through a new program offered by the College of Liberal Arts. Details are given at the beginning of the course description section of the Criminal Justice Department.

ACADEMIC MAJORS PROVIDED BY THE COLLEGE OF LIBERAL ARTS FOR THE SCHOOL OF EDUCATION

The College of Liberal Arts cooperates with the School of Education by offering various programs enabling students of Education to concentrate in any one of a number of subject areas, as explained in the introductory section of the course descriptions of each of the following departments of the College of Liberal Arts:

| <i>Liberal Arts Department</i> | <i>Programs for School of Education Students</i> |
|--------------------------------|--|
| Art | Art Education |
| Biological Sciences | Biological Science Major (Secondary Education) Biological Science Minor (Secondary Education) (Certain biological sciences are also included in the Science Area Major and Minor for students of Education, as listed under Physical Sciences.) |
| English | English Major and Minor (Secondary Education) English Major and Minor (Elementary or Kindergarten-Primary Education) |
| Foreign Languages | French Major (Secondary Education) |
| Geography-Anthropology | Social Science Area Major (Secondary Education) Social Science Area Major and Minor (Elementary or Kindergarten-Primary Education) Geography Minor (Elementary or Kindergarten-Primary Education) |
| History | History Major and Minor (Secondary Education) History Major and Minor (Elementary or Kindergarten-Primary Education) |
| Mathematics | Mathematics Major and Minor (Secondary Education) Mathematics Major and Minor (Elementary or Kindergarten-Primary Education) |
| Music | Music Education |

| | |
|--|--|
| Physical Sciences and Engineering | Science Area Major (Secondary Education) (Certain biological sciences are included in this program.) Science Area Minor (Elementary or Kindergarten-Primary Education) (Certain biological sciences included) |
| Theatre-Speech | Theatre-Speech Major (Secondary Education) |

REQUIREMENTS FOR DEGREE PROGRAMS

Three levels of requirements must be satisfied before candidates can be awarded degrees. **Departmental Requirements** have to do with the courses required for specific majors. **School or College Requirements** are set by the school or college in which the candidate is enrolled. **General Requirements** pertain to all baccalaureate degree candidates at the University of Maine at Portland-Gorham.

DEPARTMENTAL REQUIREMENTS

The Departmental Requirements for majors in each of the programs listed in the preceding paragraphs are defined in the paragraphs immediately preceding the course descriptions for the various departments of the College of Liberal Arts. Whenever a major program leading to the degree of Bachelor of Arts is offered directly by a department, and another program meeting the academic major needs for a candidate for a Bachelor of Science degree for a student in the School of Education is also available, both major programs are defined in this departmental section of the College of Liberal Arts.

SCHOOL OR COLLEGE REQUIREMENTS

Students in the School of Education whose program requires them to satisfy one of the Departmental Requirements for academic majors, as listed in the departmental section of the College of Liberal Arts, must also meet the School of Education requirements set forth under the section of the catalog dealing with the School of Education.

At the time of the printing of this catalog in June 1972, students in the College of Liberal Arts are required to meet no additional College Requirements beyond the Departmental Requirements and General Requirements. The College of Liberal Arts may, however, adopt added College Requirements prior to the publication of the next catalog. If this should happen, information relative to such additional requirements may be obtained from the office of the Dean of Liberal Arts.

GENERAL REQUIREMENTS FOR ALL BACCALAUREATE DEGREE CANDIDATES AT UMPG

The General Education Requirement of UMPG consists of 30 semester-hours, 24 hours of which consists of four 6-hour groups of courses, each group either interdisciplinary or chosen from a different one of the four areas below, with course selections restricted to the prefix-code designations listed. The remaining six hours shall be selected from one, or a combination, of the four academic groupings or SCOGIS courses.

AREA 1: HUMANITIES

| | | | | | |
|-------------|--------------------------|------------|----------|------------|--------------|
| CLS | (Classics) | FRE | (French) | LAT | (Latin) |
| CPEN | (Comparative Literature) | GMN | (German) | FLY | (Philosophy) |
| ENG | (English) | GRK | (Greek) | SPN | (Spanish) |

AREA 2: FINE AND APPLIED ARTS

| | | | |
|-------------|--------------------------------|-------------|---------------------|
| ARTH | (Art History and Appreciation) | MUS | (Music) |
| ARTS | (Art Studio Courses) | MUSP | (Music Performance) |
| DNCE | (Dance) | TSP | (Theatre-Speech) |

AREA 3: SCIENCE AND MATHEMATICS

| | | | | | |
|-------------|-----------------|-------------|-------------------|-------------|--------------------|
| ASTR | (Astronomy) | GEOL | (Geology) | OCN | (Oceanography) |
| BIO | (Biology) | GSCI | (General Science) | PHYS | (Physics) |
| CHEM | (Chemistry) | MET | (Meteorology) | PSCI | (Physical Science) |
| ESCI | (Earth Science) | MS | (Mathematics) | | |

AREA 4: SOCIAL SCIENCES

| | | | | | |
|-------------|--------------------|-------------|---------------------|------------|------------------|
| ANY | (Anthropology) | GEOG | (Geography) | PSY | (Psychology) |
| CJ | (Criminal Justice) | HIST | (History) | SOC | (Sociology) |
| ECON | (Economics) | POL | (Political Science) | SWE | (Social Welfare) |

Department courses in the student's major area may not be applied toward fulfillment of the General Education Requirement. In addition, students in the School of Business Administration, the School of Education, or the School of Nursing may be further restricted in course selections from one or more of the four areas because of the specific requirements of the program in which they are enrolled.

A student who has matriculated before September 1971 may continue the program under the requirements in force at the time of matriculation or the student may elect to complete the General Education Requirements under the provisions stated above.

The Physical Education Requirement of UMPG requires every freshman and transfer undergraduate student of either sex to satisfy the University's requirement of one year of physical education, unless excused in writing by the dean of school or college on the basis of one or more of the exemption criteria printed on the inside back cover of this catalog.

UMPG SYSTEM OF COURSE CODING

| | |
|---------|--|
| 000-099 | No degree credit |
| 10-99 | Two digits indicate Associate Degree program |
| 100-199 | Introductory level |
| 200-299 | Intermediate level |
| 300-399 | Intermediate level |
| 400-499 | Senior level, others by permission |
| 500-599 | Graduate level |
| 600-699 | Professional graduate level, as in the School of Law |

The information contained in this catalog covers rules, regulations, curricula, and programs as established by May 12, 1972, for the 1972-73 academic year. The University reserves the right to make changes at any time.

The Honors Program

H. DRAPER HUNT, Secretary (On leave Fall Semester 1972)
OLIVER WOSHINSKY, Acting Secretary (Fall Semester 1972)

A close student-professor relationship and a rare and exciting intellectual experience are the essence of the Honors Program here. The Honors Program provides for the exceptional student, the student with a curious, questing mind and with demonstrated scholastic ability, a most rewarding intellectual experience. What the students learn in Honors about the life of the mind from their own reading in the major areas of knowledge — mathematics and science, social studies, literature, philosophy and the fine arts — and through group discussions in the freshman and sophomore years; what the student derives from penetrating study in the field of concentration in the junior year and from the research and writing of the senior thesis will permanently enrich the student's life. Moreover, Honors training is excellent experience for the student preparing for graduate school.

Normally, an incoming freshman will be invited to join the Honors Program on the basis of intellectual curiosity and initiative as displayed in the high school work, as well as on the basis of the C.E.E.B. test scores. Already enrolled students who have demonstrated intellectual curiosity and ability and have maintained a point average of 3.0 or better may be invited to join the Program as second-semester freshmen or sophomores. Some few exceptionally qualified juniors may be admitted to the Program, which is open to students from all schools and colleges.

To graduate with honors, a student must successfully complete (with a grade of B or higher) a minimum of four semesters of Honors work, including both semesters of the senior year (HRS 450 and 460) and at least one semester of sophomore group tutorials (HRS 250, 260). A student who has successfully completed the Honors Program will be awarded a degree with honors in one of three categories: Honors, High Honors, Highest Honors, depending upon three factors: the quality of the student's senior thesis or research project; the performance on the comprehensive oral examination; and the accumulative average over seven semesters.

COURSE DESCRIPTIONS

HRS 150 Distinguished Freshman Seminar

Discussions and demonstrations displaying the range and nature of liberal arts and sciences. Offered in the fall semester. Limited to selected freshmen. Mrs. Duclos
Three credit hours

HRS 160 Honors Colloquium

Readings and discussion on the basic concepts of Western civilization. Offered in the spring semester. Limited to selected freshmen. Mrs. Duclos
Three credit hours

HRS 250 Honors Group Tutorial I

Oral and written reports under tutorial direction. The student is expected to read widely in areas outside the normal course program and particular field of interest. The books are selected from an honors reading list, and each group tutorial does substantial reading in three or four areas of thought each semester. Open to sophomores and those students admitted to the Honors program at the beginning of the junior year. Mr. Albee
Three credit hours

HRS 260 Honors Group Tutorial II

A spring semester course, similar in description to HRS 250. Open to sophomores and to those students admitted to the Honors Program at the beginning of the junior year. Mr. Albee
Three credit hours

HRS 300 Honors Seminar

Discussion groups or individual tutorials in such fields as the arts, philosophy and history of science, and the study of society. Content varies from year to year. Normally taken in the junior year. Staff
Three credit hours

HRS 350 Honors: Specialized Studies I

Individual tutorial work in the student's major field. The student will read both in depth and breadth in the chosen area of concentration under faculty guidance, and will select an approved thesis topic by the end of the course. Open to juniors. Staff
Three credit hours

HRS 360 Honors: Specialized Studies II

A spring semester course, similar in description to HRS 350. Open to juniors. Staff

HRS 450 Honors Thesis I

The planning and completion of an honors thesis or research topic. The student will work closely with the faculty tutor and should expect to submit the thesis by May 1. This will be followed by a comprehensive oral examination before a faculty board in which a student demonstrates both breadth of knowledge and depth of specialization within the major field. Prerequisite: At least two honors courses, one of which must be either HRS 250 or HRS 260. Staff
Three credit hours

HRS 460 Honors Thesis II

A continuation of HRS 450. Staff
Three credit hours

Art

Associate Professor Bearce; Assistant Professors Miner, Moore, Rakovan, Sawtelle, Ubans; Instructor Franklin.

The Department of Art offers a major in Art in the College of Liberal Arts and Art Education in the School of Education. Graduates of the Art Education program are qualified to teach or supervise art in all grades of the public schools.

ADMISSIONS PROCEDURES

Department of Art

Each applicant should first follow the standard admission procedures of the University of Maine at Portland-Gorham. A person interested in the Art Education program should apply for admission to the School of Education and specify the Art Major. A person interested in the Art Major in liberal arts should apply for admission to the College of Liberal Arts and specify the Art Major. Candidates applying for admission should submit their applications during the fall or early winter to allow sufficient time for the departmental admission procedures described below.

Each applicant for admission to either Art Program at the University of Maine at Portland-Gorham is requested to submit to the Art Department at the Gorham Campus a portfolio of original art work. This portfolio should consist of 20 works in varying media, including one life-size self-portrait drawn from life in any media of the student's choice, together with a selection which indicates the applicant's current interests and abilities. Prints, drawings, paintings, posters, photographs, films, and slides may be included. Any sculpture or three-dimensional works may be represented by photographs.

During the late winter, the Art Department will notify each applicant of the date on which the portfolio is to be submitted.

In the spring, applicants will be requested to visit the Gorham Campus for a day of interviews and conferences. Luncheon will be available at the Student Dining Center. Applicants will be informed of the details of the schedule

upon their arrival. Parents wishing to accompany applicants and become acquainted with the campus are cordially invited. Portfolios will be returned at this time.

Final notification of a decision will come from the Office of Admissions when the admission folder is completed.

Students already enrolled in the University who wish to change their majors to Art must follow the departmental admission procedures concerning submission of portfolio, as described above.

GENERAL EDUCATION REQUIREMENTS

All students are reminded that, in addition to their meeting departmental requirements for a major leading to a baccalaureate degree, they must also meet the requirements of the school or college involved, as well as the University's General Education Requirements and the Physical Education Requirements. These general requirements are printed inside the front cover of this catalog.

All art majors must satisfy the General Education Requirement in Fine and Applied Arts by acquiring six credits in Theatre-Speech or Music. All other requirements are open.

For students outside the art major who seek to meet the General Education Requirement in Fine and Applied Arts, the following courses are recommended by the Department of Art:

| | |
|----------|--|
| ARTH 101 | Introduction to Art |
| ARTH 102 | Film as Image and Idea |
| ARTH 111 | History of Art I (space permitting) |
| ARTH 112 | History of Art II (space permitting and with permission of the instructor) |
| ARTS 141 | Design I (space permitting) |
| ARTS 151 | Drawing I (space permitting) |

**COMMON REQUIREMENTS FOR ART
OR ART EDUCATION MAJORS**

All students majoring in Art or Art Education are required to complete the following basic courses in Art which constitute the Art Core:

ART CORE

| | <i>Credit hours</i> |
|----------------------------|---------------------|
| ARTH 111 History of Art I | 3 |
| ARTH 112 History of Art II | 3 |
| ARTS 141 Design I | 3 |
| ARTS 142 Design II | 3 |
| ARTS 143 Design III | 3 |
| ARTS 151 Drawing I | 3 |
| ARTS 152 Drawing II | 3 |
| ARTS 153 Drawing III | 3 |

In order to be admitted to advanced Art courses any student must take the Art Core.

**REQUIREMENTS FOR ART MAJOR
IN COLLEGE OF LIBERAL ARTS**

| | <i>Credit hours</i> |
|---|---------------------|
| Art Core | 24 |
| Art Studio | |
| ARTS 231 Materials and Techniques | 3 |
| ARTS 408 (or 418, 428, 438, 448, 458, 468, 478, 488, or 498) Independent Study in Art | 3 |
| ARTS Concentration: A concentration of 12 credits in courses numbered 200 or above is required in one of the following: crafts, design, drawing, painting, printmaking, or sculpture. | 12 |

| | |
|--|---------------------|
| <i>Art Major, Continued</i> | <i>Credit Hours</i> |
| ARTS Electives | 12 |
| Art History | |
| Electives | 12 |
| Philosophy | |
| Choice of either PLY 220 Aesthetics or ARTH 411 Philosophy of Arts | 3 |
| | <hr/> 69 hours |

REQUIREMENTS IN ART EDUCATION

| | |
|---|----------------|
| Art Core | 24 |
| Professional Education | |
| EDU 324 and seminar Student Teaching (12 credits) and a seminar (3 credits) | 15 |
| ARTE 221 Practicum in Art Education | 3 |
| ARTE 321 Principles and Procedures in Art Education | 3 |
| EDU 333 Human Growth and Development | 3 |
| EDU 103 Philosophy of Education | 3 |
| Art Studio | |
| ARTS 261 Painting I | 3 |
| ARTS 271 Photography I | 3 |
| Choice of ARTS 281 Printmaking — Relief | |
| or ARTS 282 Printmaking — Stencil | |
| or ARTS 283 Printmaking Intaglio I | |
| or ARTS 284 Printmaking Lithography I | 3 |
| ARTS 291 Sculpture I | 3 |
| Majors are also required to take three of the following courses: | |
| ARTS 231 Handcrafts | |
| ARTS 232 Ceramics I | |
| ARTS 332 Ceramics II | |
| ARTS 233 Metalwork I | |
| ARTS 234 Weaving I | |
| ARTS 334 Weaving II | 9 |
| Art History | |
| Elective | 3 |
| Philosophy | |
| Choice of either PLY 220 Aesthetics or ARTH 411 Philosophy of Art | 3 |
| | <hr/> 78 hours |

COURSES IN ART

ART HISTORY AND APPRECIATION

ARTH 101 Introduction to Art Mr. Rakovan, Mr. Minor
 Selected experiences using original works, lecture, panel discussion, slides, films, and other means to confront the student with the significance of the visual arts in human history. The aim of the course is to involve students in direct experiences affecting their own perception of visual form. Prerequisite: permission of instructor Three credit hours

ARTH 102 Film as Image and Idea Mr. Ubans
 An approach to the appreciation of motion pictures and allied arts through the understanding and analysis of the context, range, and resources of this, the only major form of creative expression conceived and developed entirely within the industrial age. Principles of evaluation, illustrated through the development of motion pictures to their present state. Three credit hours

ARTH 111 History of Art I Mr. Minor
 Examination and discussion of the early epochs of art from prehistoric cultures through the Renaissance. Special attention is directed to the relationships of historical and theoretical knowledge to creative expression. Divergent viewpoints of the art historian, the critic, and the artist are explored. The first half of an overview of the visual arts emphasizing the interrelationships of cultural values and the forms of art. Preference given to those matriculated in the Department of Art or those with permission of the instructor. Three credit hours

ARTH 112 History of Art II Mr. Minor
 A continuation of ARTH 111 from the Renaissance through the 20th Century. In both semesters of the course examples of architecture and sculpture, paintings, etc. are used as the basis of inquiry. Prerequisite: ARTH 111 or permission. Three credit hours

- ARTH 211 History of Architecture and the Urban Environment** Mrs. Wilson
A study of the European-American tradition of architectural design with emphasis upon the basic styles which influence American architecture and their utilization in urban America. Consideration of aesthetic and social interplay of architectural design throughout history, especially as it is manifest in urban design. Prerequisite: ARTH 112.
Three credit hours
- ARTH 312 History and Appreciation of the Graphic Arts**
An explanation of the graphic techniques: woodcut, engraving, etching, aquatint, lithography, etc. A study of the graphic arts as they have evolved throughout the history of art with emphasis upon the important graphic artists of Europe, America, and the Orient. Prerequisite: ARTH 112.
Three credit hours
- ARTH 314 Renaissance Art** Mr. Minor
The effects of the ideas of ancient Greece and Rome on the art forms of the 15th and 16th centuries in Florence, Rome, and other parts of Europe. Northern European ideas in conflict and resolution. Prerequisite: ARTH 112.
Three credit hours
- ARTH 316 Western Art from 1850-1900** Mr. Rakovan
A study of the major movements in the first half of the modern era. Prerequisite: ARTH 112
Three credit hours
- ARTH 317 Western Art from 1900-1950** Mr. Rakovan
A continuation of ARTH 316 including the growth and development of the modern "isms". Prerequisite: ARTH 112.
Three credit hours
- ARTH 411 Philosophy of Art** Mr. Minor, Mr. Moore
An investigation into the theories of art and beauty found in the writings of philosophers, painters, writers, and critics which form the basis of understanding of the fine arts. Readings and discussion of writers from ancient to modern times. Prerequisite: ARTH 112.
Three credit hours
- ARTH 412 Contemporary Art** Mr. Ubans
Examination of current developments in all the visual media: 1950 to the present. Prerequisite: ARTH 112.
Three credit hours

ART STUDIO COURSES

- ARTS 141 Design I** Mrs. Bearce, Mr. Moore
A coordinated series of experiments with basic design problems directed toward developing a sense of personal integrity, an awareness of the design potential, and the confidence, imagination, and skill needed to realize these potentials. Problems in color and light, systems of space, and visual design of graphic symbols stressing the presentation and use of basic tools. Preference given to those matriculated in Department of Art or those with permission of Instructor.
Three credit hours
- ARTS 142 Design II** Mrs. Bearce, Mr. Moore
Basic problems in two-dimensional design with relation to painting, sculpture, graphic arts, and architecture. Problems deal with elements of composition, color, space, time, movement, symbolic representation, and communication. Prerequisite: ARTS 141
Three credit hours
- ARTS 143 Design III** Mrs. Franklin
Problems in three-dimensional design utilizing the systemic study of order and space. Construction and analysis of basic forms in various materials (paper, wood, clay, plaster, and plastics). Prerequisite: ARTS 142.
Three credit hours
- ARTS 151 Drawing I** Staff
The craft and concepts of making drawings, stimulated by the forms, spaces, and and images of the tangible world, an introduction to marking tools and surfaces. Exposure to places, events, and objects with the purpose of stimulating the need to draw. Preference given to Art or Art Education majors or those with permission of instructor.
Three credit hours
- ARTS 152 Drawing II** Staff
Continuation of Drawing I with drawing from the model. Prerequisite: ARTS 151.
Three credit hours
- ARTS 153 Drawing III** Mrs. Bearce, Mr. Moore
Extensive combining of media. Stress on role of images, both object and model. Prerequisite: ARTS 152.
Three credit hours
- ARTS 231 Materials and Techniques** Mr. Rakovan
An introduction to materials, methods, and techniques for the professional artist-craftsman. Examination, comparison, and testing of materials, both traditional and experimental. Prerequisite: ARTS 143 and 153 or permission.
Three credit hours

- ARTS 232 Ceramics I** Mrs. Franklin
An introduction to methods and processes of clay forming, including modeling, pressing, handbuilding, and the potter's wheel. Emphasis of form and texture, with aspects of glaze composition and firing procedures. Prerequisite: Art core courses.
Three credit hours
- ARTS 233 Metalwork I**
An introduction to the methods and processes of forming and treating metals by forging, casting, enameling, stone-setting, vessel-raising. Emphasis on craftsmanship and design concepts. Prerequisite: Art core courses. (Not offered in 1972-73.) Three credit hours
- ARTS 234 Weaving I** Mrs. Sawtelle
An introduction to basic fabrics including a study of terms, tools, and procedures used in weaving. Problems may include tie dye, batik, moccasin, stenciling, and black print on various fibers. Prerequisite: Art core courses.
Three credit hours
- ARTS 241 Design IV** Mr. Rakovan, Mr. Ubans
Investigation of advanced design problems with emphasis on presentation. Prerequisite: ARTS 143.
Three credit hours
- ARTS 251 Drawing IV** Mrs. Bearce, Mr. Moore
Continued drawing with emphasis on independent direction. Prerequisite: ARTS 153.
Three credit hours
- ARTS 261 Painting I** Staff
An introduction to pigments, grounds, and methods of painting in varying media. Emphasis on technical and formal problems. Prerequisite: Art core courses.
Three credit hours
- ARTS 271 Photography I** Mr. Ubans
Photography as a creative medium. Provision of basic skills in the use of the camera and laboratory equipment. Investigation and practice in the fundamental techniques and processes of black and white photography as an art form. Prerequisite: Art core courses.
Three credit hours
- ARTS 281 Printmaking—Relief** Staff
Introduction to Relief Printmaking: Woodcut, Linoleum Block, Wood Engraving. Prerequisite: Art core courses.
Three credit hours
- ARTS 282 Printmaking—Stencil** Mr. Rakovan, Mr. Ubans
Introduction to silk screen printing, including photo-mechanical reproduction. Prerequisite: Art core courses.
Three credit hours
- ARTS 283 Printmaking Intaglio I** Mrs. Bearce
Introduction to Intaglio printmaking, using etching, engraving, aquatint, mezzotint, and drypoint. Prerequisite: Art core courses.
Three credit hours
- ARTS 284 Printmaking Lithography I** Mr. Rakovan
Introduction to the process of lithographic printing from stones. Prerequisite: Art core courses.
Three credit hours
- ARTS 291 Sculpture I** Mrs. Franklin
Clay modeling with emphasis on structure and anatomy of figure, and their relationship to sculptural form, including the building of an armature and a finished plaster cast. Prerequisite: Art core courses.
Three credit hours
- ARTS 332 Ceramics II** Mrs. Franklin
Application of design principles in production of ceramicware with a concentration on advanced problems in wheel thrown forms and hand building sculptures. Prerequisite: ARTS 232.
Three credit hours
- ARTS 334 Weaving II** Mrs. Sawtelle
Advanced work on hand and foot treadle looms; how to design and produce pattern weaves; the practical application of various fibers used in weaving. Prerequisite: ARTS 234.
Three credit hours
- ARTS 351 Drawing V** Mrs. Bearce, Mr. Moore
Making personal and complete drawings and series of drawings. Emphasis on individual concepts and personal expression. Prerequisite: ARTS 251.
Three credit hours
- ARTS 361 Painting II** Staff
Studies, principally from tangible situations, in the organization of pictorial ideas, the derivation of forms, and the control of space. Use of various painting media. Prerequisite: ARTS 261.
Three credit hours
- ARTS 362 Painting III** Mr. Rakovan
Exploration of the concepts and techniques of painting with emphasis on individual expression. Prerequisites: ARTS 361.
Three credit hours

ARTS 363 Watercolor

Watercolor, wash, dry-brush, ink and wash, gouache, and other techniques in water-media. Emphasis on individual concepts and personal expression. Prerequisite: Art core courses. Mr. Minor
Three credit hours

ARTS 371 Photography II

Exploration of concepts and techniques of photography with emphasis on individual forms of expression. Prerequisite: ARTS 271. Mr. Ubans
Three credit hours

ARTS 383 Printmaking Intaglio II

Continuation of Intaglio I with emphasis on viscosity techniques. Prerequisite: ARTS 283. Mrs. Bearce
Three credit hours

ARTS 384 Printmaking Lithography II

Continuation of Lithography I with emphasis on color printing. Prerequisite: ARTS 284. Mr. Rakovan
Three credit hours

ARTS 391 Sculpture II

The theory and practice of sculptural composition using a variety of techniques with traditional and new materials. Prerequisite: ARTS 291. Mrs. Franklin
Three credit hours

ARTS 461 Painting IV

Continuation of Painting III. Emphasis on individual concepts and personal expression. Prerequisites: ARTS 362. Mr. Rakovan
Three credit hours

ARTS 462 Painting V

Continuation of Painting IV. Investigation of advanced painting problems with emphasis on individual expression. Prerequisite: ARTS 461. Mrs. Bearce, Mr. Moore
Three credit hours

ARTS 408 Independent Study in Art (Senior level degree project)

An opportunity for the student who has demonstrated critical and analytical capability to pursue a project independently culminating in an artistic or technical creation, reflecting a high caliber of performance. Prerequisite: Permission of the Department. Staff
One to six credit hours

NOTE: Independent Study in Art may also be taken in a variety of art areas numbered as follows:

- ARTS 418 Art History
- ARTS 428 Art Education
- ARTS 438 Crafts
- ARTS 448 Design
- ARTS 458 Drawing
- ARTS 468 Photography
- ARTS 478 Printmaking
- ARTS 488 Sculpture

ART EDUCATION**ARTE 121 Art for the Classroom Teacher**

A study of growth and development in the creative abilities of children; how to utilize art projects to foster initiative, imagination, cooperation, and appreciation in the classroom. Prerequisite: Permission of instructor; not for students accepted as Art Education majors. Mrs. Franklin
Three credit hours

ARTE 122 Handcrafts

An introduction to the general handcrafts using simple tools and materials. Permission of instructor. Mrs. Sawtelle
Three credit hours

ARTE 221 Practicum in Art Education (Saturday Workshop)

Designed to give the art major student an early first-hand experience with children and the professional aspects of teaching. The student will work with children from elementary and secondary schools in the area. Prerequisite: For students accepted as Art Education majors or permission of instructor. Mrs. Sawtelle
Three credit hours

ARTE 321 Principles and Procedures in Art Education

A study of growth and development in the creative abilities of elementary and secondary students; introduction to methods of teaching art designed to enrich the curriculum. Prerequisite: ARTE 221. Mrs. Sawtelle
Three credit hours

ARTE 421 Student Teaching Seminar

For student teachers in art, this course takes the form of discussion and problem solving. Students endeavor to arrive at a tentative philosophy of art education and basic instructional techniques. Prerequisite: ARTE 321 and concurrent enrollment in EDU 324. Mrs. Sawtelle
Three credit hours

Biological Sciences

Professor Najarian (Chairman); Associate Professors Barker, Holmes, Kern, Riciputi, Schwinck; Assistant Professors Dorsey, Greenwood, Mazer, Mazurkiewicz.

A four-year program is offered in biological sciences. This program may be applicable to a Biological Science major in Secondary Education or a Biology major in Liberal Arts. Although the Liberal Arts major is designed for students desiring graduate work in biology, or students interested in going into medicine, dentistry, or veterinary science, the program can be modified to satisfy requirements in other aspects of life science and para-medical fields.

A Biological Science minor, requiring 18 credit hours in basic and advanced Biology, is available in Secondary Education.

Students who are in the Elementary or Kindergarten-Primary programs of the School of Education, and who are interested in the Biological Sciences, are referred to the Science Area program described in the section of the catalog dealing with Physical Sciences and Engineering. This program includes both physical and biological sciences and offers either an 18-hour academic minor or a 30-hour academic major for such students.

All students are reminded that, in addition to their meeting departmental requirements for a major leading to a baccalaureate degree, they must also meet the requirements of the school or college involved, as well as the University's General Education Requirements and the Physical Education Requirements. These requirements are printed inside the front cover of this catalog.

In addition to the General Education Requirements, students majoring in Biological Science in the Secondary Education program or Biology in the Liberal Arts program are required to take a minimum of 30 credit hours in Biology and a minimum of 29 credits in allied science. Liberal Arts Biology majors are also required to take a foreign language through the intermediate level.

REQUIREMENTS FOR A BIOLOGY MAJOR IN LIBERAL ARTS OR A BIOLOGICAL SCIENCE MAJOR IN SECONDARY EDUCATION

| | | <i>Credit hours</i> |
|---|---|---------------------|
| *MS 150 | Calculus I | 3 |
| PHYS 121 and 122 | General Physics (4 credits each semester) to be taken as a two-semester sequence | 8 |
| CHEM 113 and 114 | Chemical Principles (4 credits each semester) to be taken as a two-semester sequence | 8 |
| CHEM 251 and 252 | Organic Chemistry (3 credits each semester) to be taken as a two-semester sequence | 6 |
| CHEM 261 and 262 | Organic Chemistry Laboratory (2 credits each semester) to be taken as a two- semester sequence | 4 |
| **Foreign Language through Intermediate Level (Liberal Arts only) | | 0-14 |
| BIO 101 and 102 | Biological Principles (3 credits) plus Bio- logical Experiences (1 credit) to be taken together | 4 |

| | | |
|-----------------|---|---------|
| BIO 103 and 104 | Biological Diversity (3 credits) plus Survey of Animals and Plants (1 credit) to be taken together | 4 |
| BIO 201 | Principles of Genetics | 3 |
| BIO 203 and 204 | Developmental Biology (2 credits) plus Comparative Vertebrate Embryology (2 credits) to be taken together | 4 |
| BIO 311 and 312 | Microbiology (3 credits) plus Microbiological Laboratory (2 credits) to be taken together | 5 |
| Choice: | | |
| BIO 331 & 332 | Ecological Principles (2 credits) plus Field Ecology (1 credit) to be taken together | 3 |
| or | | |
| BIO 341 & 342 | Principles of Limnology (2 credits) plus Limnological Methods (2 credits) to be taken together | 4 |
| Choice: | | |
| BIO 401 & 402 | Mammalian Physiology (2 credits) plus Mammalian Physiology Laboratory (2 credits) to be taken together | 4 |
| or | | |
| BIO 411 & 412 | Plant Physiology (3 credits) plus Plant Physiology Laboratory (1 credit) to be taken together | 4 |
| or | | |
| BIO 451 & 452 | Comparative Physiology (2 credits) plus Experimental Physiology (2 credits) to be taken together | 4 |
| BIO 421 | Biology Seminar | 1 |
| BIO 431 | Biology Seminar | 1 |
| TOTAL: | | 59 - 73 |

*Students not prepared for MS 150 should precede this course with MS 140, Pre-Calculus Mathematics (3 credits).

**Credits to be earned depend upon the language proficiency of the student. Challenge examinations are available through the intermediate level.

COURSES IN BIOLOGICAL SCIENCES

| | |
|---|--------------------|
| BIO 101 Biological Principles | Staff |
| A study of the structure and function of cells and a consideration of multicellular organisms, in terms of heredity, evolution, and ecology. | |
| | Three credit hours |
| BIO 102 Biological Experiences | Staff |
| Laboratory studies of the structure, function, and reproduction of cells and the examination of representative animals and plants. Prerequisite: BIO 101, or concurrent with BIO 101. | |
| | One credit hour |
| BIO 103 Biological Diversity | Staff |
| Studies of the structure, function, and behavior of animals and plants. Prerequisite: BIO 101. | |
| | Three credit hours |
| BIO 104 Survey of Animals and Plants | Staff |
| Laboratory examination of the structure and function of representative animals and plants. Prerequisite: BIO 103, or concurrent with BIO 103. | |
| | One credit hour |
| BIO 111 Human Anatomy and Physiology | Mr. Kern |
| The structure and function of the human body. Prerequisite: BIO 101 recommended. | |
| | Three credit hours |
| BIO 112 Practical Human Anatomy and Physiology | Mr. Kern |
| Laboratory studies of the structures and functions of the human body, including microscopy and physiological experiments. Prerequisite: BIO 111, or concurrent with BIO 111. | |
| | One credit hour |

- BIO 201 Principles of Genetics** Miss Greenwood
A study of heredity through a discussion of the mechanism and control of gene action. Current research on the nature of mutations and the role of genes in development, behavior, and populations will be examined. Prerequisite: BIO 101. Three credit hours
- BIO 202 Experimental Genetics** Miss Greenwood
Practical laboratory experience in techniques used in genetics. Prerequisite: BIO 201, or concurrent with BIO 201. Two credit hours
- BIO 203 Developmental Biology** Miss Greenwood
A study of the embryology of several organisms, including man, and an analysis of the mechanisms which influence development. Current research in the fields of aging, regeneration, and metamorphosis will also be considered. Prerequisites: BIO 101. Two credit hours
- BIO 204 Comparative Vertebrate Embryology** Miss Greenwood
Laboratory experiments and observations on amphibian, chick, and mammalian embryos. Prerequisites: Bio 203 or concurrent with Bio 203. Two credit hours
- BIO 205 Evolution** Mr. Neuberger
A study of the processes and evidences of organic evolution. Three credit hours
- BIO 215 Vascular Botany** Mr. Barker
A study of the major groups of vascular plants with emphasis on morphology, life cycles, and ecology. Prerequisites: BIO 101, and BIO 103. Three credit hours
- BIO 216 Vascular Field Botany** Mr. Barker
Laboratory and field studies on the vascular plants of Maine. Prerequisites: BIO 215, or concurrent with BIO 215. One credit hour
- BIO 225 Non-Vascular Botany** Mr. Barker
A study of the major groups of non-vascular plants with emphasis on morphology, life cycles, and ecology. Prerequisite: BIO 101, BIO 103. Three credit hours
- BIO 226 Non-Vascular Field Botany** Mr. Barker
Laboratory and field studies on the non-vascular plants of Maine. Prerequisite: BIO 225, or concurrent with BIO 225. One credit hour
- BIO 251 History of Biology** Mr. Dorsey
A chronological survey of developments in biological investigations from earliest records to the present day. Emphasis will be placed on the methods of scientific discovery and the relationship between past milestones in biological investigations and modern understanding. Prerequisite: 9 credit hours in biology. Three credit hours
- BIO 292 Ornithology** Mr. Riciputi
The basic biology of birds: life histories, migration, behavior, and economic importance, with emphasis on species found in eastern North America. (Students supply their own binoculars or spotting scopes.) Prerequisite: BIO 101, or BIO 103. Two credit hours
- BIO 311 Microbiology** Mr. Holmes
A consideration of protozoa, fungi, bacteria, and viruses of biological and medical importance. Prerequisite: BIO 101, CHEM 114. Three credit hours
- BIO 312 Microbiological Laboratory** Mr. Holmes
The laboratory isolation and examination of micro-organisms by various techniques. Prerequisite: BIO 311, or concurrent with BIO 311. Two credit hours
- BIO 321 Histology** Mr. Holmes
A laboratory course which studies the microscopic anatomy of animal tissues and methods of preparing biological material. Prerequisite: BIO 101. Two credit hours
- BIO 331 Ecological Principles** Mr. Mazurkiewicz
The interrelationships of living organisms and their environments, including man's role as a modifier of ecosystems. Prerequisite: BIO 101. Two credit hours
- BIO 332 Field Ecology** Mr. Mazurkiewicz
Laboratory and field studies which demonstrate the basic concepts of ecology. (Numerous field trips.) Prerequisite: BIO 331, or concurrent with BIO 331. One credit hour
- BIO 341 Principles of Limnology** Mr. Mazurkiewicz
Geological, physical, chemical, and biological interrelationships of inland waters, including man's impact on these relationships. Prerequisite: BIO 101. Two credit hours
- BIO 342 Limnological Methods** Mr. Mazurkiewicz
Laboratory and field methods of investigating the ecological attributes and significance of inland waters. Prerequisite: BIO 341, or concurrent with BIO 341.

- BIO 351 Invertebrate Zoology** Mr. Najarian
The morphology, physiology, and phylogenetic relationships of non-backboned animals.
Prerequisite: BIO 101. Three credit hours
- BIO 352 Survey of Invertebrates** Mr. Najarian
Laboratory experience on the anatomy, physiology, and behavior of invertebrate animals. Prerequisite: BIO 351, or concurrent with BIO 351. One credit hour
- BIO 361 Parasitology** Mr. Najarian
The life histories and host-parasite relationships of animal parasites, with emphasis on those of men. Prerequisite: BIO 101. Two credit hours
- BIO 362 Parasitological Laboratory** Mr. Najarian
The morphology and life cycles of parasitic protozoa, helminths, and arthropods. Prerequisite: BIO 361, or concurrent with BIO 361. Two credit hours
- BIO 372 Biological Techniques** Mr. Dorsey
A survey of laboratory techniques used in Biology. (Not offered in 1972-73.) Prerequisite: BIO 101. Two credit hours
- BIO 381 Ichthyology** Mr. Riciputi
The structure, origin, evolution, natural history, classification, zoogeography, and economic importance of fishes, with particular emphasis on species found in the northeastern United States. Prerequisites: BIO 103, BIO 104. Two credit hours
- BIO 382 Field Ichthyology** Mr. Riciputi
Laboratory methods and techniques of collecting and identifying fishes. Extensive field-collecting at various habitats. Prerequisite: BIO 381, or concurrent with BIO 381.
- BIO 401 Mammalian Physiology** Mr. Mazer
Physiological processes in various mammalian species with emphasis on the integration of organ systems. Prerequisite: BIO 101, CHEM 252, CHEM 262. Two credit hours
- BIO 402 Mammalian Physiology Laboratory** Mr. Mazer
Laboratory experiments and observations on mammals. Prerequisite: BIO 401, or concurrent with BIO 401. Two credit hours
- BIO 411 Plant Physiology** Miss Schwinck
A study of the physiological activities of plants, and their growth and development as influenced by internal and external factors. Prerequisites: BIO 103, BIO 104, 1 year chemistry. Three credit hours
- BIO 412 Plant Physiology Laboratory** Miss Schwinck
Laboratory examination of phenomena in plant physiology. Prerequisite: concurrent with BIO 411. One credit hour
- BIO 421 Biology Seminar** Staff
Weekly oral reports and discussions by students and staff, on biological topics of current interest. Prerequisite: Biology seniors. One credit hour
- BIO 441 Problems in Biology** Staff
Independent library or laboratory studies on a special topic, as mutually arranged by instructor and student. Prerequisite: by arrangement. Credit arranged
- BIO 451 Comparative Physiology** Mr. Mazer
The physiological variations found in the animal kingdom. Emphasis will be on a working knowledge of functional biology. Prerequisites: BIO 101, CHEM 252, CHEM 262. Two credit hours
- BIO 452 Experimental Physiology** Mr. Mazer
Laboratory experiments and observations on the physiological processes of a wide spectrum of animals. Prerequisites: BIO 451, or concurrent with BIO 451. Two credit hours
- BIO 461 Cell Mechanisms** Mr. Holmes
A physico-chemical analysis of cell processes, with emphasis on mechanisms controlling growth, differentiation, and cell division. Prerequisites: BIO 101, CHEM 252. Three credit hours
- BIO 471 Elements of Bioengineering** Mr. Kirwin
A study of basic electrical and mechanical engineering techniques as they apply to biological systems; operating principles of apparatus for biological instrumentation. Prerequisite: BIO 101, PHYS 122. Three credit hours
- BIO 481 Cell Biology** Miss Schwinck
Structure and function of cells on the cellular, subcellular, and molecular levels. Prerequisites: BIO 101 and BIO 102 and CHEM 252 or CHEM 202 or instructor's permission. Three credit hours

Criminal Justice

Assistant Professor DONALD L. DAHLSTROM, Director
Assistant Professor RICHARD L. THAYER, JR.

PROGRAM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN CRIMINAL JUSTICE

The Criminal Justice Program leading to a baccalaureate degree is a complete four-year program with major concentration patterns in Political Science, Sociology, and Criminal Justice sequences. The program is designed to permit each student to select a 36-hour core curriculum sequence in addition to completing all University requirements for the degree.

In addition, two academic-credit Criminal Justice Certificate programs, basic and advanced, are offered in cooperation with the Continuing Education Division (see note below). The certificate programs are designed to meet the specific needs of those students who are interested in improving their professional qualifications in areas directly related to the criminal justice system.

The objective of these programs is to provide a basis for examining various activities concerned with the process of criminal justice. Students will receive a broad liberal education in conjunction with their concentration upon specialized areas involved within the criminal justice system.

All students must elect a Criminal Justice Program major sequence:

- (1) Criminal Justice Major with a Political Science Sequence
- (2) Criminal Justice Major with a Sociology Sequence
- (3) The Criminal Justice Sequence

All Criminal Justice Program majors must complete the basic core curriculum:

| | | |
|--------|------------------------------------|---|
| CJ 101 | Introduction to Criminal Justice | 3 |
| CJ 110 | Criminal Law | 3 |
| CJ 120 | Criminal Evidence | 3 |
| CJ 201 | Administration of Criminal Justice | 3 |
| CJ 315 | Police and the Community | 3 |
| CJ 316 | Police-Community Practicum | 3 |
| CJ 425 | Scope of Criminal Justice | 3 |

Criminal Justice Majors with a Political Science Sequence will also be required to complete:

| | | |
|---------|-------------------------------|---|
| POL 101 | Introduction to Government I | 3 |
| POL 102 | Introduction to Government II | 3 |
| POL 233 | The American City | 3 |
| POL 283 | The American Judicial System | 3 |
| POL 284 | American Civil Liberties | 3 |

Criminal Justice Majors with a Sociology Sequence will be required to complete the core courses together with the following courses if regularly scheduled; or Sociology Sequence substitution may be arranged in consultation with the Director.

| | | |
|---------|---------------------------------|---|
| SOC 101 | Introduction to Sociology | 3 |
| SOC 350 | Sociology of Urban Life | 3 |
| SOC 370 | Social Problems | 3 |
| SOC 371 | Race and Culture Conflict | 3 |
| SOC 373 | Criminology: The Adult Offender | 3 |

The Criminal Justice Majors Sequence will require the core courses together with an additional 15 hours of credit to be selected from the following:

| | | |
|--------|--|---|
| CJ 102 | Police Administration & Personnel | 3 |
| CJ 130 | Criminal Investigation | 3 |
| CJ 135 | Police Operations | 3 |
| CJ 140 | Criminal Information & Records Systems | 3 |
| CJ 202 | Advanced Police Administration | 3 |
| CJ 210 | Police Role in Social Aspects of Crime | 3 |
| CJ 390 | Research in Criminal Justice | 3 |

Elective courses in areas related to any Criminal Justice major sequence may be selected in consultation with the student's faculty advisor. Ordinarily, each student will be expected to complete from 12-18 hours of related advanced courses.

NOTE: CRIMINAL JUSTICE CERTIFICATE PROGRAMS

Additional information may be obtained from the Certificate Program brochure available through C.E.D. or Criminal Justice Program Offices. In addition, each certificate candidate who is not immediately qualified to meet university entrance requirements is strongly urged to contact the C.E.D. office and arrange for a Deferred Degree Program interview.

COURSE DESCRIPTIONS

CJ 101 Introduction to Criminal Justice

Mr. Dahlstrom

An introduction to the philosophic basis and historic development of the American criminal justice system. Focus upon the role of the various components involved with due process: law enforcement, the judicial system, and corrections. Special attention will be given to basic terminology and definitions.

Three credit hours

CJ 102 Police Administration and Personnel

Mr. Thayer

A survey of organizational and administrative principles as they relate to the contemporary law enforcement agency. Areas under examination include: structure, line and staff functions, and operational techniques. In addition, the basic principles of budgeting, controlling, coordinating, planning and research will be examined with special emphasis on personnel selection and evaluation. (Offered in 1972-73 only by the Continuing Education Division)

Three credit hours

CJ 110 Criminal Law

Staff (lawyer)

An undergraduate introduction to substantive criminal law. General doctrines of criminal liability, corpus delicti and legal classification of crimes against persons, property, and the public welfare. Emphasis on the concept of governmental sanction of individual conduct. (Offered in 1972-73 only by the Continuing Education Division)

Three credit hours

CJ 120 Criminal Evidence

Staff (lawyer)

An introduction to the rules of criminal evidence and the admissibility of evidence under the rule of law. Areas include: arrest, interview, search and seizure. Emphasis upon criminal justice procedure and the presentation of physical, documentary and testimonial evidence. (Offered in 1972-73 only by the Continuing Education Division)

Three credit hours

CJ 130 Criminal Investigation

Mr. Thayer

An introduction to the theory and practice of criminal investigation. The scientific and analytical evaluation of factual data derived from persons and things. A non-laboratory course with some emphasis on personal identification theories. Prerequisite: CJ 120. (Offered in 1972-73 only by the Continuing Education Division)

Three credit hours

CJ 135 Police Operations

Staff

Theories or organization and management as they relate to law enforcement field operations; An analysis of the effectiveness of two major police functions, patrol and traffic management, are examined within an administrative framework of purpose, type and application. The future of police field operations is considered.

Three credit hours

CJ 140 Criminal Information and Records Systems

Mr. Thayer

The organization and administration of criminal information systems with emphasis upon design, maintenance, storage and retrieval of police records. Focus will be upon the use of data to serve operational needs for the administration of police services. In addition, methods of gathering intelligence information will be emphasized. (Not offered in 1972-73)

Three credit hours

CJ 201 Administration of Criminal Justice

Mr. Dahlstrom

An in-depth study of the administration of criminal justice in the United States. Selected topics demonstrating the function and purpose of various components effecting the administration of justice. The procedures associated with criminal justice will receive critical and constructive examination. Prerequisite: CJ 101.

Three credit hours

CJ 202 Advanced Police Administration

Mr. Thayer

An advanced study of supervision and leadership requirements with some focus upon comparative examination of selected police systems throughout the world. Emphasis on advanced management theory and practices as they apply to the administration of police services. Prerequisite: CJ 102 or instructor's permission. (Offered in 1972-73 only by the Continuing Education Division)

Three credit hours

CJ 210 Police Role in Social Aspects of Crime

Staff

The police service's role in dealing with behavior defined as deviant and/or delinquent. Emphasis given to the significance of public policy in relationship to "victimless crimes." The handling of social and inter-personal problems by legal agents with discretionary power will be a feature of this course. (Not offered in 1972-73)

Three credit hours

CJ 315 Police and the Community

Mr. Dahlstrom

A study of the police service's role and responsibility within the community. Focus will be on the identification of groups existing within the community and how they relate to the police. Emphasis will be upon the organization and effectiveness of public information and crime prevention efforts. (Offered in 1972-73 only by the Continuing Education Division)

Three credit hours

CJ 316 Police: Community Practicum

Mr. Dahlstrom/Staff

A community laboratory designed to provide first-hand perspectives on the police role. Activities include assignments and discussion based upon observation and evaluation of selected community service agencies and their interrelationship with the police service. Directed field work experience is a feature of this course. Prerequisite: CJ 315 or instructor's permission.

Three credit hours

CJ 390 Research in Criminal Justice

Mr. Dahlstrom/Staff

An independent or organized group research project or activity. May only be repeated once. Prerequisite: the director's permission.

One-three credit hours

CJ 425 Scope of Criminal Justice

Mr. Dahlstrom

A seminar designed for senior criminal justice majors. Focus will be upon the inter-relationship of the student's educational experience to major issues in criminal justice. Emphasis on the interdisciplinary perspective of criminal justice will be a feature of this course. Open to senior criminal justice majors or with the instructor's permission.

Three credit hours

Dance

Associate Professor Goodwin.

Dance instruction is offered through "The Modern Dance Group." Students engage in lecture-demonstrations and developmental activities and present programs to collegiate and local civic-community organizations. Interested students, with or without experience, should meet with the instructor and register under one of the DNCE numbers.

COURSE DESCRIPTIONS

DNCE 300 Contemporary Dance I

Miss Goodwin

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

One credit hour

DNCE 301 Contemporary Dance II

Miss Goodwin

A continuation of DNCE 300.

One credit hour

DNCE 302 Contemporary Dance III

Miss Goodwin

A continuation of DNCE 301.

One credit hour

DNCE 303 Contemporary Dance IV

Miss Goodwin

A continuation of DNCE 302.

One credit hour

Economics as a Major

In a Program

Leading to a Bachelor of Arts Degree

And in a Program

Of the School of Education

Leading to a B.S. in Ed. Degree

Students interested in receiving a Bachelor of Arts degree in Economics will be required to complete the same requirements as for the Bachelor of Science degree in Economics described under the "School of Business and Economics" section of this catalog, except that students in the Bachelor

of Arts program may not take more than 42 hours of Economics courses or 21 hours of Business courses for credit toward a Bachelor of Arts degree.

Students in the School of Education may also obtain an academic major or minor in Economics in a program leading to the degree of Bachelor of Science in Education, as described in this catalog in the section dealing with the School of Business and Economics. For students in Secondary Education a Social Science Area Major with Concentration in Economics is also available, as described in the section of the catalog dealing with the Liberal Arts department of Geography-Anthropology.

All students are reminded that, in addition to their meeting departmental requirements for a major leading to a baccalaureate degree, they must also meet the requirements of the school or college involved, as well as the University's General Education Requirements and the Physical Education Requirements. These general requirements are printed inside the front cover of this catalog.

English

Professors Bernard, Hanna, Rutherford (Chairman), Weeks; Associate Professors Baier, Burke, Coffin, Jaques, Lewisohn, Reuter, Rosen, Slavick; Assistant Professors Carner, Carper, O'Reilly, Selkin, Vincent, Wilson, Wolf; Instructor Milliken.

Major Programs in English

Undergraduates desiring to major in English may do so in either the Bachelor of Arts program of the College of Liberal Arts or under several programs leading to the degree of Bachelor of Science in the School of Education.

All students are reminded that, in addition to their meeting departmental requirements for a major leading to a baccalaureate degree, they must also meet the requirements of the school or college involved, as well as the University's General Education Requirements and the Physical Education Requirements. These general requirements are printed inside the front cover of this catalog.

LIBERAL ARTS OR SECONDARY EDUCATION REQUIREMENTS FOR MAJORS

English majors enrolled in the College of Liberal Arts program or in the Secondary Education program of the School of Education are required to complete 36 credit hours in English courses or, to the extent of not more than 12 credit hours, related courses offered in other departments and approved by the English Curriculum Committee. (The attention of English majors is directed to those courses given by the Foreign Languages and Classics Department in which non-English literature is read in translation.)

Students with majors or minors in English, including both those in the baccalaureate program of the College of Liberal Arts and also those in the Secondary Education program of the School of Education, must achieve at least six credits with grades of B or better in their major or minor in English. No grades of D will count toward fulfillment of the major or minor requirements.

Each student must complete three of the required 36 credit hours in the production of a major paper or project approved by two faculty members, one chosen by the student, the other by the Department Curriculum Committee after consultation with the student. These three hours (ENG 400) shall be taken in the senior year in a guided program.

Each student is expected to fulfill the following minimum requirements: a period course, a major-figure course, a genre course; in addition, each is expected to complete a course in American literature, in English literature before 1600, in English literature of the period 1600-1800, and in English literature since 1800. Any appropriate course, however, may satisfy more than one of these distributive requirements. These requirements may be waived if a student submits an alternative program acceptable to the Department Curriculum Committee.

To meet state certification requirements, all English majors in secondary education are also required to take one course in Shakespeare (ENG 238, 241, 242, 243 or 244) and History of the English Language (ENG 380).

ENGLISH MINOR PROGRAM IN SECONDARY EDUCATION

Secondary Education students in the School of Education may meet the requirements for a minor in English which will consist of 18 hours of English courses which meet the distributive requirements of the major (see above).

REQUIREMENTS FOR ACADEMIC MAJORS AND MINORS IN KINDERGARTEN-PRIMARY AND ELEMENTARY EDUCATION

Students in Elementary Education or Kindergarten-Primary Education in the School of Education may complete 30 hours of English in an approved program for an academic major or 18 approved hours for an academic minor. Details of such programs may be obtained from the appropriate faculty advisors in the School of Education.

COURSE DESCRIPTIONS

ENG 001 Writing Laboratory

Staff

Intended for the use of any student with a writing problem at any time in the college career. The laboratory will be run and supervised by the regular English staff with the help of advanced students.

No credit

ENG 100 College Writing

Staff

An introductory course in writing at the college level. The course will deal with such matters as organizations, strategy, tone, and logic. Note: This course is in no way remedial, and offers graduation credit, but not major or humanities credit.

Three credit hours

ENG 120 Introduction to Literature

Staff

Each section of this course offers a program designed to introduce students to the study of literature. The sections vary greatly from one another; information about their programs for each semester can be obtained in the English office. No prerequisites. Typical sections may have to do with: The Modern Sensibility; Literary Masterpieces; The Major Genres; Interpretive Approaches to Literature; Understanding and Appreciating Literature; An Approach to Critical Reading; Sharing the Author's Vision; Poetry of England and America.

Three credit hours

ENG 150 Topics in Literature

Staff

A wide selection of courses, dealing with this general subject and varying in content from term to term, is offered each semester. Descriptions of current offerings are available in the English office. These courses may be offered in a two-semester sequence, and more than one section may be taken for degree credit. No prerequisites. Typical sections may have to do with: The Epic; American Literature; The Literature of Alienation; Pop Semantics; The English Bible; European Literature from Homer to Dante; The Nature of Poetry; Indians and Black Men; the Short Novel; Literature and Insanity; The Politics of Literature.

Three credit hours

- ENG 200 Poetry Workshop** Mr. Rosen
The practice of writing poetry. Class discussions of manuscript poems and conferences with instructor. (Not offered in 1972-73) Three credit hours
- ENG 202 Poetry Workshop I** Mr. Rosen
An intensive study of poetic forms and techniques, with extensive discussion of the students' own poetry. Emphasis on understanding various techniques through reading and imitation. No prerequisites. Three credit hours
- ENG 203 Poetry Workshop II** Mr. Rosen
Continuation of ENG 202 with emphasis on trends in contemporary poetry and on the students' own creative writing ability. Three credit hours
- ENG 204 Advanced Writing** Mr. Vincent
For students desiring to gain increased proficiency in writing. Study of various forms of discourse, but with concentration on exposition. Considers such aspects of writing as persona, appeal to reader, style, logic, strategy. (Not offered in 1972-73) Three credit hours
- ENG 205 Creative Writing** Mr. Vincent
An advanced course. Focus is on the writing of a short story; includes a study of plot, design, point of view, characterization, tension and related techniques, modes of creative thinking, and the transformation of experience into the medium of story. Prerequisite: Consultation with instructor. (Offered in 1972-73 only by the Continuing Education Division) Three credit hours
- ENG 210 Expository Writing** Mr. Jaques
Primarily for juniors and seniors majoring in Business Administration. Training in clear expository writing of formal reports, business communications, and related materials (Not offered in 1972-73) Three credit hours
- ENG 220 Old English** Mr. Coffin
The student develops Old English reading ability by working with the best Old English poems and prose. Modern techniques of rapid language acquirement are used. Prerequisite: sophomores or above. Three credit hours
- ENG 221 Beowulf** Mr. Coffin
This Old English poem is studied as the greatest literary work of the first 600 years of English Literature. Partially in modern English. Prerequisite: ENG 220. Three credit hours
- ENG 224 Chaucer** Mr. Burke
Selections from the major poetry, with attention to the literary and historical background. Three credit hours
- ENG 225 Chaucer and the Middle Ages** Mr. Weeks
The central emphasis of the course will be Chaucer's *Canterbury Tales* which will be read in its entirety. To develop a broader and deeper understanding of the late Middle Ages there will be further readings in the medieval romance, especially the Matter of Britain, and in Chaucer's contemporaries, the *Pearl* poet and William Langland. Prerequisite: ENG 120. Three credit hours
- ENG 226 Medieval Epic and Romance** Mr. Selkin
Readings chosen from among translations of Beowulf, The Song of Roland, The Song of the Nibelungs, The Laxdaela Saga and other Icelandic works, The Poem of The Cid, various works of Chrétien de Troyes and Wolfram von Eschenbach, Tristan and Iseult, and others. (Not offered in 1972-73) Three credit hours
- ENG 230 16th Century Poetry** Mrs. Wolf
Poetry of the sixteenth century with some emphasis on the lyric. (Not offered in 1972-73) Three credit hours
- ENG 231 16th Century Prose and Verse** Mr. Bernard
The prose and the non-dramatic poetry of the 16th century. Major authors of the Tudor Age (1485-1603) in their cultural setting, from Skelton to Donne. Prerequisite: permission of instructor. Three credit hours
- ENG 232 Spenser** Mr. Bernard
Readings in the works of Edmund Spenser with special emphasis on *The Faerie Queene*. (Not offered in 1972-73) Three credit hours
- ENG 236 Pre-Shakespearean Drama** Mr. Bernard
Medieval drama in England to 1590. The evolution of secular drama from its religious origins through the achievement of Marlowe. Prerequisite: permission of instructor. (Not offered in 1972-73) Three credit hours
- ENG 238 Shakespeare's Earlier Works** Mrs. Wolf
Shakespeare's histories, comedies, sonnets. Emphasis will be placed on development of themes, such as order/disorder; ideals of personality; and states of being. Prerequisite: two semesters of English. Three credit hours

- ENG 241 Shakespeare's Later Plays** Mrs. Wolf
A continuation of ENG 238. This semester concentrates on the problem plays and tragedies. Three credit hours
- ENG 242 Shakespeare: Representative Plays and Genres I** Mr. Vincent
A study of representative plays. Selections from among the following: the histories, with emphasis on the Lancastrian epic; the Roman plays; the comedies — farce, romantic comedy, problem play, romance; and tragedies. Discussion of the Elizabethan stage, textual problems. Shakespeare's style, etc. Background reading and a critical paper. (Not offered in 1972-73) Three credit hours
- ENG 243 Shakespeare: Representative Plays and Genres II** Mr. Vincent
A continuation of ENG 242. (Not offered in 1972-73) Three credit hours
- ENG 244 Shakespeare: Special Studies** Mr. Reuter
A study of allegorical elements in selected plays. Three credit hours
- ENG 245 Elizabethan Prose and Verse** Mr. Bernard
Major and representative non-dramatic writers, in relation to their cultural background, 1557-1600. Prerequisite: permission of instructor. (Not offered in 1972-73) Three credit hours
- ENG 246 British Drama to 1642** Mr. Bernard
Shakespeare's predecessors, contemporaries, and followers to 1642. Prerequisite: permission of instructor. (Not offered in 1972-73) Three credit hours
- ENG 249 17th Century Prose and Verse**
Section A Mr. Baier
Major and representative non-dramatic writers (exclusive of Milton) in relation to their cultural background, 1600-1660. Three credit hours
Section B Mr. Reuter
A study of major non-dramatic writers of the 17th century exclusive of Milton and Dryden. Included will be Bacon, Donne, Jonson, Burton, Hobbes, Herrick, Herbert, Vaughan, Marvell, Suckling, Crashaw, Carew, Browne, Traherne, Bunyan, Pepys. Three credit hours
- ENG 250 Milton**
Section A Mr. Baier
The poetry and the prose, with attention to the literary and historical background. Three credit hours
Section B Mr. Reuter
A study of all Milton's English poetry with readings in *Christian Doctrine* and other prose selections as background. Three credit hours
- ENG 262 Restoration and Early 18th Century Prose and Poetry** Mr. Weeks
An exploration of representative writings of the English Neo-classical period as an attempt to understand the cultural climate that developed after the restoration of the monarchy. Readings in Dryden, Swift, Pope, Gay, Addison, and Steele. Three credit hours
- ENG 263 The Age of Johnson and Blake:** Mr. Selkin
Literature of the Mid and Late 18th Century
Johnson and Boswell and their circle, poetry from Smart and Collins to Burns and Blake, and other works of the period. Prerequisite: at least one previous course in literature is recommended, but not required. Three credit hours
- ENG 264 Swift** Mr. Selkin
A study of Swift and his poetry and prose — imaginative, political, personal, satiric, and even "unprintable." Enrollment limited to 20, except with permission of instructor. Prerequisite: previous work in 17th and/or 18th century recommended, but not required. Three credit hours
- ENG 266 Restoration Drama** Mr. Reuter
A study of Restoration and early 18th Century drama with emphasis on innovations in the post-Elizabethan theatre and on changing definitions of the tragic and comic hero. Playwrights studied will include Davenant, Dryden, Otway, Etherege, Shadwell, Cibber, Wycherley, Congreve, Farquhar. (Not offered in 1972-73) Three credit hours
- ENG 267 The Rise of the Novel** Mr. Reuter
A study of the roots of the novel in English and Continental fiction. Three credit hours
- ENG 268 The Earlier English Novel** Mr. Bernard
The principal novelists from the beginnings to Sir Walter Scott. Prerequisite: permission of the instructor. Three credit hours

ENG 270 Political Writers of 18th Century England

Mr. Weeks

Certain writers of the period 1660-1800 have rightful claim to our attention on the score of their political as well as their imaginative writings. Thomas Hobbes and John Locke split the political, social (even religious) thought of the 18th century into two armed camps. Swift was a hack writer, first for the Whigs, then the Tories; Burke's *Conciliation* speech used to be standard "patriotic" reading in American schools. Thomas Paine, some say, ignited the flame of the American Revolution. Readings in Hobbes, Locke, Halifax, Swift, Arbuthnot, Wilkes, Burke, Paine.

Three credit hours

ENG 271 English Satire and its Classical and Medieval Backgrounds

Mr. Weeks

A brief but thorough survey of principal Greek and Roman satirists for the purpose of discovering and defining the origins of this important genre; a reading of at least one medieval satire, probably Erasmus' *Praise of Folly*, all preliminary to a thorough study of the major works of Dryden, Swift, and Pope.

Three credit hours

ENG 273 The Poetry of Alexander Pope

Mr. Weeks

A close study of the most brilliant poet between Milton and Wordsworth. Alexander Pope dominated English poetry for half a century but his most significant works often become lost in anthologies and period courses. Minimum readings will include a sampling of the pastorals, *Essay on Criticism*, *Rape of the Lock*, *Eloisa to Abelard*, selections from *Martin Scriblerus*, the Moral Essays, and the *Dunciad*. Prerequisite: ENG 120 or comparable introductory course. (Not offered in 1972-73)

Three credit hours

ENG 275 Poetry in the Age of Sensibility

Mr. Carper

Readings in the significant poets of the later Eighteenth Century, with particular attention to Thompson, Gray, Collins, Cowper, and Smart. (Not offered in 1972-73)

Three credit hours

ENG 281 Poetry of the Romantic Period

Mr. Carper

Characteristic works of the major romantic poets will be studied; particular attention will be given to Wordsworth and Keats. (Not offered in 1972-73)

Three credit hours

ENG 282 William Blake

Mr. Carner

Examination of Blake's writings and visual art, attempting to develop a comprehensive understanding of Blake's system and intellectual contexts. Prerequisites: Junior class standing and at least 15 hours in literature or permission of instructor.

Three credit hours

ENG 283 Coleridge

Mr. Carner

Readings in Coleridge's prose and poetry; includes Shakespeare criticism, *Biographia Literaria*, and *Remorse*. Coleridge as poet, critic, psychologist, and philosopher. Prerequisite: Junior class standing and at least 15 hours in literature or permission of instructor. (Not offered in 1972-73)

Three credit hours

ENG 284 The Lyric in the Romantic Era

Mr. Carner

Readings in the shorter poetry of major and minor Romanticists, including Blake, Coleridge, Wordsworth, Byron, Keats, Shelley, Beddoes, Peacock, Hunt, Landor, and others. Attempt to discover varieties of Romantic myth. Prerequisite: completion of Humanities requirement. (Not offered in 1972-73)

Three credit hours

ENG 285 The Epic in the Romantic Era

Mr. Carner

A continuation of the Romantic Lyric. A study of long poems by major Romantic poets: Blake's *Milton*, Wordsworth's *Prelude*, Coleridge's *Rime of the Ancient Mariner* and *Biographia Literaria*, Keats' *Hyperion* poems, Shelley's *Prometheus Unbound*, Byron's *Don Juan*. Prerequisite: ENG 284 or permission of the instructor. (Not offered in 1972-73)

Three credit hours

ENG 286 Fiction in the Time of Jane Austen

Mr. Carner

The novels of Jane Austen; readings in Maturin, Peacock, Edgeworth, Lewis, Godwin, Mary Shelley, Scott. Prerequisite: fulfillment of Humanities requirement.

Three credit hours

ENG 291 19th Century Controversialists

Mr. Hanna

The critical and controversial writings of Carlyle, Newman, Mill, Arnold, Huxley, Ruskin, Morris, Wilde, and Pater. Background reading in the moral and spiritual dilemmas facing the Victorian respectability and aestheticism. Special projects in Victorian dynamism, the Victorian "temper," and "the Victorian compromise." Oral reports and short critical papers. (Not offered in 1972-73)

Three credit hours

ENG 293 From Pre-Raphaelitism to the Bloomsbury Group

Mr. Wilson

This course will study the poetry, novels, paintings, and criticism of the Pre-Raphaelites, John Ruskin, William Morris, Art Nouveau, the Beardsley period, and the Bloomsbury Group. (Not offered in 1972-73)

Three credit hours

ENG 296 Tennyson and Browning

Mr. Hanna

A wide-ranging investigation of the poetry of two major Victorian figures, Tennyson and Browning, who contrast dramatically as spokesmen for the nineteenth-century Eng-

lishman's inner and outer world. A paradox closely examined: despite the universal appeal of both poets, they share little in technique, "voice," and philosophy. Answers may be sought in a close reading of the poems chronologically arranged, and in the various cultural conflicts of the Industrial Revolution: Utilitarianism, the science-religion debate, artistic alienation. Special projects will be assigned on such topics as the poets' uses of myth and symbol, the decline of tragedy in an age of disbelief, and the "Victorian compromise." Oral reports and short critiques. No prerequisites. Three credit hours

ENG 297 The Later English Novel

Section A

The principal novelists from Jane Austen to Thomas Hardy. Prerequisite: permission of instructor. Mr. Bernard
Three credit hours

Section B

The monumental works of those novelists largely responsible for England's high-water mark in 19th century world literature: Thackeray, Dickens, the Brontës, George Eliot, Meredith, Hardy, and James. Close structural analysis of the novels and artifacts; thematic analysis of the novels as dramatizations of Victorian dilemma, moral and spiritual. Oral reports and short written critiques. Mr. Hanna
Three credit hours

ENG 301 Irish Renaissance

The late 19th and 20th century renewal in Irish literature including Yeats, Synge, Lady Gregory, Joyce, O'Donnell, O'Connor, O'Faolain, O'Casey, and O'Flaherty. (Not offered in 1972-73) Mr. Slavick
Three credit hours

ENG 302 20th Century Poetry in English to 1945

The major poets writing in English in this period, including Yeats, Eliot, and Stevens. Mr. Lewisohn
Three credit hours

ENG 303 20th Century Poetry in English since 1945

A study of recent poetry, with particular emphasis given to current American writing. (Not offered in 1972-73) Mr. Lewisohn

ENG 304 20th Century British and American Poetry

A close study of the major poets of the 20th century. Pound, Eliot, Yeats, and Hopkins will be studied. In addition to class study in selected poets, students will read in other major poets not included above and will give class reports on them. Mr. O'Reilly
Three credit hours

ENG 305 20th Century British and American Poetry

A continuation of ENG 304. Stevens, Crane, Williams, Lowell, Thomas, and Auden will be studied. Mr. O'Reilly
Three credit hours

ENG 306 Joyce's *Dubliners*, *Portrait*, and *Ulysses*

A first trip, unencumbered by scholarly and critical baggage, into the immense Joycean world. Movement through the three major works will be empirical and inductive. Sights, smells, sounds — all modes of perception will be heightened and clarified through class discussion of Joyce's ends and his seemingly inexhaustible means. Except for a side trip now and then into the abstruse or arcane, guidelines will be simple. To satisfy intellectual curiosity and enrich class discussion, each participant will be solely responsible for only one critical commentary selected from among Joyce's twenty leading expositors. Regular oral reports; six short critiques. Prerequisite: previous reading of *Dubliners* or *Portrait of the Artist as a Young Man*. (Not offered in 1972-73) Mr. Hanna
Three credit hours

ENG 307 Modern Short Story

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

ENG 308 Modern Novel

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

- ENG 309 The Southern Renaissance** Mr. Slavick
The post-World War I flowering in Southern letters: The Fugitive poets and the fiction of Heyward, Wolfe, Faulkner, Elizabeth Madox Roberts, Tate, Gordon, Porter, Agee, Warren, Welty, McCullers, Richard Wright, Peter Taylor, Flannery O'Connor, and Walker Percy. (Not offered in 1972-73) Three credit hours
- ENG 310 The Fugitive Poets** Mr. Burke
Studies in the poetry of the Southern Renaissance. Three credit hours
- ENG 311 Twentieth Century British Literature** Mr. Wilson
Selected novels, plays, poetry from the late 19th century to the present. The course will study naturalism, impressionism, and symbolism, as well as the political and existential implications of British literature of the twentieth century. No prerequisites. Three credit hours
- ENG 312 The Image of the Black Man in American Literature** Mr. Slavick
A study of the developing image of the black man in American prose and poetry in the context of American culture from stereotype to victim, outsider, masked man, and Everyman. Douglass, Stowe, Melville, Twain, Whitman, Cable, Chesnutt, DuBois, Heyward, McKay, Cullen, Hughes, James Weldon Johnson, Faulkner, Toomer, Wright, Ellison, Warren, Welty, Tolson, Styron, Baldwin, Leroi Jones, Martin Luther King, Malcolm X, and Cleaver. (Not offered in 1972-73) Three credit hours
- ENG 326 Fitzgerald, Hemingway, and Faulkner** Mr. Slavick
Studies in the fiction of three 20th century American writers. Three credit hours
- ENG 330 Medieval Literature** Staff
In-depth study of medieval literature Three credit hours
- ENG 342 American Literature** Mr. Jaques
American literature through the 18th and 19th centuries, with emphasis on the principal writers. (Not offered in 1972-73) Three credit hours
- ENG 343 American Literature** Mr. Jaques
A continuation of ENG 342. (Not offered in 1972-73) Three credit hours
- ENG 344 American Renaissance** Mr. O'Reilly, Mr. Jaques
Major American writers of the mid-19th century. Includes critical study of major works of Emerson, Thoreau, Hawthorne, Melville, and Whitman, and some attention to the social and literary backgrounds. (Not offered in 1972-73) Three credit hours
- ENG 345 Thoreau** Mr. Jaques
An intensive critical study of the major works of Henry David Thoreau with attention to the social and literary backgrounds of his art. Three credit hours
- ENG 348 The American Novel** Mr. Burke
The novel from Brown to James. Three credit hours
- ENG 349 The American Novel** Mr. Burke
A continuation of ENG 348. From Crane to the present. Three credit hours
- ENG 351 Backgrounds of American Thought** Mr. Burke
Readings in the ideas and lives of those figures who were philosophically influential in American life. No prerequisites. (Not offered in 1972-73) Three credit hours
- ENG 355 Major Figures in American Literature** Mr. O'Reilly, Mr. Jaques, Mr. Milliken
In-depth study of one or two major authors at the discretion of department and instructor. Specific authors and topics will be announced. Three credit hours
- ENG 358 Melville, Twain, and James** Mr. Slavick
Short stories and novels of the major American fiction writers of the last half of the 19th century, all of whom reflect, variously, the cultural crises of the time. (Not offered in 1972-73) Three credit hours
- ENG 360 Autobiography** Mr. Carper
The course traces the development of writing about oneself, with special attention to the autobiographies of the romantic period. (Not offered in 1972-73) Three credit hours
- ENG 362 Poetry in English: A Survey** Mr. Carper
A study of representative English and American poets in major periods from Chaucer's to our own. (Not offered in 1972-73) Three credit hours
- ENG 364 Critical Approaches to Literature** Mr. Wilson
This course will provide a basic introduction to the major critical interpretive perspectives indispensable for the sensitive reader (i.e., moral-philosophical, formalistic, psychological, mythological, archetypal, and exponential). It will be structured around a close reading of specific works from several genres. It will also study literary terms, prosody, prose style and the relation of literature to the other arts. Three credit hours
- ENG 366 Literature and the Visual Arts** Mr. Wilson
This course will examine in chronological sequence the relationship between leading English writers or schools and the movements in European painting, architecture, and sculpture to which they most closely correspond. (Not offered in 1972-73) Three credit hours

ENG 367 Topics in Literary Criticism

Mr. Carner

Studies in specific problems or historical movements in literary criticism. Topics will change from year to year, and prerequisites will vary with topics. Topic for 1972-73 will be myth and myth criticism, a study of ancient and modern myth systems including Biblical, medieval, and 20th century texts. A good portion of the first semester will be devoted to psycho-analytic theory as myth. Typical texts: *Genesis*, *Exodus*, *Apocalypse*, Grimm's *Fairy Tales*, *The Golden Bough*, *Totem and Taboo*, *Moses and Monotheism*, and *The Myth of the Birth of the Hero*.

Three credit hours

ENG 369 Introduction to Literary Criticism

Mr. Carner

The major methods of modern criticism, problems in aesthetics — intention, expression, relation of literature to other areas of study. Readings in ancient through modern critics, concentrating on the 20th century. Prerequisite: Junior standing and five courses in literature or permission of instructor.

Three credit hours

ENG 372 Greek Epic, Tragedy, and Comedy

Mr. Hanna

Homer's *Iliad* and *Odyssey*; heroic poetry as a reflection of Aegean civilization, of arms and the man, of myth and legend, of social, economic, and literary values. Fifteen tragedies by Aeschylus, Sophocles, and Euripides — their origin, and development, staging and production, structure and technique. Aristotle's *Poetics* and components of tragedy. Three comedies by Aristophanes — their structure, thought, tone, and style. Virgil's *Aeneid* and its indebtedness to the Homeric tradition. Oral reports, class discussion, short critical papers.

Three credit hours

ENG 373 Poetry and the Religious Experience

Mrs. Wolf

Analysis of the process of literary creativity, with special emphasis on the relationships among literary forms and philosophy, religion, and criticism. Intensive reading of selected texts.

Three credit hours

ENG 374 Writers of Maine

Mr. Jaques

Historical and literary analysis of writers in and about Maine. The emphasis will be on the literary quality of the best-known writers and the place in history both past and present of the lesser-known writers. Extra credit in the course will be given for a report about any off-campus project related to an author, especially a study of an author and a particular locality in Maine. No prerequisite for non-majors; majors should have already taken a survey of American literature; prospective teachers will prepare an annotated bibliography of one author of their choice.

Three credit hours

ENG 376 Chaucer, Swift, e. e. cummings

Mr. Selkin

A study of three poets of different eras who share much, including wit, clarity, mastery of language, and the combination of abounding love and fierce indignation. Some subsidiary readings may be done in such writers as Skelton, Marvell, Herrick, Gay, and Graves. (Not offered in 1972-73)

Three credit hours

ENG 380 History of the English Language**Section A**

Mr. Rutherford

Main aspects of the development of Modern English from Old and Middle English; words and their backgrounds; changes in sound, form, and meaning. Prerequisite: permission of the instructor.

Three credit hours

Section B

Mr. Bernard

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

Three credit hours

ENG 381 Modern Grammars

Mr. Rutherford

Designed to acquaint students with the three most common forms of English grammatical analysis: traditional, structural, and transformational. The mechanics of the various analyses will be examined, and comparisons will be made to determine what tentative combination best explains the structure of English. Students in secondary education will focus on practical classroom applications.

Three credit hours

ENG 382 Introduction to Linguistics

Mr. Rutherford

A general introduction to modern linguistic science, including studies in the development of language, phonology, morphology, the dictionary, and varieties of English and usage. Also examined are the various grammatical philosophies and their methods — traditional, structural, and transformational. (Not offered in 1972-73)

Three credit hours

ENG 384 Structural Linguistics and Culture

Mr. Coffin

The course starts with the analysis of the structure of many languages. Knowledge of structure is then used to analyze art, religion, poetry. American Indian language and cultures constitute part of the course. Recommended for English and language teachers. Prerequisite: sophomores and above. (Offered in 1972-73 only by the Continuing Education Division)

Three credit hours

- ENG 385 Structural Linguistics and Culture** Mr. Coffin
A continuation of ENG 384. (Not offered in 1972-73) Three credit hours
- ENG 386 General Semantics** Mr. Rutherford
An investigation of some of the linguistic forces which shape contemporary life. Attention will be paid to advertising, political and national propaganda. Three credit hours
- ENG 387 Semantics** Mr. Coffin
Interpretation of literature by means of analysis of the language used. Recommended for prospective teachers of literature and English. Prerequisite: sophomore and above. (Not offered in 1972-73) Three credit hours
- ENG 388 Seminar in Linguistics** Mr. Bernard
(Not offered in 1972-73) Three credit hours
- ENG 389 English as a Foreign Language** Mr. Bernard
An analysis of modern spoken and written English from the point of view of phonology, morphology, lexicon, and syntax with running references made to other families of languages. Prerequisite: ENG. 380, 381, 384, or 387; or Survey of English Literature, undergraduate level; or permission of instructor. Competence in at least one language other than English is deemed essential. Three credit hours
- ENG 400 Senior Study** Staff
Guided individual study leading to completion of the senior project. Prerequisite: Senior standing. Three credit hours
- ENG 410 Independent Study in English** Staff
Individual study programs as arranged with an instructor. Prerequisite: Senior standing or permission of instructor. One to three credit hours
- ENG 550 Milton** Mr. Baier
A detailed study of Milton's major poetry in the light of modern scholarship. Readings, discussions, papers. Prerequisite: ENG 250 or equivalent. Three credit hours
- ENG 534 Structural Linguistics and Culture** Mr. Coffin
The course starts with the analysis of the structure of many languages. Knowledge of structure is then used to analyze art, religion, poetry. American Indian languages and cultures constitute part of the course. Recommended for English and language teachers. Prerequisite: Seniors and graduate students only. Three credit hours
- ENG 587 Semantics** Mr. Coffin
Interpretation of literature by means of analysis of the language used. Recommended for prospective teachers of literature and English. Prerequisite: Seniors and graduate students only. Three credit hours

COMPARATIVE LITERATURE

- CPEN 298 Great Continental Novelists** Mr. Hanna
A study and interpretation of eight representative works of European fiction and of underlying literary and historical trends. Students will read four French and four Russian novels: Stendhal, *The Red and the Black*; Balzac, *Pere Goriot*; Gogol, *Dead Souls*; Flaubert, *Madame Bovary*; Turgeniev, *Fathers and Sons*; Dostoevsky, *Crime and Punishment*; Tolstoy, *Anna Karenina*; and Zola, *L'Assommoir*. Oral reports, class discussion, short critical papers. (Not offered in 1972-73) Three credit hours
- CPEN 487 Oriental and Primitive Masterpieces** Mr. Coffin
The course starts with primitive literature of Black Africa and the American Indian and continues to early epic and other literature of Egypt, Babylonia, and Israel. (Offered in 1972-73 only by the Continuing Education Division) Three credit hours
- CPEN 488 Oriental and Oceanic Masterpieces** Mr. Coffin
The course introduces the best of Chinese lyrical poetry and the spiritual epics of India. Related material of interest will be used from Tibet and Oceania. Three credit hours

Foreign Languages and Classics

Associate Professors Clark, Dalvet (Chairman), Duclos, Lepelley; Assistant Professors Crochet, Rolfe, Ubans; Instructors DiBenedetto, Hernandez.

I. COURSES IN ENGLISH TRANSLATION

The Foreign Language and Classics Department offers a number of courses in English translation requiring no previous knowledge of a foreign language and open to any student interested in foreign or classical literature and civilization. These courses are numbered 251-300.

II. BILINGUAL STUDENTS

Franco-American students and other bilingual students will find two French courses especially devised for them (although not exclusively). They are numbered FRE 181 and FRE 381.

III. LANGUAGE PROGRAMS

The department offers programs in French, German, Classical Greek, Latin, and Spanish. Elementary courses (101-102) are for students who have never studied the language. Intermediate level courses (131-132 for modern languages; 201-202 for the ancient languages) are for students with two successful years of high school language study. Students who do not feel prepared to enter the intermediate course in a modern language must begin with the review course numbered 103. Students whose aim is exclusively the ability to read a modern language should enroll in courses numbered 111-112, which are also a preparation for language tests required by graduate schools.

IV. CONVERSATION

Besides the oral practice in the classroom, any student interested in acquiring the ability to speak fluently is invited to use the language laboratory located on the Portland campus in Payson Smith Hall, Room 203, and open every weekday from 9 a.m. to 3 p.m. Students enrolled in language courses (101-132) may register for a supervised language practice twice a week in the laboratory; they will receive an extra credit for regular and active attendance. Students who have already reached the level of literature courses may enroll in conversation courses meeting once a week (204-205) which may be repeated for one credit each semester.

V. FRENCH MAJOR

At the present time the department offers a major only in French. French majors must take a minimum of thirty credit hours on the 200 level and above, of which twenty-one hours must be in literature courses on the 300 level. They are advised to take as early as possible FRE 231, FRE 251, FRE 252, and FRE 203. Summer and junior year studies in France or French Canada are encouraged and acknowledged by transfer of credits.

All majors already engaged in studies of French Literature should maintain an active effort to reach fluency in speaking French through constant practice, use of the Language Laboratory and conversation courses FRE 204 and 205. They are expected to have reached proficiency in speaking and writing French before their graduation.

All students are reminded that, in addition to their meeting departmental requirements for a major leading to a baccalaureate degree, they must also meet the requirements of the school or college involved, as well as the University's General Education Requirements and the Physical Education Requirements. These general requirements are printed inside the front cover of this catalog.

VI. FRENCH MAJOR AND MINOR FOR STUDENTS IN THE SCHOOL OF EDUCATION

More than any other students, future teachers of French need a very solid foundation in the language so that they will be ready to teach it with ac-

curacy. The following programs are devised to assure that they reach such a goal:

French Major 30 credits above the 200 level

Required courses:

| | | <i>Credit Hours</i> |
|-----------------|-----------------------------------|---------------------|
| FRE 201 and 202 | Composition and Conversation | 6 |
| FRE 231 or 232 | Introduction to French Literature | 3 |
| FRE 203 | Phonetics | 3 |
| FRE 251 or 252 | French Civilization | 3 |
| FRE 401 or 402 | Advanced French Grammar | 3 |
| | | <hr/> |
| | | 18 hours |

Elective courses:

Literature courses on the 300 level

Any course listed above as required, beyond the 18 credits . . .

Students must also take the professional course FLED 301 – The Teaching of Foreign Languages.

French Minor 12 credits above the 200 level. (18 including Intermediate French.)

Required courses:

| | | |
|-----------------|-----------------------------------|---------|
| FRE 201 and 202 | Composition and Conversation | 6 |
| FRE 231 | Introduction to French Literature | 3 |
| | | <hr/> |
| | | 9 hours |

Elective courses:

FRE 203 Phonetics

FRE 232 Introduction to French Literature II

FRE 401 or 402 Advanced French Grammar

Any French Literature course on the 300 level

Students must also take the professional course FLED 301 – The Teaching of Foreign Languages.

COURSE DESCRIPTIONS

LITERATURE AND CIVILIZATION IN ENGLISH TRANSLATION

CLS 251 The Epic Hero in Ancient Literature Mrs. Duclos
Intensive readings in English translations of Gilgamesh, Iliad, Odyssey, Argonautica, Aeneid; discussion, papers. Three credit hours

CLS 252 The Tragic Hero in Ancient Literature Mrs. Duclos
Intensive reading of selected plays in English translation by Aeschylus, Sophocles, Euripides, Seneca; discussion; papers. Three credit hours

CLS 255 The Golden Age of Greece Mrs. Duclos
The literature, history, politics, philosophy, art, and architecture of the fifth century B.C. with particular attention to the achievements of Athens. Lectures, discussion, papers, museum trip. (Not offered in 1972-73) Three credit hours

CLS 256 Rome, from Republic to Empire Mrs. Duclos
The literature, history, politics, philosophy, art, and architecture of Rome in the first century B.C. Lectures, discussion, papers, museum trip. (Not offered in 1972-73) Three credit hours

FRE 251 French Civilization: An Historical Approach Mr. Dalvet
Aspects of the society, institutions, arts, literature, and religion of France, from the origins to the end of the XIXth century. Three credit hours

FRE 252 French Civilization: Contemporary France Miss Lepelley
Institutions, education, society, economy, politics of France. Requires reading knowledge of French, but no French is spoken in the classroom. Prerequisite: FRE 112. (Not offered in 1972-73) Three credit hours

FRE 261 Masterpieces of French Literature in English Translation I Mr. Dalvet
Novels and plays representative of French Literature from the beginning of the XIXth century to the present. (Not offered in 1972-73) Three credit hours

FRE 262 Masterpieces of French Literature in English Translation II Mr. Dalvet
Novels and plays representative of French Literature from the Middle Ages to the end of the 18th century. No knowledge of French is necessary. Three credit hours

- FRE 263 Contemporary French Thinkers** (in English Translation) Mr. Dalvet
Readings and discussion of recent works of French literature selected for their philosophical and ethical importance: Saint-Exupery, Sartre, Camus, de Beauvoir, Teilhard de Chardin and others. No knowledge of French is necessary. (Not offered in 1972-73)
Three credit hours
- FRE 264 Avant Garde Theatre in France** (in English Translation) Staff
Study of plays and theoretical texts in English translation from Jarry to Beckett. No knowledge of French is necessary. (Not offered in 1972-73)
Three credit hours

CLASSICS: GREEK AND LATIN

- GRK 101 Elementary Greek I** Mrs. Duclos
Fundamentals of classical Greek. Emphasis upon acquisition of reading knowledge.
Three credit hours
- GRK 102 Elementary Greek II** Mrs. Duclos
Selections from Euripides' *Alcestis*. Prerequisite: GRK 101.
Three credit hours
- GRK 201 Intermediate Greek I** Mrs. Duclos
A study of Plato's *Apology*, *Crito* and selections from the *Phaedo*. Prerequisite: GRK 101 or equivalent. (Not offered in 1972-73)
Three credit hours
- GRK 202 Intermediate Greek II** Mrs. Duclos
A study of selected books from Homer's *Odyssey*. (Not offered in 1972-73)
Three credit hours
- LAT 101 Elementary Latin I** Mrs. Duclos
Fundamentals of the Latin language. (Not offered in 1972-73)
Three credit hours
- LAT 102 Elementary Latin II** Mrs. Duclos
Continuation of LAT 101. (Not offered in 1972-73)
Three credit hours
- LAT 201 Intermediate Latin I** Mrs. Duclos
Selected readings from masters of Latin prose and poetry. Prerequisite: LAT 101 or equivalent. (Not offered in 1972-73)
Three credit hours
- LAT 202 Intermediate Latin II** Mrs. Duclos
Continuation of LAT 201. (Not offered in 1972-73)
Three credit hours
- LAT 231 Readings in Latin Literature I** Mrs. Duclos
Readings in the prose and poetry of the late Republic and Early Empire, with emphasis upon literary values.
Three credit hours
- LAT 232 Readings in Latin Literature II** Mrs. Duclos
Continuation of LAT 231.
Three credit hours

FRENCH

- FRE 101 Elementary French I** Miss Di Benedetto, Miss Crochet
Beginner's course in French. Initiation in the four skills of language learning: listening comprehension, speaking, reading, and writing. Students are encouraged to register also for laboratory practice (one more credit). Three credit hours. (With lab, four credit hours.)
- FRE 102 Elementary French II** Miss Crochet
Continuation of FRE 101. Three credit hours. (With lab, four credit hours.)
- FRE 103 Review of Elementary French** Miss Di Benedetto
Elementary French for students with some previous study of the language who feel the need for a refresher course before entering FRE 131. If possible, register also for laboratory practice (one more credit). Three credit hours. (With lab, four credit hours.)
- FRE 111 Reading French** Mr. Dalvet
Beginner's course in French aiming exclusively at a reading knowledge of the language. No French spoken. Recommended also as preparation for language tests required by graduate schools. Three credit hours
- FRE 112 Readings in French** Mr. Dalvet
Further practice of the skill acquired in FRE 111 through an accelerated reading of books on various topics (fiction, history, science, etc). Prerequisite: FRE 111.
Three credit hours
- FRE 131 Intermediate French I** Miss Di Benedetto, Mr. Rolfe
Development of the language skills through an analysis of contemporary texts: Camus, Sartre, Anouilh, or others. Students are encouraged to register also for laboratory practice (one more credit). Prerequisite: FRE 102, FRE 103 or equivalent.
Three credit hours. (With lab, four credit hours.)
- FRE 132 Intermediate French II** Miss Di Benedetto, Mr. Rolfe
Continuation of FRE 131. Three credit hours. (With lab, four credit hours.)

- FRE 181 French for Franco-Americans** Mr. Rolfe
An analysis of the French language (grammar, vocabulary, pronunciation) spoken in French communities of New England. The course is also recommended for French majors who plan to teach in such communities. Three credit hours
- FRE 201 Composition and Conversation in French** Miss Di Benedetto, Miss Crochet
Advanced study of the French language. Frequent practice of composition. Conversation and oral reports. Prerequisite: FRE 132. Three credit hours
- FRE 202 Advanced Composition and Conversation in French** Miss Di Benedetto, Miss Crochet
Practice of translation; free composition; stylistic analysis; advanced conversation. Prerequisite: FRE 132. Three credit hours
- FRE 203 French Phonetics** Mr. Rolfe
A formal study of the French sound system and an initiation into phonetic transcription with practical and remedial work in pronunciation. Prerequisite: FRE 132 or equivalent. Three credit hours
- FRE 204 French Conversation I** Miss Crochet
For advanced students needing oral practice. This course, which meets once a week, is especially recommended for French majors who may take it repeatedly for credit. Prerequisite: FRE 202 or equivalent. One credit hour per semester
- FRE 205 French Conversation II** Miss Crochet
Continuation of FRE 204. One credit hour per semester
- FRE 231 Introduction to French Literature I** Mr. Dalvet
Reading and discussion of representative literary works in the major genres (novel, drama, poetry). Techniques of close reading and *explication de texte* are studied. Designed to give a general background for the major as well as to provide a representative sampling for the non-major. Prerequisite: FRE 202 or equivalent. Three credit hours
- FRE 232 Introduction to French Literature II** Mr. Dalvet
Continuation of FRE 231. Three credit hours
- FRE 301 The French Novel Between the World Wars** Miss Crochet
Study of important novels by Gide, Proust, Mauriac, Malraux, Giono, and others. Student participation through group discussion and individual oral reports. Prerequisite: FRE 231. (Not offered in 1972-73) Three credit hours
- FRE 302 The French Novel from World War II to the Present** Miss Di Benedetto
Contemporary trends in the novel, with some attention to the short story. The post-war works of Camus and Sartre; novels by Robbe-Grillet, Beckett, Butor, Claude Simon, Marguerite Duras, and others. Prerequisite: FRE 231. (Offered in 1972-73 only by the Continuing Education Division) Three credit hours
- FRE 303 French Theatre in the Twentieth Century** Staff
Plays by Giraudoux, Cocteau, Anouilh, Sartre, Genet, Ionesco, and others. Prerequisite: FRE 231. (Not offered in 1972-73) Three credit hours
- FRE 321 Drama and Poetry from Romanticism to Symbolism** Miss Leppelley
Lectures, readings, and discussion of plays and poetry by Hugo, Musset, Vigny, Baudelaire, Verlaine, Mallarmé, Rimbaud, and other representative authors. Prerequisite: FRE 231. (Not offered in 1972-73) Three credit hours
- FRE 325 The XIXth Century Novel: Balzac and Stendhal** Mr. Dalvet
Representative novels and short stories of Balzac, Stendhal, and contemporaries. Prerequisite: FRE 231. (Not offered in 1972-73) Three credit hours
- FRE 326 The Nineteenth Century French Novel: Flaubert and Zola** Miss Crochet
Representative novels of Flaubert, Zola, and contemporaries. Prerequisite: FRE 231. (Offered in 1972-73 only by the Continuing Education Division) Three credit hours
- FRE 331 The Enlightenment in French Literature** Miss Di Benedetto
The use of literature for propagation of ideas in XVIIIth century France. Readings from Fontenelle, Montesquieu, Voltaire, Diderot, Rousseau. Prerequisite: FRE 321. (Not offered in 1972-73) Three credit hours
- FRE 332 The XVIIIth Century French Novel** Miss Di Benedetto
Readings from Prevost, Marivaux, Laclos, and others. Prerequisite: FRE 321. (Not offered in 1972-73) Three credit hours
- FRE 335 French Literature of the 17th Century until 1660** Miss Crochet
Readings from Malherbe, Scarron, Descartes, Pascal, Corneille. Prerequisite: FRE 231. Three credit hours
- FRE 336 French Literature of the 17th Century: the Apogee of the Classical Age** Miss Di Benedetto
Readings from Mme. de la Fayette, Moliere, Racine, La Fontaine, La Bruyere, Boileau. Prerequisite: FRE 231. Three credit hours

FRE 345 French Literature of the Medieval Period

Chansons de Geste, Romans courtois; theatre, lyric, poetry. In modern French translation.
Prerequisite: FRE 231. (Not offered in 1972-73)

Miss Lepelley

Three credit hours

FRE 381 Franco-Canadian Literature

Readings from the younger generations of French Canadian novelists Gabrielle Roy, Jean-Guy Pilon, Rejean Ducharme, Marie-Claire Blais, Jacques Godbout. Selections of French Canadian poetry. Prerequisite: FRE 231. (Not offered in 1972-73)

Miss Crochet

Three credit hours

FRE 401 Advanced French Grammar I

Designed to provide prospective teachers with an adequate foundation in French grammar. Prerequisite: FRE 202.

Mr. Clark

Three credit hours

FRE 402 Advanced French Grammar II

Continuation of FRE 401.

Mr. Clark

Three credit hours

FOREIGN LANGUAGE EDUCATION**FLED 301 The Teaching of Foreign Languages**

Principles and practices of teaching foreign languages at different learning levels. Survey of current trends and methods. Application of language learning principles to classroom procedures. For seniors seeking certification in teaching foreign languages.

Mr. Rolfe

Three credit hours

GERMAN**GMN 101 Elementary German I**

Beginner's course in German. Initiation in the four skills of language learning: listening comprehension, speaking, reading, and writing. Students are encouraged to register also for laboratory practice (one more credit).

Mrs. Ubans

Three credit hours. (With lab, four credit hours.)

GMN 102 Elementary German II

Continuation of GMN 101.

Mrs. Ubans

Three credit hours. (With lab, four credit hours.)

GMN 103 Review of Elementary German

Elementary German for students with some previous study of the language who feel the need for a refresher course before entering GMN 131. If possible, register also for laboratory practice (one more credit).

Mrs. Ubans

Three credit hours. (With lab, four credit hours.)

GMN 111 Reading German I

Beginner's course in German aiming exclusively at a reading knowledge of the language. No German spoken. Recommended also as preparation for language tests required by graduate schools.

Mrs. Schwanauer

Three credit hours

GMN 112 Reading German II

Continuation of GMN 111.

Mrs. Schwanauer

Three credit hours

GMN 131 Intermediate German I

For students who have completed GMN 102 or 103 or the equivalent. Review of grammar. Classroom practice aiming at fluency in speaking and reading. Students are encouraged to register also for laboratory practice (one more credit).

Mrs. Schwanauer

Three credit hours. (With lab, four credit hours.)

GMN 132 Intermediate German II

Continuation of GMN 131.

Mrs. Schwanauer

Three credit hours. (With lab, four credit hours.)

GMN 201 Composition and Conversation in German I

Systematic training in correct pronunciation and usage, and in vocabulary building, with written and oral practice and work in the laboratory. Prerequisite: GMN 104 or equivalent.

Mrs. Ubans

Three credit hours

GMN 202 Composition and Conversation in German II

Continuation of GMN 201. (Offered in 1972-73 only by the Continuing Education Division)

Mrs. Ubans

Three credit hours

GMN 231 Readings in German Literature I

Readings in 19th and 20th century German literature with special emphasis on the novella. Prerequisite: GMN 132 or equivalent.

Mrs. Ubans

Three credit hours

GMN 232 Readings in German Literature II

Continuation of GMN 231.

Mrs. Ubans

Three credit hours

SPANISH**SPN 101 Elementary Spanish I**

Beginner's course in Spanish. Initiation in the four skills of language learning: listening

Mr. Clark

comprehension, speaking, reading, and writing. Students are encouraged to register at the same time for laboratory practice (one more credit).

Three credit hours. (With lab, four credit hours.)

SPN 102 Elementary Spanish II

Mr. Clark

Continuation of SPN 101.

Three credit hours. (With lab, four credit hours.)

SPN 103 Review of Elementary Spanish

Mr. Clark

Elementary Spanish for students with some previous study of the language who feel the need for a refresher course before entering SPN 131. If possible, register also for laboratory practice (one more credit).

Three credit hours. (With lab, four credit hours.)

SPN 131 Intermediate Spanish I

Mrs. Hernandez

For students who have completed SPN 101 or the equivalent. Review of grammar. Classroom practice aiming at fluency in reading and speaking. Students are encouraged to register also for laboratory practice (one more credit). Prerequisite: SPN 102 or equivalent.

Three credit hours. (With lab, four credit hours.)

SPN 132 Intermediate Spanish II

Mrs. Hernandez

Continuation of SPN 131.

Three credit hours. (With lab, four credit hours.)

SPN 201 Composition and Conversation in Spanish I

Mrs. Hernandez

Advanced study of the Spanish language. Frequent practice of composition. Conversation and oral reports. Prerequisite: SPN 132 or equivalent.

Three credit hours

SPN 202 Composition and Conversation in Spanish II

Mrs. Hernandez

Continuation of SPN 201.

Three credit hours

SPN 231 Readings in Spanish Literature I

Mrs. Hernandez

A survey of the important periods and trends in Spanish literature with reading of representative works. Prerequisite: SPN 132. (Not offered in 1972-73)

Three credit hours

SPN 232 Readings in Spanish Literature II

Mrs. Hernandez

Continuation of SPN 231. (Not offered in 1972-73)

Three credit hours

Geography-Anthropology

Associate Professor Hodges (Chairman); Assistant Professor French.

The Department of Geography-Anthropology does not offer a major program leading to a degree in the College of Liberal Arts. It does, however, offer a 24-hour concentration of geography courses as part of one of the three alternative programs providing a 51-hour Social Science Area Major for Secondary Education students in the School of Education. The details of all three programs, the first offering a concentration in Geography, the second offering a concentration in History, and the third offering a concentration in Economics, are listed below.

The Department of Geography-Anthropology also offers an 18-hour Minor for all students in the School of Education, including Kindergarten-Primary, Elementary, and Secondary Education Majors.

Secondary Education students with majors or minors in the Social Sciences or the geography minor must achieve at least 6 credits with grades of B or better in such major or minor requirements. No grades of D will count toward fulfillment of the major or minor requirements. No required course may be repeated more than once.

All students are reminded that, in addition to their meeting departmental requirements for a major leading to a baccalaureate degree, they must also meet the requirements of the school or college involved, as well as the University's General Education Requirements and the Physical Education Requirements. These general requirements are printed inside the front cover of this catalog.

SOCIAL SCIENCES AREA MAJOR
With a 24-hour Concentration in Geography

| <i>Required</i> | | <i>Credit Hours</i> |
|--|-------------------------------|---------------------|
| HIST 101-102 | Western Civilization I and II | 6 |
| HIST 131-132 | U. S. History | |
| or | | |
| HIST 133-134 | U. S. History | 6 |
| SOC 101 | Introduction to Sociology | 3 |
| POL 101 | Introduction to Government | 3 |
| ANY 101 | Introduction to Anthropology | 3 |
| ECON 101 | Principles of Economics I | |
| and either | | |
| ECON 102 | Principles of Economics II | |
| or | | |
| ECON 201 | Current Economic Problems | 6 |
| SUBTOTAL OF NON-GEOGRAPHY COURSES | | 27 |
| GEOG 101 | Principles of Geography | 3 |
| GEOG 201 | World Geography | 3 |
| GEOG 302 | Urban Geography | 3 |
| GEOG 303 | Economic Geography | 3 |
| GEOG 304 | Political Geography | 3 |
| GEOG 310 | Geography of Asia | 3 |
| GEOG 311 | Geography of North America | 3 |
| GEOG 401 | The Local Environment | 3 |
| SUBTOTAL OF GEOGRAPHY COURSES | | 24 |
| TOTAL REQUIREMENTS IN THE SOCIAL SCIENCES | | 51 hours |

GEOGRAPHY MINOR

For Kindergarten-Primary, Elementary, or Secondary Education Students

| <i>Required</i> | | <i>Credit Hours</i> |
|--|----------------------------|---------------------|
| GEOG 101 | Principles of Geography | 3 |
| At least one course in regional geography from: | | |
| GEOG 201 | World Geography | |
| GEOG 310 | Geography of Asia | 3 |
| GEOG 311 | Geography of North America | |
| 12 hours of electives from the remaining geography courses | | 12 |
| TOTAL REQUIREMENTS FOR A MINOR IN GEOGRAPHY | | 18 |

OTHER OPTIONS

Students in the School of Education may also select the following options which are described below:

1. A 51-hour Social Science Area Major for Secondary Education Majors, with a 24-hour concentration in History courses.
2. A 51-hour Social Science Area Major for Secondary Education Majors, with a 27-hour concentration in Economics courses.
3. A 30-hour Social Science Area Major for Kindergarten-Primary or Elementary Education Majors.
4. An 18-hour Social Science Area Minor for Kindergarten-Primary Majors.

SOCIAL SCIENCES AREA MAJOR
With a 24-hour Concentration in History

| <i>Required</i> | | <i>Credit Hours</i> |
|---|-------------------------------|---------------------|
| HIST 101-102 | Western Civilization I and II | 6 |
| HIST 131-132 | U. S. History | |
| or | | |
| HIST 133-134 | U. S. History | 6 |
| Any additional 12 hours in HIST courses | | 12 |
| SOC 101 | Introduction to Sociology | 3 |
| POL 101 | Introduction to Government | 3 |

| | | |
|--|--|-------|
| ECON 101 | Principles of Economics I | |
| and either | | |
| ECON 102 | Principles of Economics II | |
| or | | |
| ECON 201 | Current Economic Problems | 6 |
| Total of 6 | hours from any combination of the following: | |
| GEOG 101 | Principles of Geography | |
| GEOG 201 | World Geography | |
| ANY 101-102 | Introductory Anthropology | |
| ANY 188-189 | Cultural Anthropology | 6 |
| | | <hr/> |
| SUBTOTAL OF SPECIFICALLY REQUIRED COURSES | | 42 |
| ELECTIVES | | |
| A minimum of 9 credit hours in any HIST, SOC, POL, ANY, ECON, GEOG courses | | 9 |
| | | <hr/> |
| TOTAL REQUIREMENTS IN THE SOCIAL SCIENCES | | 51 |

SOCIAL SCIENCES AREA MAJOR

With a 27-hour Concentration in Economics

| <i>Required</i> | | <i>Credit Hours</i> |
|---|--|---------------------|
| HIST 101 & 102 | Western Civilization | 6 |
| HIST 131 & 132 | U.S. History to 1877; U.S. History since 1877 | |
| OR | | |
| HIST 133 & 134 | U.S. History to 1900; U.S. History since 1900 | 6 |
| GEOG 101 | Principles of Geography | 3 |
| SOC 101 | Intro. to Sociology | 3 |
| POL 101 | Intro. to Government | 3 |
| ANY 101 | Intro. to Anthropology | 3 |
| ECON 101 & 102 | Principles of Economics | 6 |
| ECON 350 | Comparative Economic Systems | 3 |
| ECON 201 | Current Economic Problems | 3 |
| EC ED 300 | Economic Concepts and Resource Materials for Educators | 3 |
| Additional Electives from Economics | | 12 |
| | | <hr/> |
| TOTAL REQUIREMENTS IN THE SOCIAL SCIENCES | | 51 |

(Note: Practice teaching should be arranged to provide practice in the teaching of economics classes, if possible.)

SOCIAL SCIENCES MAJOR

For Kindergarten-Primary or Elementary Education Students

A minimum of 30 credit hours of HIST, SOC, POL, ANY, ECON, GEOG courses.

SOCIAL SCIENCES MINOR

For Kindergarten-Primary Education Students

A minimum of 18 credit hours of HIST, SOC, POL, ANY, ECON, GEOG courses.

COURSE DESCRIPTIONS

Anthropology

ANY 101 Introduction to Anthropology

The development of man as a bio-cultural phenomenon. Special emphasis on the fossil record; the development of human technology and culture; the relation between morphological and behavioral evolution; Darwinian law applied to the human species; the Palaeolithic, Mesolithic, and Neolithic; a brief history of anthropology. Three credit hours

ANY 102 Introduction to Anthropology

The nature of culture. A survey of such human institutions as social organization, political organization, economics and exchange, religion, myth, medicine, magic, ethnoscience. The study will focus on evolutionary trends and the development from band and tribal society through chiefdoms and states. Three credit hours

ANY 188 American Culture and Anthropology

Staff

Early American ethnography and archaeology, literature pertaining to the American Indian; an examination of the differences between American Indian and Colonial views of the American environment, and the different uses to which particular regions have been put; ethnogeography and concepts of land and space; study of fishing cultures and their characteristics. Prerequisite: ANY 101 or permission.

Three credit hours

ANY 189 American Culture and Anthropology

Staff

Development of American anthropology in the Twentieth Century; re-evaluated views of American culture and American Indians, their origins in traditional culture and their current directions; an analysis of the attempt to integrate American Indian (and non-Western) concepts and values into the mainstream of American life; a discussion of the role of anthropology in current American ecological problems.

Three credit hours

ANY 311 North and South American Indian Mythology

Staff

An intensive study of the meaning of the word "myth." Particular emphasis will be placed on current interpretations of myth-formation and the relation between myth and the other aspects of culture, relying heavily on the work of Levi-Strauss and structural anthropology. The four levels of myth — techno-economic, sociological, geographical, and cosmological — will be examined in terms of their dynamic interrelationship. Two cultures will be studied, one in North America and one in South America, and an attempt will be made to correlate myth and overall cosmology with economic and political conditions, magic, etiology, legends, rituals, healing, dream-quests, etc. Prerequisite: ANY 101 or 102 or permission.

Three credit hours

ANY 312 Culture and Personality

Staff

A study of the relation between cultural institutions and the individual; concentration on the writings of the Freudians, including Jung and Reich; study of psychosomatic aspects of cultural training; focus also on current problems in parapsychology, the Whorf hypothesis, and totemism. Prerequisite: ANY 101 and 102 or permission.

Three credit hours

Geography

GEOG 101 Principles of Geography

Mr. Hodges, Mr. French

Surveys the field of geography and presents an introduction to the several approaches to the discipline. Geographic theory, methods of investigation, and concepts are examined. Physical and cultural factors are interrelated to present the man and environment relationship from the point of view of the geographer. The course is a prerequisite for all advanced courses in geography.

Three credit hours

GEOG 201 World Geography

Mr. French

A concept-oriented approach to human geography that explores both natural and cultural influences upon man's use of the land and the varied spatial patterns that reflect his manner of occupation. Environmental quality, perception of environment, the dynamics of process, and new methods in the teaching of geography are among the areas receiving special emphasis. Prerequisite: GEOG 101.

Three credit hours

GEOG 302 Urban Geography

Mr. Hodges

Deals with the American city as a type. Urban centers are dealt with at two levels — as whole entities in which location, characteristics, growth, and relations with the countryside are explored, and as complex nodal regions in which the internal variations of the city are examined. Prerequisite: GEOG 101.

Three credit hours

GEOG 303 Economic Geography

Mr. Hodges

Economic Geography presents a topical approach to economic activities in the world. Primary, secondary, and tertiary economic activities are examined. The major objectives are (1) to present the pattern of economic activities on a world scale and (2) to present explanations for the location of economic activities. Prerequisite: GEOG 101.

Three credit hours

GEOG 304 Political Geography

Mr. Hodges

Political Geography is an examination of political conditions in selected areas of the world with emphasis upon theory, process, and results of political decisions. Physical, economic, and cultural factors are considered as explanations for political problem areas. Prerequisite: GEOG 101.

Three credit hours

GEOG 310 Geography of Asia

Mr. Hodges

The course examines the regions of South Asia, Southeast Asia, and East Asia. Monsoon Asia is regional in approach and all aspects of the environment are presented. Physical, cultural, economic, and political factors are examined in an integrative analysis to allow an understanding of some of the reasons for conditions in this part of the world. Prerequisite: GEOG 101.

Three credit hours

GEOG 311 Geography of North America

Mr. French

An open-ended approach, ranging from theory to the empirical, that deals with progress and problems in North America as seen from the spatial point of view. Prerequisite: GEOG 101.

Three credit hours

GEOG 401 The Local Environment

Mr. French

A course emphasizing the use of tangible artifactual and contemporary "outdoor" evidence in the interpretation of areal development. The local community serves as the laboratory with special attention afforded its relation to the regional and larger scene. Prerequisites: GEOG 101 plus one other Geography course.

Three credit hours

History

Professors Cole (Chairman), Emerson, York, Young; Associate Professors Albee, Bibber, Cannon, Connick, Dickey, Schleh, Whitmore; Assistant Professors Dietrich, Eastman, Ventresco.

The courses offered by the history department are intended to provide broad acquaintance with the past experience of human society. The history curriculum offers the student an opportunity to participate in and investigate the procedures and methods of historical study through lectures, discussion, research, and the writing of history; or, combined with the necessary academic credits in education, the program will provide certification for teaching at the secondary level.

It is hoped that students from many departments, schools, and colleges will take history courses in which they are interested. For students wishing to major in history, as part of the B.A. program or as part of a Secondary Education program, the following minimum program has been structured. Students will probably take more elective courses than the minimum, and should distribute them among the three areas (American, European, and non-Western).

A history major or minor must achieve at least six credits of "B" or better grades in history courses. No grade of "D" will count toward fulfillment of a history major or minor. No required course may be repeated more than once.

All students are reminded that, in addition to their meeting departmental requirements for a major leading to a baccalaureate degree, they must also meet the requirements of the school or college involved, as well as the University's General Education Requirements and the Physical Education Requirements. These general requirements are printed inside the front cover of this catalog.

MINOR IN HISTORY FOR STUDENTS IN SECONDARY EDUCATION

A student in Secondary Education may elect to minor in History. A minimum of 18 credit hours, including HIST 101-102 and HIST 131-132 or HIST 133-134 and elective history courses, is needed for this minor. Details of this program may be obtained from the student's faculty advisor.

ACADEMIC MAJORS AND MINORS IN KINDERGARTEN-PRIMARY AND ELEMENTARY EDUCATION

Students in Elementary Education or Kindergarten-Primary Education in the School of Education may complete 30 hours of History in an approved program for an academic major or 18 approved hours for an academic minor. Details of such programs may be obtained from the appropriate faculty advisors in the School of Education.

LIBERAL ARTS OR SECONDARY EDUCATION REQUIREMENTS FOR HISTORY MAJORS

| | <i>Credit hours</i> |
|---|---------------------|
| HIST 101 and 102 Western Civilization I and II (3 credits each semester) to be taken as a two-semester sequence | 6 |
| Choice of one of the two-semester sequences in U.S. History listed below, each offering 3 credits each semester | 6 |
| HIST 131 and 132 U.S. History to 1877 and U.S. History from 1877 | |
| or | |
| HIST 133 and 134 U.S. History to 1900 and U.S. History since 1900 | |
| Choice of at least one of the two-semester sequences in non-western history listed below, each offering 3 credits each semester | 6 |
| HIST 161 and 162 Introduction to African History to Partition and Introduction to African History since Partition | |
| or | |
| HIST 171 and 172 Traditional East Asia and Modern East Asia | |
| or | |
| HIST 181 and 182 Hispanic America I and II | |
| or | |
| HIST 191 and 192 The Middle East I and II | |
| HIST 200 Methodology in History (To be taken in the sophomore year or during the first semester after declaring a history major.) | 3 |
| Other History Courses | 18 |
| | <hr/> |
| Minimum Total to Meet Major Requirements | 39 |

NOTE: Students may elect two introductory courses in traditional or in modern non-western history if they prefer.

Unusually well-prepared entering students may, upon passing an examination, gain exemption from any of the required courses. Up to six hours of credit may be granted for superior achievement on such examinations. Otherwise, students will take advanced elective courses to complete the minimum number of credit hours for the major.

It is strongly recommended that history majors, especially those expecting to do graduate study, acquire proficiency in a foreign language.

COURSE DESCRIPTIONS

| | |
|---|--------------------|
| HIST 101 Western Civilization I | Staff |
| An introduction to the intellectual and political heritage of Western man from prehistoric times to the late 17th century. Divergent concepts of the theories and writing of history as a systematic explanation of past events form an integral part of the course. | |
| | Three credit hours |
| HIST 102 Western Civilization II | Staff |
| A survey of the experiences, ideas, and major creative works of Western man from the 17th century to recent times. The course interweaves political, intellectual, social, and economic developments. It considers international relations, the changing power balance among leading states, and contacts with non-Western civilizations. | |
| | Three credit hours |
| *HIST 131 United States History to 1877 | Staff |
| A basic survey and introduction to the field of American history, covering the political, social, and economic development of the United States through Reconstruction. | |
| | Three credit hours |

- *HIST 132 United States History Since 1877** Staff
The course is a continuation of HIST 131. A survey of American political, social, and economic development since about 1877. Three credit hours
- *HIST 133 United States History to 1900** Staff
The origin and development of American institutions from colonization to the present. Institutional models (e.g. — the family, business, education, etc.) will be presented and their development traced to 1900. Three credit hours
- *HIST 134 United States History Since 1900** Staff
A continuation of HIST 133. Three credit hours
- HIST 161 Introduction to African History to Partition** Mr. Schleh
Survey of African history from early migrations to the beginning of the Colonial era. Approach is both regional, stressing selected countries representative of their regions, and topical, cutting across political boundaries (e.g. — states of the Sudan, city states of East Africa), role of Islam, conduct and impact of the slave trade, exploration, and partition. Three credit hours
- HIST 162 Introduction to African History Since Partition** Mr. Schleh
Survey of the Colonial era; the transformation of African societies, the rise of nationalist movements, wars of liberation, and early years of the new era of independence. Three credit hours
- HIST 171 Traditional East Asia** Miss Bibber
The history and culture of China and Japan from earliest times to about 1700, with emphasis on the composition of the "traditional" societies. Three credit hours
- HIST 172 Modern East Asia** Miss Bibber
China and Japan since about 1700, emphasizing contrasting moves toward modernization in two traditional societies. Three credit hours
- HIST 181 Hispanic America I** Staff
The Spanish and Portuguese colonial empires in America from their establishment to their achievement of independence in the early 19th century. Prerequisite: no freshmen. Three credit hours
- HIST 182 Hispanic America II** Staff
The national period of Hispanic America and an analysis of the contemporary problems and tensions of the area. Prerequisite: no freshmen. Three credit hours
- HIST 191 The Middle East I** Staff
A survey of the political, economic, social, and religious history from earliest times to 1453, the fall of Constantinople. Prerequisite: six hours of history. (Not offered in 1972-73) Three credit hours
- HIST 192 The Middle East II** Staff
A continuation of HIST 191 concentrating on the period from the rise of the Ottoman Empire to modern times. Prerequisite: six hours of history. (Not offered in 1972-73) Three credit hours
- *HIST 131-132 and HIST 133-134 are both introductory courses, though class procedures differ. Credit will be given for one or the other, not both (i.e., not for both HIST 131 and HIST 133(or for both HIST 132 and HIST 134.))**
- HIST 200 Methodology in History** Mr. Eastman
An introduction to research and writing, designed to prepare undergraduates for the requirements of upper level courses in history and the social sciences with emphasis on practical methods of utilizing a library, locating materials, taking and organizing notes, and writing and rewriting research papers and reports. Prerequisite: six hours of history. Three credit hours
- HIST 231 Ancient History I** Staff
The political, social, and economic history of the civilizations of the ancient Mediterranean world with Egypt, the Near East, and Greece being studied. (Not offered in 1972-73) Three credit hours
- HIST 232 Ancient History II** Staff
A continuation of HIST 231 concentrating upon an examination of ancient Rome. (Not offered in 1972-73) Three credit hours
- HIST 233 The Bible I** Miss Dickey
An introductory survey of the Old Testament as the history and literature of the Hebrews — an exploration of the background, authorship and literary qualities of the history books, the prophets and the writings. Not open to freshmen. Three credit hours
- HIST 234 The Bible II** Miss Dickey
An introductory survey of the New Testament — the biographies of Jesus, the formation of the early church and its history with the impact of Paul on Christian thought are stressed. Not open to freshmen. Three credit hours

HIST 235 Medieval Civilization I

Europe from late antiquity through the Carolingian Empire, Islamic Empire, Byzantium Empire and the origin, development, and structure of feudalism. (Not offered in 1972-73)

Mr. Cole

Three credit hours

HIST 236 Medieval Civilization II

Europe through the Crusades; the medieval church and state; medieval theology and philosophy and the coming of the Renaissance and Reformation. (Not offered in 1972-73)

Mr. Cole

Three credit hours

HIST 241 Early Modern Europe

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

Mr. Ventresco

Three credit hours

HIST 242 French Revolution and Napoleon

The course takes the French Revolution as a climax of major intellectual, political, and social trends in eighteenth-century Europe. Thorough coverage is given to the Old Regime, the Enlightenment, the influence of the American Revolution, the French Revolution itself, and its impact outside France. The Napoleonic era is handled as the culminating phase of the Revolution and as a major influence on nineteenth-century Europe. Prerequisite: HIST 102. (Not offered in 1972-73)

Mrs. Young

Three credit hours

HIST 243 Europe in the Nineteenth Century

An intensive survey of the history of Europe's major powers and their international relations. Major topics also included are liberalism, nationalism, socialism, and imperialism. Intellectual and cultural developments are stressed. Prerequisite: HIST 102.

Mr. Ventresco

Three credit hours

HIST 244 Twentieth Century Europe I

A study of European society from the turn of the century through the aftermath of World War I. Particular attention will be given to industrialization, urbanization, imperialism, and nationalism, as well as to the approach of world war and the war's consequences. Prerequisite: HIST 102.

Mr. Albee, Mr. Ventresco, Mrs. Young

Three credit hours

HIST 245 Twentieth Century Europe II

An intensive survey of European developments in the twentieth century stressing intellectual, economic, psychological, social, and political factors. Europe's changing role; the impact of World Wars I and II; the meaning of Facism, Nazism, and Soviet Communism; and problems facing Europe in today's world are considered. Prerequisite: HIST 102.

Mr. Albee, Mr. Ventresco, Mrs. Young

Three credit hours

HIST 246 European Diplomatic History I

A study of European Diplomatic History from the Renaissance through the 1st World War emphasizing the national foreign policies of the major European powers and changing concepts of international relations. (Not offered in 1972-73)

Mr. Albee

Three credit hours

HIST 247 European Diplomatic History II

A study of European Diplomatic History from the end of the 1st World War to the present emphasizing the national foreign policies of the major European powers and changing concepts of international relations. (Not offered in 1972-73)

Mr. Albee

Three credit hours

HIST 261 History of England

A survey of England from Anglo-Saxon times to the beginning of the twentieth century, with emphasis on the nature of English monarchy, the development of political institutions, and evolving constitutionalism. Particular attention is given to broad movements such as the Reformation, the Industrial Revolution, and Imperialism. Prerequisite: HIST 101 and 102.

Mr. Cole, Mr. Ventresco

Three credit hours

HIST 265 Italy Since 1815

A political, intellectual, diplomatic, and social history of Italy from the Risorgimento to the Totalitarian state, and to the post-war era. Considerable emphasis will be placed upon the role of the Papacy in Italian affairs, and the forces which have altered this relationship. The problems of contemporary Italy will be analyzed within the broad framework of European history. Prerequisite: six hours of history.

Mr. Ventresco

Three credit hours

HIST 267 History of France I

A survey of French history treating the political, social, economic, and cultural development of the nation from the formation of the French monarchy through the French Revolution and Napoleon. Prerequisite: HIST 101 and 102 or permission. (Not offered in 1972-73)

Staff

Three credit hours

HIST 268 History of France II

A continuation of HIST 267 covering the period from 1815 to the present. Prerequisite: HIST 101 and 102 or permission. (Not offered in 1972-73)

Staff

Three credit hours

HIST 271 German History, 1648-1900

Mr. Albee

A study of the German people from the Thirty Years' War until the twentieth century. Particular attention will be given to the rise of Prussia as a rival to Austria, to life in the Germanies during the Enlightenment, and to the romanticism, liberalism, and nationalism of the nineteenth century. Prerequisite: HIST 102. (Not offered in 1972-73)

Three credit hours

HIST 272 Germany in the 20th Century

Mr. Albee, Mrs. Young

A study of the German Empire, its dissolution in 1918, the Weimar Republic, Hitler's Third Reich, Germany in World War II, and divided Germany since 1945. Includes a study of cultural and social factors which help explain Germany's role in the modern world. Prerequisite: HIST 102 or permission.

Three credit hours

HIST 275 History of Russia I

Mrs. Young

Political, social, cultural, and economic history of the Russian people to 1801. Surveys geographic backgrounds, the influence of Byzantine civilization, the impact of invasions, and the development of Russia's unique social, cultural, and political institutions through the reign of Catherine the Great. Prerequisite: one survey or permission. (Not offered in 1972-73)

Three credit hours

HIST 276 History of Russia II

Mrs. Young

A continuation of Russian history from 1801 to today. The course deals with pressures for reform and weaknesses in imperial Russia, role of the intelligentsia, and revolutionary parties, the Bolshevik Revolution, and the history of Communist Russia since 1917. Prerequisite: one survey or permission. (Not offered in 1972-73)

Three credit hours

HIST 291 The British Commonwealth I

Staff

A survey of the modern British Commonwealth. The first semester will concentrate on the history, contemporary position, problems of Canada, the West Indies, and British Africa. (Not offered in 1972-73)

Three credit hours

HIST 292 British Commonwealth II

Staff

A survey of the modern British Commonwealth. The second semester will concentrate on the history, contemporary position, problems of the Commonwealth Countries in Asia and the Pacific. (Not offered in 1972-73)

Three credit hours

HIST 295 History of Canada I

Mr. Whitten

Canada's history from the earliest settlements in New France to 1867. Emphasis on the evolution of Canada within the British Empire-Commonwealth, relations with the United States, and on the background of contemporary constitutional, economic, and cultural problems. Prerequisite: HIST 131 or 133. (Not offered in 1972-73)

Three credit hours

HIST 296 History of Canada II

Mr. Whitten

Canada's history since 1867. Continuation of HIST 295. (Not offered in 1972-73)

Three credit hours

HIST 297 Canadian-American Relations

Mr. Whitten

A seminar-type course designed to explore relationships with the nation most involved with the economy, security, and geography of the United States. Limited enrollment. Prerequisite: HIST 131 and 132 or HIST 133 and 134. (Not offered in 1972-73)

Three credit hours

HIST 298 Naval History

Staff

The influence of sea power on history with major emphasis on the Anglo-American naval tradition since 1750. Naval strategy, tactics, operations, and administration will be evaluated during the period of naval growth (1775-1900) and in the subsequent era of the battleship and the fast carrier attack force. Anglo-American naval operations in World War I, World War II, Korea, and Vietnam will be specially considered. Prerequisite: HIST 131 and 132 or HIST 133 and 134. (Not offered in 1972-73)

Three credit hours

HIST 301 American Colonial History

Mr. Cannon

Half the semester is devoted to discovery, exploration and colonization. New Spain, New France, New Netherland, and New Sweden are compared with the English settlements (13 colonies), each of which is considered in detail. Second half of semester emphasizes social and intellectual topics (e.g. - religion, law, medicine, painting, literature, and music). Prerequisite: HIST 131 or 133. (Not offered in 1972-73)

Three credit hours

HIST 302 The American Revolution

Mr. Cannon

The Anglo-French conflict, the series of inter-colonial wars, and the "Old Imperial System" are considered as background to the American Revolution. Subsequently, the period 1763-1789 is treated in detail, including leading personalities, military campaigns, social aspects of the war, and the Constitution (origins, constitutional convention and ratification). Historiography of the period is emphasized. Prerequisite: HIST 131 and 132 or HIST 133 and 134. (Not offered in 1972-73)

Three credit hours

HIST 305 Hamilton and Jefferson

Mr. Cannon

Special emphasis on Hamilton and Jefferson to include: biographical information, the Jefferson-Hamilton political dichotomy, and its subsequent influence. Following this, a general analysis of social, intellectual, political, economic, and diplomatic problems facing the "New Nation" between 1789-1815 is presented. Prerequisite: HIST 131 and 132 or HIST 133 and 134 or permission.

Three credit hours

HIST 306 The Age of Jackson, 1815-1850

Mr. Hunt

A consideration of American political, cultural, social, and economic development in the first half of the 19th century. Specific topics will include the controversies surrounding Jacksonian democracy, the Bank of the United States, internal improvements, the tariff, "Manifest Destiny", and the sectional-slavery issue. Prerequisite: HIST 131 and 132, or permission. (Not offered in 1972-73)

Three credit hours

HIST 307 Civil War and Reconstruction

Mr. Emerson, Mr. Hunt

An examination of the period 1850-1877, dealing with the background and causation of the war; Lincoln and the secession crisis; the military, political, diplomatic, and economic aspects of the Civil War; and the challenges and ultimate failure of reconstruction after 1865. Prerequisite: HIST 131 or 133.

Three credit hours

HIST 308 The Gilded Age in America, 1869-1898

Mr. Hunt

The United States in the age of enterprise with emphasis on the development of political and economic radicalism, the commercialization of agriculture, the rise of the American city, new directions in social thought, concentration of industrial wealth and financial power, and American foreign policy. Prerequisite: HIST 132 or 134 or permission. (Not offered in 1972-73)

Three credit hours

HIST 309 Early 20th Century America, 1898-1938

Mr. Emerson

The United States in the first four decades of the twentieth century with coverage of the Spanish-American War, the progressive movement, American entry into World War I, the Roaring Twenties, the Great Depression, and the domestic programs of the New Deal. Prerequisite: HIST 132 or 134.

Three credit hours

HIST 310 America Since 1938

Mr. Emerson

The United States since the Great Depression with coverage of the foreign policy of the New Deal, the background to Pearl Harbor, World War II, the Fair Deal, the Cold War, the Eisenhower years, the New Frontier, and the Great Society. Prerequisite: HIST 132 or 134 or permission.

Three credit hours

HIST 321 History of Maine

Mr. York

A survey of Maine's social, economic, and political life from primitive times to the present.

Three credit hours

HIST 323 History of the South

Mr. Whitmore

A survey of the social, political, economic, intellectual, cultural, and racial elements of the American South from the colonial period to the present. Prerequisite: HIST 131 and 132 or HIST 133 and 134. (Not offered in 1972-73)

Three credit hours

HIST 325 History of the American Frontier

Mr. Cannon

The Turner thesis, historiography, and adaptations to the challenges of the environment are considered. Various frontiers from the Atlantic seaboard to the last frontier on the Great Plains are studied. Prerequisite: HIST 131 and 132 or HIST 133 and 134 or permission.

Three credit hours

HIST 327 U.S. Maritime History

Staff

Ships and trade from colonial days to the present, emphasis on famous ships and ship builders, the evolution of ships from sail and wood to steam and steel, the effect of the Civil War and two world wars on American Merchant marine, and the relationship between the United States Navy and the merchant service. Prerequisite: HIST 131 and 132 or HIST 133 and 134 or permission. (Not offered in 1972-73)

Three credit hours

HIST 331 History of Black Americans

Mr. Emerson, Mr. Whitmore

The experience of black people within American society from the colonial period to the present is treated through their interaction with the nation's social, political, cultural, and economic institutions. Major topics include the African heritage, components of slavery, abolitionism, segregation, programs of race advancement, and the modern search for identity. Prerequisite: HIST 131, or HIST 133, or permission.

Three credit hours

HIST 335 American Urban History

Mr. Whitmore

The American city is surveyed in regard to the history of its social, political, intellectual, and cultural components; the changing nature of "community"; the course of urban development; and the emergence of urban life styles. Special attention is focused on the population movement to the city; the development of slums, ghettos, and suburbs, the growth of municipal institutions and services; the relationship of city dwellers and government; and the emergence of "Megalopolis." Prerequisite: HIST 131 or 133. (Not offered in 1972-73)

Three credit hours

- HIST 337 American Economic and Business History, 1607-1860** Mr. Eastman
Economic and business developments in the United States from the first settlements to the Civil War with coverage of the British mercantile system, the colonial economy, the Transportation Revolution, the Southern plantation system, and the beginnings of American industrialization; and with in-depth analysis of selected topics of special interest. Prerequisite: HIST 131, or HIST 133, or permission. (Not offered in 1972-73) Three credit hours
- HIST 338 American Economic and Business History Since 1860** Mr. Eastman
Economic and business developments in the United States from the Civil War to the present with coverage of the growth of a national market and distribution system, the revolution in agriculture, the rise of big business, the organization of labor, and the growing involvement of the federal government in business and the economy; and with in-depth analysis of selected topics of special interest. Prerequisite: HIST 131 and 132 or HIST 133 and 134 or permission. (Not offered in 1972-73) Three credit hours
- HIST 339 American Labor in the Twentieth Century** Mr. Emerson
A chronological examination of the efforts of American corporate society. Topics will include the emergence of the AFL, labor radicalism, labor and immigration, the nature and role of labor leadership, racketeering labor and the New Deal, and the rise of Big Labor. The focus will be on organized labor but attention will also be given to white collar workers, blacks, migrants, and other fringe groups. Emphasis will be placed on labor theory. Prerequisite: HIST 132 or HIST 134 or permission. (Not offered in 1972-73) Three credit hours
- HIST 341 American Social and Intellectual History I** Mr. Emerson, Mr. Whitmore
An analysis of the evolution of American religious, political, economic, social, and scientific thought from the colonial period to 1865 emphasizes major principles, assumptions, and values; the relation of American thought to class structure, ethnic and racial associations, mobility, and immigration; and its relation to contemporary intellectual patterns in the western world. Three credit hours
- HIST 342 American Social and Intellectual History II** Mr. Emerson, Mr. Whitmore
A continuation of HIST 341 from 1865 to the present. Three credit hours
- HIST 343 Diplomatic History of the United States I** Staff
This course covers the development of key United States foreign policies from the Revolution to the Spanish-American War. Prerequisite: HIST 131 or HIST 133. (Not offered in 1972-73) Three credit hours
- HIST 344 Diplomatic History of the United States II** Mr. Albee
The chief emphasis is placed on the causes and results of World Wars I and II, the nature of the Cold War, and the character of our present commitments. Prerequisite: HIST 132 or HIST 134. Three credit hours
- HIST 345 Seminar in American Character** Mr. Emerson
A course focusing on a particular problem of historical analysis; the interpretation of the national character as revealed in sources ranging from the earliest accounts of foreign travellers to the most recent works of social psychologists. Authors to be considered in discussions, reports, and papers include Tocqueville, Bryce, Adams, Turner, Siegfried, Mead, Potter, Riesman, and others. Prerequisite: HIST 131, or HIST 133, or permission. (Not offered in 1972-73) Three credit hours
- HIST 347 Viewpoints in American History** Miss Bibber
A seminar involving discussions of selected topics in United States history, with emphasis on varying interpretations of trends and events. Students will read and analyze both traditional and more recent views, noting changes in frames of reference, methodology, and general approach. Prerequisite: 12 hours of U.S. history. Three credit hours
- HIST 361 The United States and Africa** Mr. Schleh
A history of United States' interests in and relations with Africa from the early seventeenth century to the present. Areas covered include commerce, social and humanitarian contacts, America's role in the exploration of Africa, and diplomacy. Prerequisite: 9 hours of history or permission. (Not offered in 1972-73) Three credit hours
- HIST 362 Contemporary Africa** Mr. Schleh
Seminar to examine major interdisciplinary elements in today's Africa including: literature and the arts, social change, development and adaption in African politics, economic development, race relations, and international politics. (Not offered in 1972-73) Three credit hours
- HIST 371 The United States and Asia** Miss Bibber
A history of the United States' interests in the Far East from 1789 to the 1960's, considering economic and social contacts as well as diplomatic. Prerequisites: HIST 131 and 132 or HIST 133 and 134. HIST 172 strongly recommended. Three credit hours

HIST 373 History of Late Traditional China

Mr. Dietrich

Before the nineteenth century no Chinese doubted — and few outsiders who saw it disagreed — that the “Middle Kingdom” was the greatest of the world’s civilizations. No society was larger, had stronger ties to its past, or had contributed more to the development of human culture. This course will explore the institutions and values of China in the period from 800 to 1800, and its relationships with other societies. Prerequisite: HIST 171 recommended. (Offered in 1972-73 only by the Continuing Education Division)

Three credit hours

HIST 374 History of Modern China

Mr. Dietrich

After dealing with the nature of Chinese society and institutions as they existed around 1800, the course will take up problems of modernization, imperialism, revolution, warlordism, Japanese aggression, civil war, and the present communist regime. Prerequisite: HIST 172 recommended. (Offered in 1972-73 only by the Continuing Education Division)

Three credit hours

HIST 376 History of Modern Japan

Mr. Dietrich

This course will explore what Japan was like when Perry “opened” it in 1854 and will deal with the rapid social changes which made Japan the outstanding of modernization among non-western nations. The problems which this development has created will also be considered. Prerequisite: HIST 172 recommended.

Three credit hours

HIST 377 Chinese Intellectual History

Mr. Dietrich

Prior to the modern era, the Chinese interpreted their world through traditional idea systems, the most prominent of which were Confucianism, Taoism, and Buddhism. This course will explore these traditions: their assumptions and values, their varieties and internal tensions, and their relationships to the larger social system. Prerequisite: HIST 171 recommended.

Three credit hours

HIST 381 Latin America and the United States

Staff

A survey of United States participation in Latin American affairs from the recognition of independence and the enunciation of the Monroe Doctrine to the Good Neighbor policy and the present day. Prerequisite: HIST 182 recommended.

Three credit hours

HIST 382 Problems of Latin America

Staff

An analysis and evaluation of contemporary Latin American problems. The internal tensions and international relations of the several countries. Prerequisite: HIST 182 recommended.

Three credit hours

HIST 392 Problems in Contemporary History

Staff

An analysis in depth of a selected controversial and contemporary problem. The topic to be studied and the method of approaching it will be chosen jointly by interested students and the staff. Prerequisite: permission of the instructor. (Not offered in 1972-73)

Three credit hours

HIST 394 Selected Topics in History

Staff

An analysis in depth of a selected controversial historical problem. The topic to be studied and the method of approaching it will be chosen jointly by interested students and the staff. Prerequisite: permission.

Three credit hours

HIST 415 Recent Literature in European History

Staff

A survey of the most important recent literature in the field of European history. Designed to inform the public school teacher and advanced undergraduate of the newest publications and historical controversies. Annotated bibliographies will be prepared. Emphasis on reading and discussing books and articles with applicability to secondary education programs. Prerequisite: six hours of European history or permission.

Three credit hours

HIST 445 Recent Literature in United States History

Staff

A survey of the most important recent literature in the field of U.S. History. Designed to inform the public school teacher and advanced undergraduate of the newest publications and historical controversies. Annotated bibliographies will be prepared. Emphasis on reading and discussing books and articles with applicability to secondary education programs. Prerequisite: twelve hours of U.S. history or permission. (Not offered in 1972-73)

Three credit hours

HIST 495 Historiography

Staff

A survey of the principal schools of historical writing and of their products, with a detailed analysis of the philosophical principles, specific purposes, and research and writing techniques of selected major historians. Prerequisite: Senior history majors only. (Not offered in 1972-73) Three credit hours

HIST 498 Independent Study in History

Staff

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

Mathematics

Professors Estes, Fish (Chairman), P. Rogers; Associate Professors Brown, Guay, Mainville, Moulton; Assistant Professors Chabot, Foster, Kratzer, MacDonald, Rafter, Soychak; Instructors Bradbard, Irish.

A four-year program leading to a baccalaureate degree in mathematics is offered, as well as offerings to meet the requirements of a number of undergraduate and graduate programs.

All students are reminded that, in addition to their meeting departmental requirements for a major leading to a baccalaureate degree, they must also meet the requirements of the school or college involved, as well as the University's General Education Requirements and the Physical Education Requirements. These general requirements are printed inside the front cover of this catalog.

I. REQUIREMENTS FOR THE MATHEMATICS MAJOR

- A. Successful completion of the Calculus sequence (MS 150, 151, 250, 251) and Foundations (MS 290).
- B. Successful completion of one of the courses listed in each of the following four areas:
 1. Algebra: MS 382 Abstract Algebra
MS 380 Linear Algebra
 2. Analysis: MS 355 Complex Analysis
MS 352 Real Analysis
MS 354 Topics in Advanced Calculus
 3. Applied Mathematics: MS 360 (or GEE 207) Computer Programming
MS 362 Mathematical Statistics I
MS 368 Numerical Analysis
 4. Geometry: MS 370 College Geometry
MS 372 Non-Euclidean Geometry
MS 371 Projective Geometry

Any changes in the above categories must be approved by the department.

- C. Successful completion of at least 39 hours of approved mathematics courses. Approved courses are generally considered to be ones in which the second digit is 5 or greater.
- D. A student must have a minimum major average of 2.0 before being considered for a baccalaureate degree in mathematics.

II. RECOMMENDATIONS FOR MATHEMATICS MAJORS

- A. Students who are considering majoring in mathematics should complete MS 150 and MS 151 in their freshman year and MS 290 by the end of their sophomore year.
- B. Mathematics majors intending to pursue graduate work are strongly urged to take Real Analysis I, Abstract Algebra, Topology, and one year of French, German, or Russian.
- C. Mathematics majors intending to enter industry are advised to take Computer Programming, Statistics, Differential Equations, and Numerical Analysis. It is also suggested that such majors consider minoring in a quantitative field such as Physics, Economics, Engineering, etc.
- D. Mathematics majors intending to teach at the secondary level should have a minor in another field. They are strongly urged to take Abstract Algebra, College Geometry, Mathematical Statistics I and II, Teaching of Mathematics in the Secondary School, Student Teaching, Studies in Educational Foundations, and Human Growth and Development.

III. REQUIREMENTS FOR MATHEMATICS MINORS AND EDUCATION MAJORS

- A. A minor in mathematics may be obtained by the successful completion of 18 hours of mathematics courses in which the second digit is 5 or greater (with the possible exception of an MS course whose code number ends in the double digit "99").
- B. Kindergarten-Primary or Elementary majors may fulfill an area concentration by successfully completing MS 100, MS 101, and eight elective three-credit hour mathematics courses with MS code numbers of 120 or above.
- C. Kindergarten-Primary or Elementary majors may complete an academic minor in mathematics by successfully completing MS 100, MS 101 and four elective three-credit hour mathematics courses with MS code numbers of 120 or above.

COURSE DESCRIPTIONS

MS 10 Mathematical Analysis for Business Decisions I

Staff

The traditional topics of elementary mathematics are included to acquaint the student with their uses as tools which can be applied to solving problems of a business decision-making nature. Topics covered include integers, real numbers, number systems, set theory and complex numbers. Restricted to Associate Degree Program students.

Three credit hours

MS 11 Mathematical Analysis for Business Decisions II

Staff

A continuation of MS 10. Restricted to Associate Degree Program students.

Three credit hours

MS 100 Elements of Mathematics I

Staff

This is the first course in a basic two-course sequence of special interest to prospective primary and elementary teachers. The course places major emphasis on an intuitive approach to the structure of the real number system. Topics covered: sets and logic, system of whole numbers, integers, rationals, numeration systems, elementary number theory. Restricted to students majoring in elementary or primary education. Prerequisites: one year of high-school algebra and geometry.

Three credit hours

MS 101 Elements of Mathematics II

Staff

Continuation of MS 100. Topics covered: decimals and real numbers, mathematical systems of modern mathematics, probability, elementary statistics, informal geometry, algebra concepts. Prerequisite: MS 100 or permission of instructor.

Three credit hours

- MS 102 Basic Technical Mathematics with Calculus, Part I** Mr. Soychak
This course includes the traditional topics of college freshman mathematics: slide rule, functions, graphs, equations, systems of linear equations, determinants, trigonometry. Prerequisites: one year of high-school algebra and geometry, or permission of instructor. Three credit hours
- MS 103 Basic Technical Mathematics with Calculus, Part II** Mr. Soychak
A continuation of MS 102 including more trigonometry, vectors, complex numbers, logarithms, analytic geometry, derivatives with applications, and integrals with applications. Prerequisite: MS 102 or permission of instructor. Three credit hours
- MS 104 Mathematical Concepts I** Staff
The first course of a two-course sequence designed for students not majoring in mathematics. Topics are selected to show the content, method and meaning of mathematics. Selections from the following topics: sets, logic, probability, analysis, geometry, linear algebra, computer programming. Prerequisites: two years of high-school algebra and one year of geometry. Three credit hours
- MS 105 Mathematical Concepts II** Staff
A continuation of Mathematical Concepts I. Prerequisite: MS 104 or permission of instructor. Three credit hours
- MS 109 Linear Systems** Staff
An introduction to vectors, matrices, and linear systems of algebraic equations; linear programming; elementary functions. Prerequisite: two years of high school algebra and one year of geometry. Three credit hours
- MS 110 Elementary Mathematical Analysis** Staff
A unified treatment of the elementary functions of analysis: their analytical properties including derivatives, integrals, and series; introduction to multivariate calculus; applications. Prerequisite: three years of high-school college-preparatory mathematics. Three credit hours
- MS 115 Introduction to Computers** Staff
An introduction to the University's computer system. The programming language used will be BASIC, CUPL, or FORTRAN. One credit hour
- MS 116 An Introduction to Computer Systems** Staff
An introductory study of the role of the computer in modern life; computer systems, languages, programming, techniques, and applications. Extensive use will be made of the University's computer system. This course is designed especially for non-mathematics majors. Prerequisites: Familiarity with the content of three years of high school college preparatory mathematics. (Not offered in 1972-73) Three credit hours
- MS 120 Statistical Inference** Mr. Fish
An introductory course including basic probability, random variables, and their distributions; estimation and hypothesis testing; regression and correlation. Prerequisite: two years of high-school algebra. Three credit hours
- MS 140 Pre-Calculus Mathematics** Mrs. Foster, Mr. MacDonald
A brief review of elementary algebra followed by a study of the algebraic, exponential, logarithmic, and trigonometric functions. Prerequisite: two years of high-school algebra. Three credit hours
- MS 150 Calculus I** Staff
This is the first course in a sequence of four basic calculus courses (MS 150, 151, 250, and 251) which cover the study of functions of one or more variables, and their graphs, limits, derivatives, integrals, optimization, infinite series, vector valued functions, and various applications. Calculus I provides an introduction to the calculus of functions of a single variable. (Please compare description of Calculus A—MS 152.) Prerequisites: two years of high-school algebra, plus geometry and trigonometry; or MS 140. Three credit hours
- MS 151 Calculus II** Staff
A continuation of MS 150. Prerequisite: MS 150. Three credit hours
- MS 152 Calculus A** Mr. Guay
For students in the engineering program, a sequence of three basic calculus courses (MS 152, 153, 252) is offered. Topics in this course sequence cover: calculus of functions of one or more variables, graphs, limits, derivatives, integrals, optimization, infinite series, vectors, and applications in physical sciences. Calculus A provides an introduction to the calculus of functions of one variable. Restricted to engineering students. Prerequisites: two years of high-school algebra, plus geometry and trigonometry; or MS 140. Four credit hours

- MS 153 Calculus B** Staff
A continuation of Calculus A. Course will usually include infinite series and an introduction to vectors. Prerequisite: MS 152. Four credit hours
- MS 211 Probability** Mr. Chabot, Mr. Rafter
Discrete and continuous sample spaces; common probability laws; expected values, sampling distributions. Prerequisites: MS 110 or MS 150. Three credit hours
- MS 212 Statistics** Mr. Chabot, Mr. Rafter
Sampling distributions; estimation; hypothesis testing; introduction to regression analysis and analysis of variance. Applications primarily in business and economics. Prerequisite: MS 211. Three credit hours
- MS 230 History of Elementary Mathematics** Staff
A history of certain topics in number theory, geometry, and elementary algebra. Prerequisite: MS 101 or permission of instructor. (Not offered in 1972-73) Three credit hours
- MS 231 Basic Concepts of Algebra** Staff
A course as recommended by the Committee on the Undergraduate Program, Mathematical Association of America, to follow the two-course sequence on number systems; emphasis on generalization and abstraction, algebraic properties, linear equations and inequalities in two variables, quadratics, systems of equations and inequalities, modular arithmetic, group, field, complex numbers, functions. Prerequisites: MS 100 and MS 101. Three credit hours
- MS 232 Informal Geometry** Mr. Kratzer
To provide the prospective elementary teacher with the common core of geometric knowledge; congruence, measurement, parallelism, and similarity; presented at first intuitively, then as part of a deductive system; applications. Follows recommendations of CUPM, Mathematical Association of America. Prerequisite: MS 101. Three credit hours
- MS 250 Calculus III** Staff
A continuation of the developments of Calculus I and II: solid analytic geometry, infinite series, partial differentiation, applications. Prerequisite: MS 151. Three credit hours
- MS 251 Calculus IV** Mr. MacDonald, Mr. Fish
Multiple integrals and an introduction to ordinary differential equations, applications. Prerequisite: MS 250. Three credit hours
- MS 252 Calculus C** Staff
Multivariate calculus and vector calculus. Prerequisite: MS 153. Four credit hours
- MS 290 Foundations of Mathematics** Mr. Irish, Mr. Mainville
Selected topics in set theory, symbolic logic, and methods of proofs needed in more advanced mathematics courses. Prerequisite: consent of the department. Three credit hours
- MS 291 The Real Numbers** Mr. Irish, Mr. Mainville
An axiomatic construction of the real number system. Prerequisite: MS 290 or permission of instructor. Three credit hours
- MS 292 Theory of Numbers** Staff
Basic course in number theory, including such topics as divisibility properties of integers, prime numbers, congruences, multiplicative number theoretic functions, and continued fractions. Prerequisite: two years of high-school algebra. (Not offered in 1972-73) Three credit hours
- MS 350 Differential Equations** Mr. Rogers
A study of various methods for solving ordinary differential equations and initial value problems including transform, numerical, and series methods. Three credit hours
- MS 352 Real Analysis I** Mr. MacDonald
Limits, continuity, differentiation and integration of functions of one or more real variables, infinite series, uniform convergence, and other selected topics. Prerequisites: MS 251 (or 252), and MS 290. Three credit hours
- MS 353 Real Analysis II** Staff
A continuation of Real Analysis I. Prerequisite: MS 352. (Not offered in 1972-73) Three credit hours
- MS 354 Topics in Advanced Calculus** Staff
Selected topics on multivariate functions, vectors, transformations, line integrals, and surface integrals. Prerequisites: MS 251 and MS 290. (Not offered in 1972-73) Three credit hours
- MS 355 Complex Analysis** Staff
A study of the complex number system and its applications: differentiation and integration of complex-valued functions, the Cauchy integral theorem and formula, Taylor and Laurent series, singularities and residues, conformal mappings. Prerequisite: MS 251 or permission of instructor. (Not offered in 1972-73) Three credit hours

- MS 360 Computer Programming** Mr. Kratzer
Programming techniques using the FORTRAN language. Applications will be primarily from mathematics/statistics. Prerequisite: one year of calculus. Three credit hours
- MS 361 Numerical Analysis** Mr. Rogers
A study of the theory and application of computational algorithms for interpolation, equation solving, matrix methods, integration; error analysis. Prerequisites: MS 350 and MS 360. Three credit hours
- MS 362 Mathematical Statistics I** Mr. Rafter
Probability laws, random vectors and their distributions, generating functions, expected values, sampling, distributions. Prerequisite: MS 251 or MS 252. Three credit hours
- MS 363 Mathematical Statistics II** Mr. Rafter
A study of estimators, their generation and properties, classical hypothesis testing, selected topics from regression, correlation, analysis of variance, non-parametric methods, and Bayesian techniques. Prerequisite: MS 362. Three credit hours
- MS 364 Statistical Methods for Research** Staff
An applied methods course. Selected topics from analysis of variance and convariance, regression, correlation, non-parametric methods; factor analysis. The computer system is utilized, but programming is not necessary. Prerequisite: MS 120. (Not offered in 1972-73) Three credit hours
- MS 365 Design of Experiments** Staff
The study and application of the various factors used in conducting a statistical study; including block, split-plot, factorial designs; replication; some sampling methods. Applications. (Not offered in 1972-73) Three credit hours
- MS 366 Linear Programming** Staff
A study of matrix algebra applied to the problem of optimizing a linear function subject to linear inequity constraints, utilizing the simplex procedure. Prerequisite: MS 290. (Not offered in 1972-73) Three credit hours
- MS 370 College Geometry** Mr. Moulton
Selected topics from Euclidean geometry. Prerequisite: MS 290. Three credit hours
- MS 371 Projective Geometry** Staff
Synthetic and analytic projective geometry, including finite projective planes. Prerequisite: MS 290. (Not offered in 1972-73) Three credit hours
- MS 372 Non-Euclidean Geometry** Staff
A development of one or more of the non-Euclidean geometrics. Prerequisite: MS 290. (Not offered in 1972-73)
- MS 373 Differential Geometry** Staff
A first course in the metric differential geometry of curves and surfaces in Euclidean space. Prerequisite: MS 251. (Not offered in 1972-73) Three credit hours
- MS 375 Coordinate Geometry** Staff
The choice and role of coordinate systems in various geometries. (Not offered in 1972-73) Three credit hours
- MS 380 Linear Algebra** Mr. Brown, Mr. Chabot
An introduction to the theory of vector spaces and linear transformations. Prerequisite: MS 290 and consent of instructor. Three credit hours
- MS 382 Abstract Algebra** Mr. Brown, Mr. MacDonald
Algebraic structures, such as groups, rings, integral domains, and fields. Prerequisite: MS 290. Three credit hours
- MS 390 History of Mathematics** Staff
The development of mathematics from ancient to modern times. Prerequisites: MS 151 and MS 290. (Not offered in 1972-73) Three credit hours
- MS 450 Partial Differential Equations** Staff
An introduction to the general properties of partial differential equations followed by solutions of specific equations. The techniques include eigenfunction, expansions, operational methods, and conformal mapping. Prerequisite: MS 350. (Not offered in 1972-73) Three credit hours
- MS 480 Galois Theory** Staff
Theory of finite and infinite extensions of fields with application to the solution of equations by radicals. Prerequisites: MS 382 and permission of instructor. (Not offered in 1972-73) Three credit hours
- MS 490 Topology** Mr. MacDonald
An introduction to fundamental concepts in topology, including topological spaces, mappings, convergence, separation and countability, compactness, connectedness, metrization, and other selected topics. Prerequisites: MS 252 and MS 290. Three credit hours

- MS 492 Graph Theory and Finite Combinatorics** Mr. Guay
An introduction to the structures, concepts, and theorems of graph theory and a survey of finite combinatorial structures that can be viewed in a graphtheoretic framework. Prerequisite: MS 290. Three credit hours
- MS 495 Mathematical Problem Solving Techniques** Mr. Estes
Study of a variety of techniques used in the solution of verbal problems from algebra and calculus, geometric problems, non-verbal problems, and the use of analogies. Special emphasis will be given to Polya's Method. Prerequisite: Calculus or the permission of the instructor. (Not offered in 1972-73) Three credit hours
- MS 496 Problem Solving Research** Mr. Estes
Study of research concerning various approaches to problem solving in mathematics with emphasis on research. Study of research designs and construction of a design for a research project. Prerequisites: MS 495 and Statistics or permission of the instructor. (Not offered in 1972-73) Three credit hours
- MS 497 Independent Study in Mathematics** Staff
An opportunity for juniors and seniors who have demonstrated critical and analytical capability to pursue a project independently, charting a course and exploring an area of interest within their major field, bearing upon it previous course experiences and emerging with an intellectually sound, coherent synthesis. Prerequisite: junior or senior standing. One to three credit hours
- MS 498 Topics** Mr. Guay, Mr. Kratzer, Mr. Rafter
Selected topics in advanced mathematics. Prerequisite: permission of instructor. Three credit hours

COURSES IN MATHEMATICS EDUCATION

- MSED 430 Topics in the History of Mathematics for Elementary School Teachers** Mr. Estes
The history of certain topics in arithmetic, geometry, number theory and algebra. Prerequisite: MS 101 or the equivalent and teaching experience. (Offered in 1972-73 only by the Continuing Education Division) Three credit hours
- MSED 445 Teaching Mathematics in the Secondary School** Mr. Mainville, Mr. Moulton
Critical study of programs and techniques for teaching and learning mathematics in grades 7-12 for the slow, average, and advanced pupil. Prerequisite: senior standing. Three credit hours
- MSED 455 Analysis for High School Teachers I** Staff
The first of a two-semester sequence designed to give the experienced high school teacher a thorough background in elementary analysis. Topics included: properties of the real numbers, continuity, differentiation, and integration. Prerequisites: MS 251 and teaching experience. (Not offered in 1972-73) Three credit hours
- MSED 456 Analysis for High School Teachers II** Staff
A continuation of MS 455. Prerequisite: MS 455. (Not offered in 1972-73) Three credit hours
- MSED 475 Geometry for High School Teachers** Mr. Moulton
A careful development of Euclidean geometry and an introduction to various other geometries such as projective and non-Euclidean. Prerequisites: MS 290 and teaching experience. (NSF Institute) Three credit hours
- MSED 485 Abstract Algebra for Teachers** Staff
Algebraic properties of number systems; introduction to groups, rings, integral domains, polynomial rings, and fields. Prerequisites: MS 290 and teaching experience. (Not offered in 1972-73) Three credit hours
- MSED 486 Linear Algebra for Teachers** Staff
A course covering the fundamental ideas of vectors, matrices, and linear transformations with special emphasis on applications and interpretations of relevance to the secondary curriculum. (Not offered in 1972-73) Three credit hours
- MSED 499 Problem Solving in Mathematics: A Computer Approach** Mr. Estes
An introduction to programming, with applications directed towards problem solving in mathematics in the secondary level. (NSF Institute participation) Three credit hours

Music

Professors J. Bowder, Brown (Chairman); Associate Professors G. Chamberland, Puopolo; Assistant Professors R. Cole, Heel.

APPLIED MUSIC INSTRUCTORS

| | |
|---------------------------|----------------------------|
| Piano: Majorie Arnold | Flute: Frances Drinker |
| Nina B. Bailey | |
| Naydene Bowder | Oboe: Roberta Barker |
| Ronald Cole | |
| Ocy Downs | Clarinet: Burchard Tainter |
| Richard Roberts | |
| Voice: Gerard Chamberland | Saxophone: Joseph LaFlamme |
| Jeannette Chamberland | Burchard Tainter |
| Frank Hoffmeister | |
| Stewart Shuster | Bassoon: Donald Curry |
| Johanna von Tiling | |
| Organ: John Fay | Trumpet: Vito Puopolo |
| Violin: Rebecca Garland | Calvin Torrey |
| Steve Kecskmeshty | French Horn: Robert Miller |
| Ronald Lantz | Trombone: Donald Doane |

The Department of Music offers a number of music groups open to all students and several two-semester courses primarily for non-majors, as well as providing for concentrated study in the areas of music history and theory, performance, and music education. The College of Liberal Arts offers a major in Music, details of which may be obtained from the Music Department office. The Music Education program of the School of Education is described below.

CURRICULUM FOR MUSIC EDUCATION MAJORS

General Education

All students are reminded that, in addition to their meeting departmental requirements for a major leading to a baccalaureate degree, they must also meet the requirements of the school or college involved, as well as the University's General Education Requirements and the Physical Education Requirements. These general requirements are printed inside the front cover of this catalog. In addition to the General Education Requirements, Music Education majors will be required to take (a) either General Psychology or Human Growth and Development and (b) Philosophy of Education.

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 a solo recital in the 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 each semester. Where possible, a student will participate in both a vocal and instrumental ensemble.

Piano Proficiency Requirement

Each student shall be required to successfully complete the piano proficiency requirement before the semester of student teaching. The student must enroll in applied piano each semester until the requirement is met. If the piano proficiency has not been met at the end of four semesters, the student will continue applied piano for no credit and at the student's own expense.

New students who feel prepared to meet the requirement may schedule an exam during the orientation period. Thereafter, exams will be offered at the end of each semester and may be taken whenever the student and the applied teacher feel that the student is qualified.

Requirements for the piano proficiency exam are as follows:

1. Be prepared to play all major and minor scales (2 octaves, hands together)
2. Play a prepared piece of the student's choice of at least the difficulty of a Sonatina by Clementi or Kuhlau
3. Offer evidence of study of a representative selection of piano literature
4. Sight read:
 - a. Melody with chord symbols
 - b. Hymn style composition
5. Play from memory:
 - a. The Star Spangled Banner (Key of A flat)
 - b. America (Key of F)
 - c. America the Beautiful (Key of B flat)

Professional Education

In addition to the basic 18 credit hours in professional education, Music Education majors will complete the following:

| | |
|------------------|--------------------------------------|
| MUED 220 | Woodwind Class |
| MUED 221 | Brass and Percussion Class |
| MUED 320 and 321 | String Class |
| MUED 322 and 323 | Music Education Methods |
| MUED 420 | Music Administration and Supervision |

Student teaching is the culmination of a comprehensive pre-professional sequence of activities which includes the following:

1. One day of directed observation of music education in cooperating schools in surrounding areas. Freshman music education students are accompanied by senior music student teachers.
2. Five hours of assisting classroom teachers in music during the Sophomore year. Music education students serve in a capacity similar to teacher aides.
3. Elementary and secondary methods courses during Junior year wherein students observe, plan and teach using actual classroom situations.
4. Student-teaching in senior year which encompasses both elementary and secondary as well as instrumental and vocal areas.

Area Specialization

The music content program consists of the following courses:

| | |
|--|---|
| MUS 120, 121, 220, 221 | History of Music |
| MUS 130, 131, 230, 231 | Theory |
| MUS 140, 141, 240, 241, 340, 341, 440, 441 | Instrumental and Vocal Conducting Ensembles |
| MUS 142, 143, 242, 243, 342, 343, 442, 443 | Recital Class |
| MUS 150, 151, 250, 251, 350, 351, 450, 451 | Applied Music |
| MUS 344 | Instrumental Conducting |
| MUS 345 | Vocal Conducting |

MUSIC EDUCATION CURRICULUM

| <i>Freshman Year</i> | | <i>Credit hours</i> |
|-----------------------|--|---------------------|
| MUS 120 and 121 | History of Music I and II | 6 |
| MUS 130 and 131 | Theory I and II | 6 |
| MUS 140 and 141 | Instrumental and Vocal Conducting Ensemble | 1 |
| MUS 142 and 143 | Recital Class | 1 |
| MUS 150 and 151 | Applied Music | 8 |
| | Ensembles | 2 |
| | General Education Requirements | 9 |
| | Physical Education | |
| | | <hr/> 34 |
| <i>Sophomore Year</i> | | |
| MUS 220 and 221 | History of Music III and IV | 6 |
| MUS 230 and 231 | Theory III and IV | 6 |
| MUS 240 and 241 | Instrumental and Vocal Conducting Ensemble | 1 |
| MUS 242 and 243 | Recital Class | 1 |
| MUS 250 and 251 | Applied Music | 8 |
| MUED 220 | Woodwind Class | 2 |
| MUED 221 | Brass and Percussion Class | 3 |
| | Ensembles | 2 |
| | General Education Requirements | 6 |
| | | <hr/> 35 |
| <i>Junior Year</i> | | |
| MUS 344 | Instrumental Conducting | 2 |
| MUS 345 | Vocal Conducting | 2 |
| MUS 340 and 341 | Instrumental and Vocal Conducting Ensemble | 1 |
| MUS 342 and 343 | Recital Class | 1 |
| MUS 350 and 351 | Applied Music | 8 |
| MUED 320 and 321 | String Class | 4 |
| MUED 322 and 323 | Music Education Methods | 6 |
| | Ensembles | 2 |
| | General Education Requirements | 9 |
| | | <hr/> 35 |
| <i>Senior Year</i> | | |
| MUS | Orchestration | 3 |
| MUS 440 and 441 | Instrumental and Vocal Conducting Ensemble | $\frac{1}{2}$ |
| MUS 442 and 443 | Recital Class | $\frac{1}{2}$ |
| MUED 420 | Music Administration and Supervision | 3 |
| | Ensembles | 1 |
| | General Education Requirements | 12 |
| EDU 324 | Student Teaching | 12 |
| | | <hr/> 32 |

The Music Education Curriculum requires a total of 136 hours.

COURSE DESCRIPTIONS

Music Courses Primarily for Non-Majors

- MUS 100 Music Appreciation and History** Staff
 A survey of music from the Gregorian Chant to the modern times, covering musical practices of the Renaissance, Baroque, Classical, Romantic, and Contemporary periods. Representative works by the outstanding composers of each period. Open to all students.
Three credit hours
- MUS 200 Music History I** Mr. Puopolo
 The first in a sequence of two courses providing a study of music from antiquity to the present day. MUS 200 deals with the history of music prior to 1750. Three credit hours
- MUS 201 Music History II** Mr. Puopolo
 The second in a sequence of two courses providing a study of music from antiquity to the present day. MUS 201 deals with the history of music from 1750 to the present.
Three credit hours
- MUS 202 Music in America** Mr. Cole
 A survey of the important trends in music from Colonial days to the present. Emphasis will be placed on the role of the native American composer in the development of sacred music, concert music, jazz, musical comedy, and pop music. Three credit hours
- MUS 210 Fundamentals of Music** Staff
 A background study of concepts and skills essential to an intelligent reading of music. The development of natural musical abilities through participating in singing, rhythmic activities, and instrumental work. An appreciation of music through awareness of basic structures. Open to all students. Two credit hours
- MUS 211 Class Piano** Mr. Cole
 Practical class piano for the elementary teacher with little or no piano background. Course covers note reading, scales, accompaniment of simple songs, transposition, and sight reading. Open to all students. Two credit hours

Music Performance Groups Open to all Students

- MUSP 100 Chamber Orchestra** Mr. Bowder
One-half credit hour
- MUSP 101 The Gorham Choral** Mr. Chamberland
 A choral group of a hundred students from all departments; specializes in larger choral works with orchestral accompaniment; several campus performances and occasional tours.
One-half credit hour
- MUSP 102 University Concert Band** Staff
One-half credit hour
- MUSP 103 A Cappella Choir** Mr. Cole
 A chorus of twenty-five to thirty-five members open to all students, specializing in literature intended for small choral ensembles; at least one performance is given each semester.
One-half credit hour
- MUSP 104 Brass Ensemble** Mr. Bowder
One-half credit hour
- MUSP 105 The Chamber Singers** Mr. Chamberland
 A select group of twenty-five singers specializing in music from the Renaissance to the Contemporary. Extensive touring throughout the state. One-half credit hour
- MUSP 106 Chorus** Mr. Puopolo
 Open to all qualified students. Two meetings per week. Attendance at all rehearsals and public performances is required. May be repeated for credit each semester.
One-half credit hour each semester

Music History and Theory

- MUS 120 History of Music I** Mr. Chamberland
 Medieval and Renaissance Periods: historical development and musical practices from the Gregorian chant and early polyphony through the culmination of the madrigal in England. Musical examples of outstanding composers are played, analyzed, and discussed.
Three credit hours
- MUS 121 History of Music II** Mr. Chamberland
 Baroque Period; continuation of MUS 120, from the establishment of opera in Italy and the rise of instrumental music, to the culmination of polyphony in the works of J. S. Bach.
Three credit hours

MUS 130 Music Theory I

Mr. Bowder

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

Three credit hours

MUS 131 Music Theory II

Mr. Bowder

Triads in first and second inversion; modulation; non-harmonic tones (passing, auxiliary, appoggiature, suspension, and anticipation); dominant seventh chord (root position inversion, regular and irregular resolutions); related dictation and keyboard application.

Three credit hours

MUS 220 History of Music III

Mr. Cole

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

Three credit hours

MUS 221 History of Music IV

Mr. Cole

Contemporary Period; continuation of MUS 220, from Impressionism to recent tendencies. Melodic, harmonic, rhythmic, and structural features of the twentieth century American and European music and their relationship to tradition.

Three credit hours

MUS 230 Music Theory III

Mr. Bowder

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

Three credit hours

MUS 231 Music Theory IV

Mr. Bowder

Contemporary techniques of composition; modern harmony, theory, and related studies. Two part counterpoint and related forms of the eighteenth century.

Three credit hours

MUS 460 Independent Study in Music

Staff

To provide juniors and seniors who have demonstrated critical and analytical capability an opportunity to pursue a project independently, charting a course and exploring an area of interest within their major field.

One to three credit hours

Music Performance Courses

MUS 140 Instrumental Ensemble for Freshmen, Part I

Mr. Bowder

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

One-half credit hour

MUS 141 Vocal Ensemble I

Mr. Chamberland

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

One-half credit hour

MUS 142 Recital Class for Freshmen, Part I

Mr. Chamberland

Performance in major field, stage deportment, and evaluation of performances. Restricted to freshmen.

One-half credit hour

MUS 143 Recital Class for Freshmen, Part II

Mr. Chamberland

A continuation of MUS 142.

One-half credit hour

MUS 150 Applied Music for Freshmen, Part I

Staff

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

Four credit hours

MUS 151 Applied Music for Freshmen, Part II

Staff

A continuation of MUS 150.

Four credit hours

MUS 240 Instrumental Ensemble for Sophomores, Part I

Mr. Bowder

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

One-half credit hour

MUS 241 Vocal Ensemble II

Mr. Chamberland

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

One-half credit hour

- MUS 242 Recital Class for Sophomores, Part I** Mr. Chamberland
Performance in major field, stage deportment, and evaluation of performances. Restricted to sophomores. One-half credit hour
- MUS 243 Recital Class for Sophomores, Part II** Mr. Chamberland
A continuation of MUS 242. One-half credit hour
- MUS 250 Applied Music for Sophomores, Part I** Staff
May be taken in piano, voice, or any orchestra or band instrument. One lesson per week in the major performance area (3 credits). Also one half-hour lesson in the minor performance area (1 credit) in fulfillment of applied music requirements. Restricted to sophomores. Four credit hours
- MUS 251 Applied Music for Sophomores, Part II** Staff
A continuation of MUS 250. Four credit hours
- MUS 340 Instrumental Ensemble for Juniors, Part I** Mr. Bowder
Performance techniques on instruments of primary and/or secondary interest to each student. Principles of ensemble training are exemplified. The repertoire consists of selections from various periods and styles and is varied from year to year in order to cover a considerable range during the student's attendance. Restricted to juniors. One-half credit hour
- MUS 341 Vocal Ensemble III** Mr. Chamberland
Emphasizing singing technique and interpretation and an exploration of choral literature of various periods and styles. Principles of choral training are exemplified. The repertoire is varied from year to year so that the course covers a considerable range during a given student's attendance. One-half credit hour
- MUS 342 Recital Class for Juniors, Part I** Mr. Chamberland
Performance in major field, stage deportment, and evaluation of performances. Restricted to juniors. One-half credit hour
- MUS 443 Recital Class for Seniors, Part II** Mr. Chamberland
A continuation of MUS 342. One-half credit hour
- MUS 344 Instrumental Conducting** Mr. Bowder
Practical conducting experiences; score reading, basic beat patterns, and interpretation. Two credit hours
- MUS 345 Vocal Conducting** Mr. Chamberland
Organization, training, and directing of choruses and glee clubs in high schools and junior high schools. Study and practice in rehearsal techniques, problems of diction, and emphasis on textual delivery. Two credit hours
- MUS 350 Applied Music for Juniors, Part I** Staff
May be taken in piano, voice, or any orchestra or band instrument. One lesson per week in the major performance area (3 credits). Also one half-hour lesson in the minor performance area (1 credit) in fulfillment of applied music requirements. Restricted to juniors. Four credit hours
- MUS 351 Applied Music for Juniors, Part II** Staff
A continuation of MUS 350. Four credit hours
- MUS 420 Orchestration** Mr. Bowder
A study of the nature of the various instruments. Practice in scoring for instrumental combinations, orchestra, and band. Three credit hours
- MUS 440 Instrumental Ensemble for Seniors, Part I** Mr. Bowder
Performance techniques on instruments of primary and/or secondary interest to each student. Principles of ensemble training are exemplified. The repertoire consists of selections from various periods and styles and is varied from year to year in order to cover a considerable range during the student's attendance. Restricted to seniors. One-half credit hour
- MUS 441 Vocal Ensemble IV** Mr. Chamberland
Emphasizing singing technique and interpretation and an exploration of choral literature of various periods and styles. Principles of choral training are exemplified. The repertoire is varied from year to year so that the course covers a considerable range during a given student's attendance. One-half credit hour
- MUS 442 Recital Class for Seniors, Part I** Mr. Chamberland
Performance in major field, stage deportment, and evaluation of performances. Restricted to seniors. One-half credit hour
- MUS 443 Recital Class for Seniors, Part II** Mr. Chamberland
A continuation of MUS 442. One-half credit hour
- MUS 450 Applied Music for Seniors, Part I** Staff
May be taken in piano, voice, or any orchestra or band instrument. One lesson per week in the major performance area (3 credits). Also one half-hour lesson in the minor performance area (1 credit) in fulfillment of applied music requirements. Restricted to seniors. Four credit hours

- MUS 451 Applied Music for Seniors, Part II** Staff
 A continuation of MUS 450. Four credit hours
- MUS 460 Independent Study in Music** Staff
 To provide juniors and seniors who have demonstrated critical and analytical capability an opportunity to pursue a project independently, charting a course and exploring an area of interest within their major field. One to three credit hours

Music Education

- MU ED 200 Music for the Classroom Teacher** Staff
 An activities course combining the study of music fundamentals with the teaching of music skills through sequential grade-to-grade development. This course has no prerequisites and is designed primarily for the non-music major. Three credit hours
- MU ED 220 Woodwind Class** Mr. Tainter
 Methods of teaching woodwind instruments; practical experience on various woodwinds; and elements of transposition. Two credit hours
- MU ED 221 Brass and Percussion Class** Staff
 Methods of teaching brass and percussion instruments including practical experience on the various instruments; elements of transposition. Three credit hours
- MU ED 320 String Class — Violin** Mrs. Garland
 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
- MU ED 321 String Class — Ensemble** Miss Heel
 String ensemble methods and materials for beginning strings. Fundamentals of violin, cello, and string bass. Rudiments of fingering, bowing, and tone production. Two credit hours
- MU ED 322 Elementary Music Methods and Materials** Miss Heel
 Study of methods and materials in present elementary school music education, including those of Kodaly and Orff. Three credit hours
- MU ED 323 Secondary Music Methods and Materials** Miss Heel
 Study of approved methods and materials of music education in junior and senior high schools. Continuation of MU ED 322. Three credit hours
- MU ED 420 Music Administration and Supervision** Miss Heel
 Designed to present an integrated picture of philosophies of administration, and to resolve problems encountered in student teaching. Three credit hours

Philosophy

Professor MacLeod; Associate Professors F. Schwanauer, Gavin (Chairman); Assistant Professor Grange.

Courses in philosophy are designed primarily to provide students with sound principles of critical thinking, to help them acquire a knowledge of the development and problems of philosophic thought, and to lead them to formulate an intelligent view of the meaning and value of life in terms of their own experience.

The study of philosophy has traditionally been one which endeavors to give the broadest understanding possible of a true liberal education and has placed little emphasis on the vocational utility of such a study. However, students have found a philosophical background useful for all vocations.

The major in philosophy is designed to meet the following requirements: (1) Those who wish to derive the broadest liberal education through the study of philosophy, but have no professional interest in the field; (2) those who desire a broadly-based liberal education preparatory to graduate study in a field other than philosophy; for example, medicine, law, theology, or government; (3) those who, by reason of professional interest in philosophy, plan to do graduate work and teach in the field.

Each major in philosophy will arrange a program of courses in conference with the discipline head. The program will be designed in terms of the stu-

dent's interests, needs, vocational plans, and the year in which the student declares a major. The major will require 24 hours of courses beyond a PLY 100-level course.

Every major intending to pursue graduate study and teach in philosophy will be expected to take German or French through the intermediate level. German is preferred to French, although ideally both sets of courses should be taken.

In the senior year, the following are required: (1) A senior paper to be written in connection with participation in the Senior Tutorial. This paper is to deal with an area of philosophy not covered by courses taken by the student. (2) A comprehensive oral examination based on the Senior Tutorial paper. (3) The Graduate Record Examination in philosophy, for those intending to go on to graduate school in philosophy.

Any introductory Philosophy course is a prerequisite to all other courses in philosophy.

COURSE DESCRIPTIONS

PLY 101 Introduction to Philosophy: Man and His Will Mr. Schwanauer

Is there a human will at all? This course will concentrate on the issue of freedom vs. determinism. The importance of the human will insofar as it influences views of experience, politics, society, etc., will also be considered.

Three credit hours

PLY 102 Introduction to Philosophy: Counter Culture Mr. Gavin

An examination of the supposed connection between technocracy, impartiality and objectivity. The history of philosophy will be utilized to trace the identification of true knowledge with "certainty." An analysis of twentieth century alternatives, including existentialism, pragmatism, and various views of the counter culture, will be undertaken.

Three credit hours

PLY 103 Introduction to Philosophy: The Alienation of Man Mr. Grange

Why does modern man picture himself as alienated from nature and his fellow man? How did the problem of alienation come about? What possibilities exist for overcoming it? This course will deal with these issues and attempt to suggest viable alternatives.

Three credit hours

PLY 104 Introduction to Philosophy: Ways of Knowing Staff

How much can we really know? Consideration will be given to some theories of knowledge and how they may be applied to science and human relations. The writings of some philosophers will be critically examined by way of illustration.

Three credit hours

PLY 105 Introduction to Philosophy: Man and Morals Mrs. Pic'l

This discussion course, based on the theme of how one should live, is designed to actively engage the student in the critical examination and the justification of personal values within the context of possible alternative values suggested by Plato, Zen Buddhism, Kant, existentialism, and others.

Three credit hours

PLY 200 Symbolic Logic Mr. Schwanauer

Techniques of modern deductive logic; properties of formal systems; logical implications and paradoxes of language. Prerequisite: any PLY 100-level course.

Three credit hours

PLY 210 Ethical Theories Mr. Schwanauer

Critical evaluation of major ethical theories and systems. Extensive reading in original texts. Analysis of contemporary ethical issues. Prerequisite: any PLY 100-level course.

Three credit hours

PLY 220 Aesthetics Mr. Gavin

Inquiry into the question of whether aesthetic experience is intelligible, or emotional, or both; examination of various theories and interpretations, classic and contemporary. Prerequisite: any PLY 100-level course.

Three credit hours

PLY 230 Philosophy of Religion Staff

Analysis of the nature of religious experience, knowledge, and language. Special attention given to problems, classical and contemporary, exhibited in religious experience, and relevant to areas of common concern in the sciences, humanities, and philosophy. Prerequisite: any PLY 100-level course.

Three credit hours

PLY 240 Political Philosophy Mr. Grange

Critical evaluation of political philosophies, classical and contemporary; extensive reading

in original texts; analysis of contemporary political issues. Prerequisite: any PLY 100-level course. Three credit hours

PLY 250 Philosophy of Science Mr. Gavin

Nature of scientific explanation; relationship among facts, laws, and theories; clarification of methods and concepts in science, such as cause, determinism, teleology, theory, law, probability. Prerequisite: any PLY 100-level course. Three credit hours

PLY 290 Problems of Philosophy Staff

Consideration of selected problems or systems of philosophical significance, including general problems of metaphysics, epistemology, axiology, specialized areas, etc. Prerequisite: any PLY 100-level course. Three credit hours

PLY 299 (see HIST 377)

This course meets the requirements for a major either in history or philosophy.

PLY 310 History of Ancient Philosophy Mr. Gavin

Philosophic thought from the pre-Socrates to the late Hellenistic period, with major emphasis on Plato and Aristotle. Prerequisite: any PLY 100-level course. Three credit hours

PLY 320 History of Medieval Philosophy Mr. Grange

The merger of the philosophic with the religious stream; ideas of Augustine, Thomas Aquinas, Duns Scotus, and others critically examined; determining cultural factors explored. Prerequisite: a PLY 100 course, PLY 310. Three credit hours

PLY 330 History of Early Modern Philosophy Mr. Grange

Main currents of rationalism and empiricism are explored, as developed in major writings from Descartes to Hume. Prerequisite: Any PLY 100-level course. Three credit hours

PLY 340 History of Late Modern Philosophy Mr. Schwanauer

Development of German idealism; emergence of social and scientific philosophies; contributions of Kant, Hegel, Schopenhauer, Nietzsche, Feuerbach, and others. Prerequisite: PLY 330. Three credit hours

PLY 350 American Philosophy Mr. Gavin

History and background of the origin of philosophical ideas in America; particular emphasis given to Peirce, James, Royce, Dewey, Whitehead. Prerequisite: any PLY 100-level course. Three credit hours

PLY 360 Existentialism Mr. Grange

An examination of the historical development and basic themes of existentialism as found in the writings of its major representatives: Kierkegaard, Nietzsche, Heidegger, Jaspers, Buber, Marcel, and others. Prerequisite: any PLY 100-level course. Three credit hours

PLY 400, 401, 402 Seminar in Philosophy Staff

These numbers are used to indicate seminar courses dealing with a specified topic or person in philosophy. Topics or individual philosophers will change from year to year and may or may not be repeated. The prerequisite for any 400 level seminar course is two 300 level courses in Philosophy. In 1971-72, the following seminars were given: PLY 400, Seminar: Heidegger; PLY 401, Seminar: John Dewey; PLY 402, Seminar: Hegel. In 1972-73, the following seminar will be given: PLY 400; Seminar: Nietzsche.

PLY 410 Senior Tutorial Staff

Designed to furnish senior philosophy majors with extensive training, under tutorial supervision, in analysis of a philosophical problem or system not generally covered by regular department offerings, with a view to producing and presenting a senior paper for oral defense. Prerequisites: senior standing, advanced standing, and permission of the department. Credit hours to be arranged

Physical Sciences and Engineering

Professors Kirwin, M. Whitten; Associate Professors Armentrout, Grass, Hare, Hopkinson, Miller, A. Smith (Chairman), Sottery, Walkling; Assistant Professors Ayers, Novak, Pendleton, Un.

Courses offered by the Department of Physical Sciences and Engineering are grouped under the following headings:

ASTRONOMY

CHEMISTRY

EARTH SCIENCE

ENGINEERING (including the
Master of Engineering program)

GENERAL SCIENCE (including
Geology, Meteorology, and
Oceanography)

PHYSICAL SCIENCE

PHYSICS

A Science Area Major in Secondary Education, including a selection of both biological and physical sciences, and intended primarily for students planning to teach in grades seven through nine, is coordinated by this department and requires completion of a minimum of 50 credit hours, as outlined below.

Students in the Kindergarten-Primary or Elementary programs of the School of Education may obtain an academic major requiring 30 credit hours of approved biological and physical science courses in the Science Area, but the Science Area Minor of 18 credit hours is more commonly selected by such students. The latter program is outlined below, immediately after the outline for the Secondary Education major program.

No major is currently offered in this area for students in the College of Liberal Arts. For students who ultimately desire to major in either Chemistry, Engineering, or Physics, the first two years of work are available at the University of Maine at Portland-Gorham, but the third and fourth years of such work are currently available only at the Orono campus of the University of Maine.

All students are reminded that, in addition to their meeting departmental requirements for a major leading to a baccalaureate degree, they must also meet the requirements of the school or college involved, as well as the University's General Education Requirements and the Physical Education Requirements. These general requirements are printed inside the front cover of this catalog.

REQUIREMENTS FOR A SCIENCE AREA MAJOR IN SECONDARY EDUCATION

The Science Area Major in Secondary Education requires completion of a minimum of 50 credit hours and provides for a broad preparation in several fields. This major is intended primarily for those students planning to teach in grades seven through nine. Completion of this program and required courses in education, including those needed to meet the UMPG general requirements, enables one to receive the State of Maine Secondary Science Area Certificate.

Freshman Year

Freshmen should take one of the following sequences, together with a selection of other courses needed to meet the General Education Requirements and Physical Education Requirements of UMPG, together with appropriate courses from those required by the School of Education. Any electives in the Science area should be chosen to meet the requirements of Groups A, B, C, and the other electives listed below. A student should plan to take 8 hours of chemistry and 8 hours of physics by the end of the sophomore year.

One Sequence to Be Chosen:

| | | <i>Credits</i> |
|------------------|---|----------------|
| CHEM 111 and 112 | General Chemistry (4 credits each semester) | |
| or | to be taken as a two-semester sequence | 8 |
| CHEM 113 and 114 | Chemical Principles (4 credits each semester) | |
| or | to be taken as a two-semester sequence | 8 |
| PHYS 111 and 112 | Elements of Physics (4 credits each semester) | |
| or | to be taken as a two-semester sequence | 8 |
| PHYS 121 and 122 | General Physics (4 credits each semester) to | |
| | be taken as a two-semester sequence | 8 |

Sophomore Year

| | | |
|-----------------|---|---|
| BIO 101 and 102 | Biological Principles (3 credits) plus Biological Experiences (1 credit) to be taken together | 4 |
|-----------------|---|---|

Freshman, Sophomore, Junior, or Senior Years

Group A — 28 Credit Hours Required

| | | |
|--------------------------------------|--|---|
| CHEM 111 and 112 or CHEM 113 and 114 | General Chemistry (4 credits each semester) or Chemical Principles (4 credits each semester) | 8 |
| PHYS 111 and 112 or PHYS 121 and 122 | Elements of Physics (4 credits each semester) or General Physics (4 credits each semester) | 8 |
| GEOL 111 | Physical Geology | 3 |
| GEOL 112 | Historical Geology | 3 |
| ASTR 100 | Astronomy | 3 |
| MET 100 | Meteorology | 3 |

Group B — 8 Credit Hours Required

| | | |
|---|--|--------|
| BIO 215 and 216 or BIO 225 and 226 | Vascular Botany (3 credits) plus Vascular Field Botany (1 credit) to be taken together Non-vascular Botany (3 credits) plus Non- vascular Field Botany (1 credit) to be taken together | 4 4 |
| BIO 351 and 352 | Invertebrate Zoology (3 credits) plus Survey of Invertebrates (1 credit) to be taken together | 4 |
| Or other course(s) in Biology acceptable to the adviser | | 4 |

Group C — 3 Credit Hours Required

| | | |
|----------|--------------------|---|
| ESCI 202 | Conservation | 3 |
| PSCI 310 | History of Science | 3 |
| BIO 251 | History of Biology | 3 |

Electives

To complete the required 50 hours for the major, the student may choose from courses listed above which have not been taken previously and from the following electives:

| | | |
|-----------------|--|---|
| BIO 103 and 104 | Biological Diversity (3 credits) plus Survey of Animals and plants (1 credit) to be taken together | 4 |
| BIO 111 and 112 | Human Anatomy and Physiology (3 credits) plus Practical Anatomy and Physiology (1 credit) to be taken together | 4 |
| BIO 201 | Principles of Genetics | 3 |
| BIO 292 | Ornithology | 2 |
| BIO 311 and 312 | Microbiology (3 credits) plus Microbiological Laboratory (2 credits) to be taken together | 5 |
| BIO 331 and 332 | Ecological Principles (2 credits) plus Field Ecology (1 credit) to be taken together | 3 |
| BIO 372 | Biological Techniques | 2 |
| BIO 381 and 382 | Ichthyology (2 credits) plus Field Ichthyology (2 credits) to be taken together | 4 |

| | | |
|------------------|--|---|
| BIO 461 | Cell Mechanisms | 3 |
| BIO 481 | Cellular Biology | 3 |
| BIO 205 | Evolution | 3 |
| CHEM 201 | Organic Chemistry | 4 |
| CHEM 202 | Introduction to Biochemistry | 4 |
| CHEM 251 and 261 | Organic Chemistry (3 credits) plus Organic Chemistry Laboratory (2 credits) to be taken together | 5 |
| ESCI 101 and 102 | Earth Science (3 credits each semester) to be taken as a two-semester sequence | 6 |
| ESCI 200 | Environmental Science | 3 |
| ESCI 201 | Natural Science | 3 |
| GEOL 201 | Structural Geology | 3 |
| GEOL 203 | Mineralogy | 3 |
| OCN 100 | Oceanography | 3 |
| PHYS 210 | Introductory Modern Physics | 4 |
| PHYS 221 | Intermediate Physics | 4 |
| PHYS 390 | Independent Physics Laboratory | 3 |

NOTE: In addition to the 50 hours of course work selected above, SCED 300, Teaching Science in the Secondary School, is required of all Science Area Majors in Secondary Education.

REQUIREMENTS FOR A SCIENCE AREA MINOR AND MAJOR FOR STUDENTS IN THE KINDERGARTEN-PRIMARY OR ELEMENTARY EDUCATION PROGRAMS

**Minor – 18 Hours (Required Courses – 6 Credit Hours or equivalent –
Electives – 12 Credit Hours)**

| | | |
|----------|------------------------------|---|
| PSCI 110 | Elements of Physical Science | 3 |
| BIO 101 | Biological Principles | 3 |

**Major – 30 Hours (Required Courses – 20 Credit Hours. Electives –
10 Credit Hours)**

| | | |
|----------|------------------------------|---|
| PSCI 110 | Elements of Physical Science | 3 |
| BIO 101 | Biological Principles | 3 |
| BIO 102 | Biological Principles Lab | 1 |
| ASTR 100 | Astronomy | 3 |
| GEOL 111 | Physical Geology | 3 |
| MET 100 | Meteorology or | 3 |
| OCN 100 | Oceanography | 3 |
| BIO 103 | Biological Diversity | 3 |
| BIO 104 | Biological Diversity Lab | 1 |

Elective Courses – (any Science Course)

| | | |
|-----------------|--|---|
| ASTR 100 | Astronomy | 3 |
| BIO 103 and 104 | Biological Diversity (3 credits) plus Survey of Animals and Plants (1 credit) to be taken together | 4 |

| | | |
|------------------|--|---|
| BIO 111 and 112 | Human Anatomy and Physiology (3 credits) plus Practical Anatomy and Physiology (1 credit) to be taken together | 4 |
| BIO 201 and 202 | Principles of Genetics (3 credits) plus Experimental Genetics (2 credits) to be taken together | 5 |
| BIO 205 | Evolution | 3 |
| BIO 215 and 216 | Vascular Botany (3 credits) plus Vascular Field Botany (1 credit) to be taken together | 4 |
| BIO 225 and 226 | Non-vascular Botany (3 credits) plus Non-vascular Field Botany (1 credit) to be taken together | 4 |
| BIO 351 and 352 | Invertebrate Zoology (3 credits) and Survey of Invertebrates (1 credit) to be taken together | 4 |
| CHEM 101 and 102 | Modern Chemistry (4 credits each semester) to be taken as a two-semester sequence | 8 |
| CHEM 111 and 112 | General Chemistry (4 credits each semester) to be taken as a two-semester sequence | 8 |
| ESCI 101 and 102 | Earth Science (3 credits each semester) to be taken as a two-semester sequence | 6 |
| ESCI 200 | Environmental Science | 3 |
| ESCI 201 | Natural Science | 3 |
| ESCI 202 | Conservation | 3 |
| GEOL 111 | Physical Geology | 3 |
| GEOL 112 | Historical Geology | 3 |
| GEOL 201 | Structural Geology | 3 |
| MET 100 | Meteorology | 3 |
| OCN 100 | Oceanography | 3 |
| PHYS 111 and 112 | Elements of Physics (4 credits each semester) to be taken as a two-semester sequence | 8 |
| PHYS 121 and 122 | General Physics (4 credits each semester) to be taken as a two-semester sequence | 8 |
| GSCI 310 | History of Science | 3 |
| PSCI 400 | Science and Society | 3 |

ASTRONOMY

COURSES IN ASTRONOMY

ASTR 100 Astronomy

Mr. Ayers

A course largely descriptive and non-mathematical in nature, with emphasis on practical work. A survey of the solar system with emphasis on recent observational procedures and data. Stellar astronomy including composition, distribution, and evolution of stars. Theories of the universe. Open to all students. Three credit hours

ASTR 109 Introduction to Astronomy

Staff

A non-mathematical survey of modern astronomy. Among the topics covered are observing instruments and techniques, origin and characteristics of the planetary system, properties and evolution of stars, galaxies, cosmology, and the possibility of other life in the Universe. Unsolved problems and areas of current research are emphasized. Planetarium sessions and optional observatory field trips supplement the lecture materials. Three credit hours

CHEMISTRY

The field of chemistry is concerned with the structure of matter and its transformations. The chemistry curriculum is intended to prepare the student eventually to be a professional chemist. In order to accomplish this purpose the program must have sufficient breadth so that the graduate will be able to go into industrial chemistry, teaching, research, or graduate study.

Presently, a standard four-year major program is not available at UMPG. Students who wish to enter a standard chemistry major program should plan to transfer to the Orono branch of the university for the junior and senior years. (Such students should contact the chairman of the chemistry department at UMO concerning current departmental major requirements.) Courses in analytical and physical chemistry will be offered as soon as physical facilities become available. The inclusion of these courses in the chemistry offering would allow students with primary interest in chemistry to pursue innovative major programs in the department of physical sciences and engineering. Since chemistry is fundamental to so many areas, the department intends to offer a wide choice of electives so that such students with interest in the fields of mathematics, physics, ecology, geology, or biological chemistry may have special programs tailored to help them attain their educational goals.

A variety of career opportunities in the industrial field are open to students who complete a major program in chemistry. Some examples are process development, production, quality control, and sales. The opportunities to engage in research and college level teaching are in general available only to the student who has pursued successful graduate study.

Instruction in chemistry is given by lectures, recitations, and supervised laboratory work which is an indispensable part of the training of professional chemists. While much laboratory work is individual in nature, students are encouraged to consult with one another regarding observations and conclusions.

COURSES IN CHEMISTRY

CHEM 101 Modern Chemistry I

An introduction to some modern chemical theories and concepts. Topics selected for study emphasize the relationship of chemistry to life systems and the environment. Recommended for students of life sciences and environmental studies who require a foundation for further consideration of the chemistry of living systems, and for non-science majors who wish to enhance their understanding of chemistry and its role in survival of life. Prerequisite: previous study of chemistry is helpful but not required.

Mr. Sottery

Four credit hours

CHEM 102 Modern Chemistry II

A continuation of the studies initiated in CHEM 101. Recommended as a prerequisite for CHEM 201. Prerequisite: CHEM 101.

Mr. Sottery

Four credit hours

CHEM 111 General Chemistry I

A study of selected fundamental concepts and theories of chemistry. Atomic structure, periodic classification, chemical bonding, molecular structure, chemical reactions, and equilibria are discussed.

Mr. Whitten

Four credit hours

CHEM 112 General Chemistry II

A continuation of the topics presented in CHEM 111. Prerequisite: CHEM 111.

Mr. Whitten

Four credit hours

CHEM 113 Chemical Principles I

An intensive examination of modern chemistry, comprising structural theory (atomic and molecular levels), stoichiometry, chemical kinetics and equilibrium, colligative properties, elementary thermodynamics, ionic equilibria, and electrochemistry. A sound preparation in mathematics (logarithms, exponents, linear and quadratic equations) is essential for mastery of this course. The laboratory work includes qualitative and quantitative experiments intended to illustrate lecture presentations. Recommended for students who plan further study

Mr. Sottery or Mr. Smith

in physical sciences or engineering. Prerequisite: at least three years of high school mathematics, and high school chemistry or equivalent. Four credit hours

CHEM 114 Chemical Principles II

Mr. Sottery or Mr. Smith

A continuation of the topics presented in CHEM 113. Prerequisite: CHEM 113.

Four credit hours

CHEM 201 Brief Organic Chemistry

Mr. Sottery or Mr. Whitten

A brief introduction to nomenclature and reactions of those functional groups of organic compounds which are important to life systems. Models are employed to enhance the student's comprehension of molecular shapes and conformations and the laboratory work includes training in some of the basic techniques of chromatography and spectroscopic methods. Recommended as a prerequisite for CHEM 202. Prerequisite: a C grade or better in CHEM 102 or 112 or 114.

Four credit hours

CHEM 202 Biochemistry

Miss Schwinck

Chemistry of biologically important molecules, including carbohydrates, proteins, lipids, and nucleic acids, and the principles of the main metabolic pathways in living systems. Prerequisites: A grade of C or better in CHEM 201 or CHEM 252, and BIO 101 and 103 or with instructor's permission.

Four credit hours

CHEM 251 Organic Chemistry I

Mr. Smith

A survey of the chemistry of carbon compounds, with extensive use of modern theories of structure and reaction mechanisms. Considerable emphasis will be placed on nomenclature; on the use of spectroscopic methods for structure determination, and on molecular geometry. Required for chemistry majors; recommended for premedical and pre dental students, and for majors in the biological sciences who will require subsequent course work in biochemistry. Prerequisites: a grade of C or better in CHEM 114 or 112 or 102.

Three credit hours

CHEM 252 Organic Chemistry II

Mr. Smith

A continuation of the topics considered in CHEM 251. Prerequisite: CHEM 251.

Three credit hours

CHEM 261 Organic Chemistry Laboratory I

Mr. Sottery or Mr. Smith

An initiation to modern laboratory techniques used for the synthesis and study of organic compounds. The laboratory exercises introduce common syntheses, chemical spectroscopy, chromatographic methods, simple reaction kinetics, and organic qualitative analysis. Prerequisite: credit or concurrent registration in CHEM 251.

Two credit hours

CHEM 262 Organic Chemistry Laboratory II

Mr. Sottery or Mr. Smith

A continuation of the studies initiated in CHEM 261. Prerequisites: credit or concurrent registration in CHEM 252 and a grade of C or better in CHEM 261.

Two credit hours

EARTH SCIENCE

COURSES IN EARTH SCIENCE

ESCI 101 Earth Science I

Mr. Hare

A survey course which includes topics selected from the areas of astronomy, geology, meteorology, and oceanography. The laboratory sessions involve a study of the solar system, latitude and longitude, minerals, rocks, soils, air and water pollution, topographic maps, and weather maps. (Not offered in 1972-73)

Three credit hours

ESCI 102 Earth Science II

Mr. Hare

A continuation of ESCI 101. Prerequisite: ESCI 101. (Not offered in 1972-73)

Three credit hours

ESCI 200 Environmental Science

Mr. Miller

A study of basic relationships of plants, animals, and men to their physical and biotic environment. This includes a study of biomes, habitats, and communities interpreted in varying stages of succession or stratification as influenced by the limiting factors of their environment. Some emphasis is placed on species dynamics and population changes. Weekly field trips when weather permits.

Three credit hours

ESCI 202 Conservation

Mr. Miller

A study of man's use of his environment. Topics include the resources of mineral, soil, forests, water, air, wildlife, and man himself. Consideration is given to the issues and problems developing from the interaction of management of these resources. Weekly field trips when weather permits.

Three credit hours

ENGINEERING

The University of Maine at Portland-Gorham offers the first year of the program common to all Engineering majors, and the first and second years in Electrical Engineering. These offerings are identical in all respects to corresponding programs at the University of Maine at Orono. Students who complete either one or two years at UMPG continue their studies at UMO.

The Master of Engineering Degree is available at UMPG. This program is intended for employed engineers and scientists desiring to maintain and improve their professional competence. Students may complete all degree requirements at UMPG, as the program is fully administered here.

ENGINEERING FRESHMAN YEAR

| Fall Semester | | | Spring Semester | | |
|---------------|--------------------|--------------|-----------------|----------------------|--------------|
| Subject | | Credit hours | Subject | | Credit hours |
| CHEM 113 | Chemical Princ. | 4 | CHEM 114 | Chemical Princ. | 4 |
| GEE 101 | Intro. to Design | 2 | ENG 120 | Intro. to Literature | 3 |
| MS 152 | Calculus A | 4 | GEE 102 | Intro. to Design | 2 |
| PE 100 | Physical Education | 1 | MS 153 | Calculus B | 4 |
| PHYS 121 | General Physics | 4 | PE 100 | Physical Education | 1 |
| GEE 005 | Orientation | 0 | PHYS 122 | General Physics | 4 |
| | | — | GEE 006 | Orientation | 0 |
| | | 15 | | | — |
| | | | | | 18 |

ELECTRICAL ENGINEERING SOPHOMORE YEAR

| Fall Semester | | | Spring Semester | | |
|---------------|----------------------|--------------|-----------------|-----------------------|--------------|
| Subject | | Credit hours | Subject | | Credit hours |
| ELE 201 | Circuit Analysis I | 5 | ELE 202 | Circuit Analysis II | 3 |
| ENG | Literature Elective | 3 | ELE 212 | Basic Elect. Lab | 2 |
| GEE 207 | Computer Programming | 3 | MS 350 | Diff. Equations | 3 |
| MS 252 | Calculus C | 4 | MEE 252 | Applied Mechanics | 3 |
| MEE 255 | Statics & Strength | 3 | ELE 209 | Ele. Engrg. Materials | 3 |
| | | — | | Humanities Elective | 3 |
| | | 18 | | | — |
| | | | | | 17 |

COURSES IN ENGINEERING

- GEE 005 Technology Orientation I** Staff
A series of meetings involving lectures and discussions, with frequent use of audiovisual material to acquaint engineering freshmen with the nature of engineering and science. No credit
- GEE 006 Technology Orientation II** Staff
A continuation of GEE 005. No credit
- GEE 101 Introduction to Engineering Design I** Staff
Creative exercises in multiview drawing using freehand and instrumental techniques. Two credit hours
- GEE 102 Introduction to Engineering Design II** Staff
A continuation of GEE 101. Two credit hours
- GEE 207 Computer Programming** Staff
Numerical analysis and digital computer programming using FORTRAN. Theory and implementation of algorithms for zero-searching, solution of linear systems, interpolation, integration, differentiation and the solution of differential equations. Prerequisite: MS 252 (may be taken concurrently). Three credit hours
- MEE 211 Introductory Engineering Metallurgy** Staff
Methods of defining the microstructure of metals, phase diagrams, and mechanical properties. Thermal, mechanical, and chemical manipulation of microstructure. Not for mechanical engineering degree credit. Three credit hours
- MEE 212 Elementary Heat Power** Staff
Elementary thermodynamics, mechanical apparatus, power plant equipment; engineering calculations relative to heat, power, work, and mechanical and electrical energy. Not for mechanical engineering degree credit. Three credit hours

- MEE 252 Applied Mechanics, Dynamics** Staff
A study of motion of particles and rigid bodies; force, mass and acceleration; work and energy and simple harmonic motion. Prerequisite: MS 252. Three credit hours
- MEE 255 Statics and Strength of Materials** Staff
The basic principles of statics and their applications in strength of materials. Equilibrium of various systems. Stresses and deformations of axially loaded members, connections, circular shafts, beams, and columns. Three credit hours
- ELE 201 Circuit Analysis I** Staff
Basic laws and theorems of electric circuits; solution of circuits represented by first and second order differential equations. Prerequisite: PHYS 122. Five credit hours
- ELE 202 Circuit Analysis II** Staff
Phasor solution of a-c circuits and coupled circuits; balanced three-phase systems; introduction to complex frequency. Prerequisite: ELE 201. Three credit hours
- ELE 209 Electrical Engineering Materials** Staff
A study of the principles of materials science with emphasis on electrical properties. Diffusion, oxidation, electrochemistry, energy bands, emission, thermal properties, conduction theory, semiconductor junctions, thermoelectricity, magnetic properties, dielectric properties, optical properties. Three credit hours
- ELE 212 Basic Electrical Laboratory** Staff
Use of techniques developed in ELE 201 and 202 for the analysis of circuits containing linear, non-linear, passive and active elements; includes analysis of simple electronic circuits and the use of the oscilloscope. Prerequisite: ELE 202 required concurrently. Two credit hours

MASTER OF ENGINEERING PROGRAM

The program of studies leading to the degree of Master of Engineering is based upon a required core sequence of courses in engineering techniques and principles of business management. The technical courses in the core of the program develop analytical and numerical techniques for the solution of problems in all branches of engineering. The management courses are especially designed to acquaint engineers with the major considerations that influence the decision-making process in the conduct of business.

In addition to the 18 credits of core courses, each student selects 12 credits of advanced work in a carefully planned and approved program. Of these 12 credits, at least 9 must be in engineering courses. In appropriate circumstances, a thesis may be submitted in fulfillment of up to 6 credits of the required total of 30 credits. Conferral of the degree is contingent upon passing a comprehensive examination at the conclusion of all course work.

Candidates for admission to the program must hold a baccalaureate degree in a branch of engineering, physics, mathematics, or chemistry. When there is a substantial doubt concerning the qualification of an applicant, a diagnostic entrance examination will be administered. No more than 12 credits, earned before admission as a matriculated student, may be applied toward the 30-credit degree requirement.

Master of Engineering Core Courses

| Subject | Credit hours |
|---|--------------|
| GEE 501 and 502 Applied Mathematics I and II (3 credits each) | 6 |
| GEE 521 Optimal Design | 3 |
| GEE 522 Linear Systems | 3 |
| GEE 531 and 532 Management and Policy I and II (3 credits each) | 6 |

COURSES IN MASTER OF ENGINEERING

- GEE 501 Applied Mathematics I** Staff
Topics in applied mathematics. Special functions of Bessel, Legendre, Languerre, Hermite, Gamma, and Beta functions. Analytic functions of complex variables. Calculus of variations. Partial differential equations, the Eigenvalue problem. Three credit hours

- GEE 502 Applied Mathematics II** Staff
A continuation of GEE 501. Three credit hours
- GEE 521 Optimal Design** Staff
Analytical and numerical procedures for the optimization of engineering design. Applications of digital and analogue computers in design. Design Project. Three credit hours
- GEE 522 Linear Systems** Staff
Linear lumped and distributed systems analysis. State variable and transform techniques. Study of discrete and continuous systems including impulse response, controllability, observability, fundamental matrix, and stability. Three credit hours
- GEE 531 Management and Policy I** Staff
A study of policy formulation and business practices as viewed by the senior executive. This course will include case discussions and critical review of the current literature. Three credit hours
- GEE 532 Management and Policy II** Staff
A continuation of GEE 531. Three credit hours
- GEE 541 Engineering Statistics** Staff
Applications of probability and statistics to engineering and scientific problems. Probability, distribution, estimation, hypothesis testing, regression, analysis of variance, applications to decision theory and reliability theory. Three credit hours
- ELE 542 Statistical Communication Theory I** Staff
Analysis and synthesis of communication systems using statistical techniques. Statistical and spectral representations of random signals and noise, linear optimum systems, modulation theory, detection of signals in noise. Three credit hours
- ELE 543 Statistical Communication Theory II** Staff
A continuation of ELE 542. Three credit hours
- ELE 561 Electronic Devices and Circuits I** Staff
Theory of semiconductor devices including diodes, BJTs, MOSFETs, and integrated circuits. Applications in wideband amplifiers, logic circuits, multivibrators, switching circuits, etc. Three credit hours
- ELE 562 Electronic Devices and Circuits II** Staff
A continuation of ELE 561. Three credit hours
- ELE 565 Electromagnetic Theory I** Staff
Maxwell's equations, static and dynamic fields, wave propagation, transmission lines and microwave systems, electromagnetic properties of materials and plasmas. Three credit hours
- ELE 566 Electromagnetic Theory II** Staff
A continuation of ELE 565. Three credit hours
- ELE 571 Control Systems I** Staff
Topics in classical control system analysis and design, including stability and comprehension. Modern control theory including the state variable formulation and optimization. Computer simulation of systems. Three credit hours
- ELE 572 Control Systems II** Staff
A continuation of ELE 571. Three credit hours
- ELE 599 Special Topics in Electrical Engineering** Staff
Study of selected topics of mutual interest to students and instructor. Three credit hours

GENERAL SCIENCE

COURSES IN GENERAL SCIENCE

- PSCI 310 History of Science** Mr. Whitten
A comprehensive survey of the historical development of science from earliest records to the present. Attention is given to the nature of science, methods of scientific discovery, the relation of science to technology, and the implications of both for society. Prerequisite: two years of science. Three credit hours
- GEOL 111 Physical Geology** Mr. Miller, Mr. Novak
A study of the ever-changing earth by wind, water, volcanism, crustal movement, and glaciation. The identification of common rocks and minerals is included. Weekly field trips when weather permits. Three credit hours
- GEOL 112 Historical Geology** Mr. Miller, Mr. Novak
Study of the earth's history in terms of physical, chemical, and biological change, from its origin to the present time. Focus upon the methods of determining chronology and conditions through fossils and structural characteristics. Three credit hours

GEOL 201 Structural Geology

This course is a study and interpretation of rock structure, intrusions, and deformation. Considerable time is spent in field study, geologic mapping, and bed rock interpretation. Some time is devoted to mineral and ore formations. Prerequisite: any one of the following: GEOL 101, GEOL 102, GEOL 111, GEOL 112.

Mr. Miller

Three credit hours

GEOL 203 Mineralogy

An introduction to descriptive crystallography, and a study of the physical properties and chemical structures of common rock-forming minerals. Field trips and laboratory analysis are an important part of the course. A basic course in chemistry is desirable. Prerequisite: GEOL 101, 102, 111, or 112.

Mr. Miller

Three credit hours

MET 100 Meteorology

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

Mr. Hare

Three credit hours

OCN 100 Introduction to Oceanography

Origin and extent of the oceans; nature of the sea bottom; causes and effects of currents and tides; chemical and physical properties of sea water; animal and plant life in the sea.

Mr. Hare

Three credit hours

PHYSICAL SCIENCE

COURSES IN PHYSICAL SCIENCE

PSCI 100 Concepts of Physical Science

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

Mr. Ayers

Three credit hours

PSCI 103 Science for Technology I

A practical approach to chemical and physical principles and concepts as they apply to industrial arts.

Mr. Pendleton

Three credit hours

PSCI 104 Science for Technology II

A continuation of topics covered in PSCI 103. Prerequisite: PSCI 103.

Mr. Grass

Three credit hours

PSCI 110 Elements of Physical Science

A non-mathematical approach to the explanation of scientific principles designed to develop a verbal and intuitive understanding of the world we live in and the natural laws that have been discovered.

Mr. Hare, Mr. Pendleton

Three credit hours

PSCI 111 Physical Science I

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

Mr. Hare, Mr. Pendleton

Three credit hours

PSCI 112 Physical Science II

A continuation of PSCI 111. Prerequisite: PSCI 111.

Mr. Hare, Mr. Pendleton

Three credit hours

PSCI 400 Science and Society

Readings and discussion concerning the relationships between science and society. The "Tactics and Strategy of Science" and the philosophical and social implications of present scientific theories are considered with the aim of promoting understanding of the role of science in modern life. The interaction between scientists and society, and the relationship between research and technology are also examined. Prerequisite: senior students, others by permission.

Mr. Sottery

Three credit hours

PSCI 498 Independent Study in the Physical Sciences

To provide juniors and seniors who have demonstrated critical and analytical capability an opportunity to pursue a project independently, selecting a problem and exploring an area of interest in the physical sciences, bringing to it previous experiences and emerging with an intellectually sound, coherent synthesis, or technical creation reflecting a high caliber of performance.

Staff

One to three credit hours

PHYSICS

A physics major is not offered at UMPG. A student beginning in PHYS 121 and 122 in the fall semester of 1972 may expect to complete the first two years of a physics major, after which the student must transfer to the Orono campus to complete the program.

Students intending to major in physics should normally register to take PHYS 121 and 122, and MS 152 and MS 153 as freshmen. Since the degree program is currently completed at UMO, the degree requirements outlined in the UMO catalog will apply to all physics majors.

Students expecting to major in Physics are advised to begin taking chemistry, mathematics, and physics, as required, in the freshman year to avoid course conflicts in the following three years.

Physics Minor

Credit hours

Group A — 8 credit hours required

| | | |
|------------------|---|---|
| PHYS 111 and 112 | Elements of Physics (4 credits each semester) | |
| or | to be taken as a two-semester sequence | 8 |
| PHYS 121 and 122 | General Physics (4 credits each semester) | |
| | to be taken as a two-semester sequence | 8 |

Group B — 3 or 4 credit hours required

| | | |
|----------|--------------------------------|---|
| PHYS 210 | Introductory Modern Physics | 4 |
| PHYS 221 | Intermediate Physics | 4 |
| PHYS 390 | Independent Physics Laboratory | 3 |

Group C — Elect sufficient courses so total credit hours of Groups A, B, and C is at least 18 hours.

| | | |
|----------|--------------|---|
| ASTR 100 | Astronomy | 3 |
| MET 100 | Meteorology | 3 |
| OCN 100 | Oceanography | 3 |

In Group C, substitutions can be made which are acceptable to the departmental advisor.

COURSES IN PHYSICS

PHYS 100 Descriptive Physics

Mr. Armentrout

For the non-science student. A treatment in non-mathematical language of the more important topics in physics. Designed to develop an appreciation for the concepts, vocabulary, and methods of the science rather than a false sense of mastery. Three credit hours

PHYS 111 Elements of Physics I

Mr. Grass

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

PHYS 112 Elements of Physics II

Mr. Grass

A continuation of topics covered in PHYS 111. Four credit hours

PHYS 121 General Physics I

Mr. Walking

An introduction to the fundamental concepts of mechanics, sound and heat, using calculus where necessary. Recommended for students who plan further study in science, mathematics, or engineering. Prerequisite: prior or concurrent registration in MS 150, or equivalent experience. Four credit hours

PHYS 122 General Physics II

Mr. Walking

An introduction to the fundamental concepts of electricity, magnetism, light and atomic physics, using calculus where necessary. Recommended for students who plan further study in science, mathematics, or engineering. Prerequisite: PHYS 121 or equivalent. Four credit hours

PHYS 210 Introductory Modern Physics

Mr. Armentrout

A development of some of the more important concepts of physics required for understanding the properties of the electron and atomic nucleus. Prerequisites: PHYS 112 or PHYS 122, CHEM 112 or CHEM 114, and one year of calculus.

Four credit hours

PHYS 221 Intermediate Physics I

Mr. Armentrout

A more mathematical treatment of mechanics, heat, sound, electricity and light than provided in PHYS 121, PHYS 122. May be taken without laboratory for 3 credits with special permission of the instructor. Prerequisites: PHYS 122 and CHEM 114 or equivalent and one year of calculus.

Four credit hours

PHYS 222 Intermediate Physics II

Mr. Armentrout

A continuation of topics covered in PHYS 221. Prerequisite: PHYS 221.

Four credit hours

PHYS 390 Independent Physics Laboratory

Staff

A laboratory research investigation of an approved topic in physics, using the facilities of the University laboratories and/or those of industrial and professional laboratories. Prerequisite: consent of the instructor.

Three credit hours

Political Science

Associate Professors Peirce (Chairman), Pease (on leave); Assistant Professors Coogan, Fisher, Maiman, Roberts, Woshinsky.

Students majoring in Political Science must complete a minimum of 36 hours in the Department.

Requirements for the Major in Political Science: Majors must complete POL 101 and 102. Many upper level courses require POL 101 or 102 as prerequisites. All major students must take at least one course from four of the following offerings of the Department: The American Political System (POL 210, 213, 233, 234, 251, 257, 258, 357, 358, 359, 360); Comparative Political Systems (POL 235, 236, 237, 238, 240, 332); International Politics (POL 239, 273, 274, 275, 387, 388) Constitutional Law (POL 252, 283, 284, 305); and Political Theory (POL 289, 290, 291). In addition each major student is required to participate in at least one Seminar (POL 400, 401, 402, 403). In unusual cases students may, with departmental permission, substitute independent study for a Seminar.

Note: POL 121 and 122, Current World Problems, may not be counted towards any major requirements.

All students are reminded that, in addition to their meeting departmental requirements for a major leading to a baccalaureate degree, they must also meet the requirements of the school or college involved, as well as the University's General Education Requirements and the Physical Education Requirements. These general requirements are printed inside the front cover of this catalog.

Upper level political science courses all require either POL 101 and 102 or the permission of the instructor unless otherwise noted.

COURSE DESCRIPTIONS

POL 101 Introduction to American Government

Staff

The political institutions, processes, behavior, and problems of government in the United States are considered. The national government is emphasized. The constitution, Supreme Court, Congress, Presidency, political parties, and interest groups are studied.

Three credit hours

POL 102 Man and Politics

Staff

This course introduces the student to modern political analysis. It centers on basic questions in the study of political behavior: how people learn about politics, what kind of political system they adopt and support, who does not participate in politics, how political conflict is expressed and resolved in various societies. The course aims at familiarizing the student with major approaches or methods which political scientists have found helpful for understanding real political behavior.

Three credit hours

- POL 121 Current World Problems I** Mr. Roberts
Contemporary domestic and international affairs with emphasis on events in the Communist world and the underdeveloped areas. Two credit hours
- POL 122 Current World Problems II** Mr. Roberts
A continuation of POL 121. Prerequisite: POL 121. Two credit hours
- POL 210 Power and Change in American Society** Mr. Fisher
This is an interdisciplinary course which examines groups in the United States who hold and wield power and groups who are powerless. Functional and dysfunctional aspects of the political, economic, and social systems are considered. Attempts at intervention to change the systems are examined through selected case studies. This course is not open to students who have already taken POL 102. Three credit hours
- POL 213 State Government** Mr. Coogan
State constitutions, structure and functions of state government. Relations with federal, state, and local governments. Prerequisite: POL 101 or 102. Three credit hours
- POL 233 The American City** Mr. Fisher
The process of government in urban America including concepts of local self-government, forms and procedures in urban governing, and developments in intergovernmental relations and metropolitan areas. Prerequisite: POL 101. Three credit hours
- POL 234 Municipal Administration** Mr. Fisher
The management, financial control, and administration of modern American cities, with emphasis on administration of personnel and finance, the city plan, and line functions: public safety, transportation, health, welfare, and housing. Prerequisite: POL 233 and consent of the instructor. Three credit hours
- POL 235 Democratic Governments of Europe** Mr. Roberts, Mr. Woshinsky
An introduction to the parliamentary system, through a study of the governmental operations and politics of Britain, France, and the Federal Republic of Germany. Other topics covered: the Common Market and prospects for European integration; relationship of democratic Europe with Communist Europe. Prerequisite: POL 101 or 102. Three credit hours
- POL 236 Communist Governments** Mr. Roberts
A survey of existing communist social systems is offered. The following topics will be considered: variation in political parties and state systems, the problem of nationalism, economic management, and cultural policy. Special attention will be given to a comparative survey of current communist ideology and the question of the "socialist commonwealth." Prerequisite: POL 101 or 102. Three credit hours
- POL 237 The Politics of the Soviet Union** Mr. Roberts
An introduction to the USSR Russian and Soviet political history; Marxism-Leninism; the party and state structures; the socialist economy; the impact of the regime on the individual Soviet citizen; cultural life. Three credit hours
- POL 238 Canadian Government and Politics** Mr. Woshinsky
An introduction to political life in Canada. Primary topics to be covered in the course: Canadian political culture, voting behavior, the parliamentary system, federalism, political parties, and interest groups. The place of Quebec and French-speaking Canadians within the Canadian political system will be given special emphasis. Prerequisite: POL 101 or 102. Three credit hours
- POL 239 Soviet Foreign Policy** Mr. Roberts
A survey of Soviet Foreign policy as a continuation of Tsarist policies; as a world movement; the Comintern and the popular Front. Impact of World War II: the emergence of the USSR as a superpower. Post-Stalin modifications. Case studies in contemporary foreign problems, including relations within the Communist world. Three credit hours
- POL 240 The Politics of Developing Nations** Mr. Roberts
An examination of the thrust towards modernization in the "third world." Economic development, relationships with the world community, the role of the military, and various theories about the nature of the relationship between the "third world" and the communist and non-communist industrial worlds are considered. POL 101 or 102 are recommended. Three credit hours
- POL 251 Public Administration** Mr. Coogan
The dynamics of government administration including administrative principles. Decision-making; communications; leadership; organizational models; and technical, political, and personnel factors of administration. Three credit hours
- POL 252 Administrative Law** Mr. Maiman
Primarily case studies of the legal adjustment of administrative authority and individual liberty, including judicial control over administration, personal liability of officers, scope

- and limits of administrative powers, and the due process measurement of administrative procedure. Prerequisite: POL 251. (Not offered in 1972-73) Three credit hours
- POL 257 Political Parties** Mr. Coogan
Development and present organization and operation of the American party system. Nature and function of major and minor parties, sectionalism, nominating system, presidential and congressional elections, the electorate, finance, interest groups. Prerequisites: POL 101 and 102. Three credit hours
- POL 258 Public Opinion** Mr. Coogan
The role of public opinion in American democracy; definition and measurement; sociological and psychological influences; mass media; linkage to government. Prerequisites: POL 101 and 102. (Not offered in 1972-73) Three credit hours
- POL 273 International Relations I** Mr. Peirce
First semester: the nation-state system, techniques of states in expanding their influence, and restraints imposed on their freedom of action. Three credit hours
- POL 274 International Relations II** Mr. Peirce
Second semester: Continuation of POL 273. (Not offered in 1972-73) Three credit hours
- POL 275 United States Foreign Policy** Mr. Peirce
A detailed evaluation of U.S. foreign policy focusing on such topics as: identification of U.S. policy; governmental agencies and personalities in the formulation and implementation of policy; the role of non-governmental influences. The course is designed to evaluate current policy goals and practices within the context of long-range goals. (Not offered in 1972-73) Three credit hours
- POL 283 The American Judicial System** Mr. Maiman
The development and interpretation of the American constitution through Supreme Court decisions. The nature of the federal judicial process, interstate commerce, taxation, war powers, federal-state relations. Prerequisite: POL 101. Three credit hours
- POL 284 American Civil Liberties** Mr. Maiman
An analysis of judicial interpretations of Bill of Rights guarantees and their effects on political processes in the United States. Topics include church and state, freedom of speech and press, the rights of the accused and the convicted. Prerequisite: POL 283. Three credit hours
- POL 289 Political and Social Thought I** Mr. Fisher
A survey of political theories from ancient Greece to recent times. The basic approach is historical, and seeks to relate theories of politics to the environments in which they developed. Prerequisite: junior or senior standing. Three credit hours
- POL 290 Political and Social Thought II** Mr. Fisher
A continuation of POL 289. Prerequisite: junior or senior standing. Three credit hours
- POL 291 American Political Thought** Mr. Maiman
An examination of American historical and contemporary thinking on a variety of political topics including equality, revolution, liberty, property, war, and individualism. (Not offered in 1972-73) Three credit hours
- POL 305 Judicial Decision-Making** Mr. Maiman
A cross-national study of the social and psychological determinants of judicial decision-making. The course will also focus on the social effects of judicial decisions. Prerequisite: Consent of the instructor. (Not offered in 1972-73) Three credit hours
- POL 332 Comparative Political Behavior** Mr. Woshinsky
This course will introduce students to major approaches and concepts in comparative politics. Emphasis will be placed on using theoretical concepts to understand practical politics in a variety of nations (primarily those modern industrial states of Western Europe and North America). Major topics for study: public opinion, political parties, legislative behavior, bureaucracy. Prerequisite: POL 235 or 236. (Not offered in 1972-73) Three credit hours
- POL 353 Municipal Internship** Mr. Fisher
Provision may be made to gain professional experience in a local government. The course is open only to selected students. Readings and research reports are required. Three to six credit hours
- POL 354 State Internship** Staff
Provision may be made to gain professional experience in a department or agency of state government. The course is open to selected students. Readings and research reports are required. The state government internship is available under the Maine State Government Internship Program. Three to six credit hours

POL 355 Congressional Internship

Staff

A first-hand study of the national legislative process and the function of the legislator. The student will be assigned to the staff of a Congressman or Senator in Washington, D.C., from about February 1 until the end of June. Readings and reports are required in addition to the staff work. Open to juniors on a competitive basis. Rules announced publicly each fall semester.

Six credit hours

POL 357 The American Presidency

Mr. Maiman

This course examines the development of the modern presidency; the scope and exercise of presidential decision-making in domestic and foreign policy; and standards for assessing presidential "performance." Prerequisite: POL 101.

Three credit hours

POL 358 The American Congress

Mr. Woshinsky

The role of the national legislature in American politics is considered. The course undertakes a study of the men who reach Congress, the internal norms and procedures within Congress, and the effects of these procedures on national decision-making. Among topics covered are the committee system, leadership patterns in the Senate and the House, the public's influence on Congress, Congress and the Presidency, and Congressional policy-making in selected areas. Prerequisite: POL 101 or 102.

Three credit hours

POL 359 Problems of American Government

Staff

Analysis of basic problems of United States national government. Case studies in such areas as federalism, civil rights, congressional and presidential relations, judicial functions, taxation, and foreign affairs. Prerequisite: POL 101.

Three credit hours

POL 360 Problems of State Government

Staff

A consideration of the theory, organization, and functions of the American states and their present-day problems. Prerequisite: POL 213.

Three credit hours

POL 387 International Law

Mr. Peirce

An analysis from the political perspective of the sources, limitations, and institutions of international law in the search for effective legal standards to achieve world order. Offered in alternate years beginning in 1971-1972.

Three credit hours

POL 388 International Organization

Mr. Peirce

An analysis of the approaches to the problems of peace, economic and social justice at the international level. Emphasis on the United Nations system and its specialized agencies. Offered in alternate years beginning in the spring semester of 1971-1972.

Three credit hours

POL 395 Independent Study I

Staff

A concentrated program of research or study on a particular subject of the student's selection. The topic will be chosen with the advice and under the direction of a faculty member. Admission by permission of the political science faculty.

Three to six credit hours

POL 396 Independent Study II

Staff

A concentrated program of research or study on a particular subject of the student's selection. The topic will be chosen with the advice and under the direction of a faculty member. Admission by permission of the political science faculty.

Three to six credit hours

POL 397 Independent Study III

Staff

A concentrated program of research or study on a particular subject of the student's selection. The topic will be chosen with the advice and under the direction of a faculty member. Admission by permission of the political science faculty.

Three to six credit hours

POL 400 Seminar in American Politics

Staff

A study of some aspect of American political institutions and behavior. Prerequisite: Consent of the Instructor. (Not offered in 1972-73)

Three credit hours

POL 401 Seminar in International Politics

Mr. Peirce

A study of some aspect of international politics. Prerequisite: Consent of the instructor.

Three credit hours

POL 402 Seminar in Comparative Politics

Staff

Aspects of comparative politics will be studied and analyzed. Prerequisite: Consent of the instructor. (Not offered in 1972-73)

Three credit hours

POL 403 Seminar in Constitutional Law

Mr. Maiman

A detailed study of the United States Supreme Court between 1953 and 1969, perhaps the most contentious period in the Court's history. Subject matter includes major Warren Court decisions; the personalities and events which helped shape the Court's policies; the social and political impact of the Warren Court's policy-making; and criticisms (both scholarly and otherwise) of the Court's "activist" stance. Prerequisite: Consent of the instructor.

Three credit hours

Psychology

Professors Paradise, Saldanha (Chairman); Associate Professors Bishop, Sanborn; Assistant Professors Hearn, Van Hemel.

The Department of Psychology offers a four-year program for students majoring in psychology. It also includes courses for students majoring in allied fields as well as for students wishing an orientation to the field of psychology as part of their general education. Courses are designed to create an awareness of the fundamental principles of psychology, psychological research, and the means by which psychological knowledge is acquired. The emphasis is upon the scientific inquiry into basic phenomena and principles of behavior, not upon the development of professional skills.

All students are reminded that, in addition to their meeting departmental requirements for a major leading to a baccalaureate degree, they must also meet the requirements of the school or college involved, as well as the University's General Education Requirements and the Physical Education Requirements. These general requirements are printed inside the front cover of this catalog.

The minimum requirement for a major in psychology is 30 hours (and not to exceed 45 hours), which must include the following:

| | <i>Credit hours</i> |
|--|---------------------|
| PSY 101 and 102 General Psychology (3 credits each semester) to be taken as a two-semester sequence | 6 |
| PSY 201 Statistics in Psychology | 3 |
| PSY 205 Experimental Methodology | 4 |
| and at least two courses from each of the following groups: | |
| Group I: PSY 350 Psychology of Learning | 4 |
| PSY 351 Psychology of Motivation | 3 |
| PSY 361 Sensation and Perception | 4 |
| PSY 365 Physiological Psychology | 3 |
| Group II: PSY 330 Social Psychology | 3 |
| PSY 333 Psychopathology | 3 |
| PSY 338 Theories of Personality | 3 |
| PSY 343 Psychological Test Theory | 3 |

Psychology 101 and 102 should be elected no later than the sophomore year by students who plan to major in psychology. All majors are required to elect PSY 201 and PSY 205 no later than their junior year.

In addition, the department recommends that the students who wish to take a more extensive program or who plan to enter graduate school elect, in consultation with their major advisor, further courses in psychology and also include in their programs study in related fields, such as mathematics, biology, philosophy, sociology, and anthropology.

COURSE DESCRIPTIONS

PSY 101 General Psychology I

Mr. Saldanha, Mr. Paradise

An introduction to the study of behavior as a natural science. Among the topics covered are: methods of inquiry, physiological foundations of behavior, sensation and perception, motivation and emotion, learning and thinking. This course is a prerequisite for all courses in the department.

Three credit hours

PSY 102 General Psychology II

Mr. Saldanha and Mr. Paradise

A continuation of Psychology 101. It deals with complex psychological processes such as ability testing, personality, conflict, behavior disorders and therapy, and social and industrial behavior. Prerequisite: PSY 101.

Three credit hours

PSY 201 Statistics in Psychology

Mr. Hearns

A general introduction to the techniques of descriptive, predictive, and inferential statistics. Emphasis is placed on measures of central tendency and variability, correlation, hypothesis testing, and simple analysis of variance. Prerequisite: PSY 101.

Three credit hours

PSY 205 Experimental Methodology

Mr. Hearns

Emphasis on the principles, methods, and techniques of experimental psychology. Applications of general methodology and specific techniques to the design of experiments in behavioral research. Laboratory exercises provide experience in collecting and reporting data. Prerequisite: PSY 201.

Four credit hours

PSY 220 Developmental Psychology

Mr. Bishop

An overview of psychological concepts of significance during the life span of the individual. Selected areas of child, adolescent, adult, and geriatric psychology are included. This course is not open to students who have completed, or who are currently enrolled in, either PSY 223 or PSY 224. Prerequisites: PSY 101 and 102. (Not offered in 1972-73)

Three credit hours

PSY 223 Psychology of Childhood

Mrs. Sanborn

A systematic study of the child's behavior and psychological development. Emphasis upon principles underlying development, methods of child study, and practical implication. Prerequisites: PSY 101 and 102.

Three credit hours

PSY 224 Psychology of Adolescence

Mrs. Sanborn

A systematic study of the behavioral and psychological development of the adolescent. The adolescent personality and problems of adjustment in relation to the family, the school and the community. Prerequisites: PSY 101 and 102.

Three credit hours

Psy 232 Mental Hygiene

Mrs. Sanborn

A consideration of the fundamental factors in human adjustment with emphasis upon the prevention of inadequate adjustments and upon the processes by which maladjusted individuals may be restored to normal living. Family and educational situations will be emphasized. Prerequisites: PSY 101 and 102.

Three credit hours

PSY 311 Industrial Psychology

Mr. Hearns

Critical treatment of research methods in personnel selection and evaluation and current theories of individual behavior in complex organizations such as government and business. Prerequisites: PSY 101 and 102.

Three credit hours

PSY 320 Psychology of Personality

Mr. Paradise

Consideration of current issues and findings in personality. Personality development. Current research in such areas as socialization, aggression, identification, values, morality, anxiety. Relates basic principles of perception, motivation, and learning to personality theory. Prerequisites: PSY 101 and 102.

Three credit hours

PSY 326 Mental Deficiency

Mr. Bishop

The identification and description of various types and levels of mental retardation. Problems in assessment, treatment, and education of the retarded are also stressed. Prerequisite: PSY 220 or PSY 223.

Three credit hours

PSY 330 Social Psychology

Mr. Bishop

The psychological principles which enter into the social behavior of the individual. Areas of consideration include perception, communication, attitude formation, interpersonal attraction, and group behavior. Prerequisites: PSY 101 and 102.

Three credit hours

PSY 333 Psychopathology

Mr. Bishop

The etiology, development, and manifestation of the major forms of mental illness with particular emphasis upon the neuroses and psychoses. Psychological, social, and biological factors which contribute to maladjustment are examined. Prerequisites: PSY 101 and 102 with a grade of C or better.

Three credit hours

PSY 335 Deviations of Childhood

Mr. Bishop

Intensive readings and discussion of the etiology and manifestation of deviant patterns of behavior and functioning in children. Problems relating to the identification and management of such deviations are considered. Prerequisites: PSY 223 or 220 and permission of the instructor.

Three credit hours

PSY 338 Theories of Personality

Mr. Bishop

A survey of the major contemporary approaches to the study of personality. Different theories are compared, their impact upon current thinking evaluated, and their research contributions assessed. Prerequisites: PSY 101 and 102 with a grade of C or better.

Three credit hours

PSY 343 Psychological Test Theory

The theoretical and statistical concepts underlying the development of various psychological tests. Individual and group tests of intelligence, personality, aptitude, and interest are examined and evaluated in terms of these concepts. Uses and abuses of psychological tests are considered. Prerequisite: PSY 201. Three credit hours

PSY 350 Psychology of Learning

Experimental findings on the fundamental principles that underlie the acquisition and retention of new behavior. Laboratory experience with techniques in the study of learning in animals and humans. Prerequisite: PSY 205. Four credit hours

PSY 351 Psychology of Motivation

A survey of theory, research methods, and experimental findings related to the search for the determinants of human and animal behavior. The course requires a research paper on a topic of interest to the student, and the planning of an experiment growing out of that interest. Laboratory. Prerequisite: PSY 205. Four credit hours

PSY 360 Human Learning

Basic principles of learning as they relate to human behavior. Consideration of such areas as acquisition of knowledge, retention, forgetting, problem solving, concept formation, thinking, transfer of training. Interrelates learning with perception and motivation. Some consideration of learning theories. Prerequisites: PSY 101 and 102. Three credit hours

PSY 361 Sensation and Perception

An examination of perceptual processes in selected sensory systems. Emphasis on experimental methodology, research findings, and theoretical interpretations. Prerequisite: PSY 201. Four credit hours

PSY 365 Physiological Psychology

Basic neuroanatomy, neurophysiology, and endocrinology, and the relationships between nervous system functioning and behavior. Physiological analysis of sensory function, motivation, and learning. Prerequisite: BIO 101 or BIO 111. Three credit hours

PSY 366 Psychobiology

A survey of the principles and concepts of biological psychology. Understanding the physiological basis and species-typical behaviors, learning, and motivation, from a comparative approach. Prerequisites: PSY 101 and 102 and BIO 101 or BIO 111. Three credit hours

PSY 370 Engineering Psychology

Behavior of individuals operating equipment; effects of control and display design, legibility, and physical dimensions; principles of error reduction and application to military, aerospace, and industrial areas. Prerequisites: PSY 101 and 102. Three credit hours

PSY 371 History and Systems of Psychology

A survey of the history of psychological thought from its beginnings in Greek philosophy to modern times. Special attention will be given to the influence of philosophy and natural science on the development of contemporary psychology. The course concludes with a survey of the major systems. Prerequisites: PSY 101 and 102 and permission of the instructor. Three credit hours

PSY 375 Psychology of Thinking

An analysis of experimental studies of concept formation, problem solving, reasoning, creativity, and related topics. Prerequisites: PSY 101 and 102 and permission of the instructor. Three credit hours

PSY 400 Research in Psychology I

This course is open to qualified majors in psychology who wish to engage in independent readings on selected topics or conduct research projects. With permission of departmental chairman. Three credit hours

PSY 401 Research in Psychology II

This course is open to qualified majors in psychology who wish to engage in independent readings on selected topics or conduct research projects. With permission of departmental chairman. (Fall and Spring) Three credit hours

PSY 490 Senior Seminar in Psychology

A seminar designed to bring together and synthesize the previous courses in the major sequence. Open only to qualified seniors and by permission of the departmental chairman. Three credit hours

PSY 521 Individual Psychological Testing

Intensive training in the administration, scoring, and interpretation of the Stanford Binet form L-M and the Wechsler Intelligence Scales. Prerequisites: PSY 201 and 343 each with a grade of C or better and permission of the instructor. Open to graduate students only. Three credit hours

Social Welfare

Professor Romanyshyn (Chairman); Associate Professor Steinman.

The major in social welfare consists of an inter-disciplinary course of study including 42 hours of social welfare courses and a minimum of 15 hours of related advanced courses in social sciences and humanities to be individually planned by the student and the advisor. The program leads to a BA degree in Social Welfare and is approved by the Council on Social Work Education.

All students are reminded that, in addition to their meeting departmental requirements for a major leading to a baccalaureate degree, they must also meet the requirements of the school or college involved, as well as the University's General Education Requirements and the Physical Education Requirements. These general requirements are printed inside the front cover of this catalog.

REQUIRED COURSES

| | | <i>Credit hours</i> |
|-----------------|---|---------------------|
| SWE 252 and 253 | Methods of Social Work Practice I & II | 4 |
| SWE 254 and 255 | Community Laboratory — I & II | 10 |
| SWE 350 | Social Problems and Social Welfare Policy | 3 |
| SWE 351 | Human Services and the Consumer | 3 |
| SWE 352 and 353 | Methods of Social Work Practice III & IV | 4 |
| SWE 354 and 355 | Community Laboratory — III & IV | 12 |
| SWE 370 | Human Development and Social Welfare | 3 |
| SWE 455 | Social Welfare Research | 3 |
| SWE 456 | Issues in Social Welfare and Social Work | 2 |
| | | <hr/> 42 |

Note: The above requirements are for students who enter the major in 1972-1973 and subsequently. The requirements for students who began their major prior to 1972-1973 are described in the Catalog 1971-1972.

COURSE DESCRIPTIONS

- SWE 101 Introduction to the Human Services** Staff TBA
 An orientation to careers in the human services and an introduction to the organization and functions of community agencies and programs, through lecture, discussion, and volunteer experiences. Three credit hours
- SWE 252 Methods of Social Work Practice I** Staff TBA
 An introduction to concepts and beginning skills for intervening with individuals, families, groups, neighborhoods, organizations or communities with the goal of producing some level of social change consistent with the aspirations of both the system to be changed and the intervenor. Emphasizes theories of human and community development. Two credit hours
- SWE 253 Methods of Social Work Practice II** Staff TBA
 A continuation of SWE 252. Two credit hours
- SWE 254 Community Laboratory I** Staff
 For social welfare majors: a required internship in a neighborhood setting designed to provide an opportunity to relate social work theory to practice. Prerequisites: SWE 252 and 253 (concurrent). Four credit hours
- SWE 255 Community Laboratory II** Staff
 A continuation of SWE 254. Six credit hours
- SWE 350 Social Problems and Social Welfare Policy** Mr. Romanyshyn
 A critical examination of social welfare institutions and the social problems and social needs to which they are addressed. Prerequisite: at least six hours of social science. Three credit hours

- SWE 351 Human Services and the Consumer** Mr. Steinman
Study and critical evaluation of the bureaucracies, professions, and consumers of social work and other services. Prerequisite: SWE 350. Three credit hours
- SWE 352 Methods of Social Work Practice III** Staff TBA
An advanced course in social work theory and practice. Prerequisite: SWE 252 and 253. Two credit hours
- SWE 353 Methods of Social Work Practice IV** Staff TBA
A continuation of SWE 352. Two credit hours
- SWE 354 Community Laboratory III** Staff
An advanced field experience in a social agency setting. Prerequisites: SWE 352 and 353 (concurrent). Six credit hours
- SWE 355 Community Laboratory IV** Staff
A continuation of SWE 354. Six credit hours
- SWE 365 Social Work with Minority Groups** Staff TBA
An exploration of issues in social welfare policy and social work practice as they are related to the status of minority groups and their movement for self-determination. Prerequisites: SOC 371 and six hours of social welfare. Three credit hours
- SWE 370 Human Development and Social Welfare** Staff TBA
A study of the implications of research and theory related to human development for social welfare policy and social work practice. Prerequisites: PSY 220 and at least six hours of social welfare courses. Three credit hours
- SWE 375 Developmental Services to the Aging** Mr. Steinman
A study of policy, administration and implementation of human services to older people with a focus on a developmental view of aging. Prerequisite: six hours of social welfare courses. Three credit hours
- SWE 380 Child Welfare** Staff TBA
A study of the process of growing up under handicapping social conditions and the implications for social services and institutional change. Prerequisite: six hours of social welfare courses. Three credit hours
- SWE 397 Department Projects** Mr. Romanyshyn and Staff
Individual or group projects, requiring independent study of some aspect of social welfare, to be selected by students in consultation with faculty. Prerequisite: department permission. Three credit hours
- SWE 455 Social Welfare Research** Staff TBA
A study of the implications of social welfare research for social policy and social work practice. Prerequisite: at least six hours of social welfare courses. Three credit hours
- SWE 456 Issues in Social Welfare and Social Work** Mr. Romanyshyn
Senior seminar for social welfare majors that seeks to integrate class and field experience. Open to others with permission only. Two credit hours

Sociology

Professor Lacognata (on leave); Associate Professors Giguere, Monsen (Chairman); Assistant Professors Anspach, Fullam, Humphries; Instructor Tremper.

The Department of Sociology offers a major in Liberal Arts.

All students are reminded that, in addition to their meeting departmental requirements for a major leading to a baccalaureate degree, they must also meet the requirements of the school or college involved, as well as the University's General Education Requirements and the Physical Education Requirements. These general requirements are printed inside the front cover of this catalog.

REQUIRED COURSES

The minimum requirement for a major in the department is 36 hours of sociology (not to exceed 48 hours), which must include the following:

| | <i>Credit hours</i> |
|---|---------------------|
| SOC 101 Introduction to Sociology | 3 |
| SOC 300 Sociological Theory | 3 |
| SOC 301 Statistical Methods for Social Research | 3 |
| SOC 302 Methods of Social Research | 3 |
| SOC 400 Theory Construction | 3 |
| SOC 401 Senior Seminar | 3 |

In addition, each major is required to take at least one course from each of the following areas:

| | |
|--|---|
| SOC 310 - SOC 319 Social Processes | 3 |
| SOC 330 - SOC 339 Social Institutions | 3 |
| SOC 350 - SOC 359 Units of Social Life | 3 |
| SOC 370 - SOC 379 Social Problems | 3 |

The sociology major must also take six hours above the introductory level in one of the following:

| | | |
|--------------|------------------------------------|---|
| Anthropology | Political Science | |
| Economics | Psychology | |
| Geography | SCOGIS (Interdisciplinary Studies) | |
| History | Social Welfare | 6 |
| Philosophy | | <hr style="width: 10%; margin: 0 auto;"/> |
| | | 36 hours minimum |

COURSE DESCRIPTIONS

- SOC 101 Introduction to Sociology** Staff
 The fundamental concepts, principles, and methods of sociology; analyzes the influence of social and cultural factors upon human behavior; evaluates effect of group processes, social classes, stratification, and basic institutions on contemporary society. Three credit hours
- SOC 300 Sociological Theory** Mr. Anspach
 A critical examination of the sociological theories of such people as Marx, Weber, and Durkheim; and contemporary theorists such as Parsons and Merton. Prerequisite: SOC 101 and two other SOC courses. Three credit hours
- SOC 301 Statistical Methods for Social Research** Mr. Monsen
 Emphasis on the uses of statistics in the organization, interpretation, and presentation of research data. Measures of association and correlation; testing of hypotheses; probability and sampling. Prerequisite: SOC 101. Three credit hours
- SOC 302 Methods of Social Research** Miss Giguere
 Conceptualization and research design; data collection and data analysis; logic of inquiry and research techniques. Prerequisite: SOC 101 and SOC 301. Three credit hours
- SOC 310 Social Change** Miss Giguere
 Analysis of sociocultural factors related to social change and the dynamics of the change process. Prerequisite: SOC 101. Three credit hours
- SOC 311 Sociology of Adolescence** Mr. Anspach
 The social behavior of adolescents, the development of adolescent culture and the involvement of adolescents in the various social systems and the class structure of society. Prerequisite: SOC 101. (Not offered in 1972-73) Three credit hours
- SOC 312 Social Stratification** Mr. Anspach
 Systematic analysis of social differentiation and evaluation. Theories of and research in the structure and function of class, caste, and ethnic stratification. Prerequisite: SOC 101. Three credit hours
- SOC 313 Human Ecology** Staff
 Spatial distribution of human beings and related activities and social processes; contemporary ecological problems. Prerequisite: SOC 101. (Not offered in 1972-73) Three credit hours

SOC 314 Social Control

Mr. Tremper

Examination and comparison of major societal control mechanisms. Emphasis on institutions of social control and their role in establishing and maintaining social order. Prerequisite: SOC 101. Three credit hours

SOC 315 Personality and Social Systems

Mr. Anspach

A sociological examination of theories and research in some major areas relating personality and social systems; attitudes and behavior; socialization; social perception; a bureaucratic structure and personality; etc. Emphasis on issues involved in relating two theoretical levels of analysis. Prerequisite: SOC 101. (Not offered in 1972-73) Three credit hours

SOC 330 Sociology of the Family

Mr. Anspach, Miss Giguere

A sociological approach to the study of the family, including the structure of social relationships, the modern American family as a social institution, the cultural background of the family, and the impact of social change. Prerequisite: SOC 101. Three credit hours

SOC 331 Sociology of Education

Staff

A study of theory and research on the educational institution, with emphasis upon the multiple and changing functions of the formal education in industrial societies. Prerequisite: SOC 101. (Not offered in 1972-73) Three credit hours

SOC 332 Industrial Sociology

Staff

Social factors involved in the development of industry; social consequences of technological change; social organization within industry; problems encountered within the social structure(s) of industry. Prerequisite: SOC 101. (Not offered in 1972-73) Three credit hours

SOC 333 Sociology of Medicine

Miss Humphries

Attention is given to the relationship between sociocultural factors and the occurrence of disease and the social systems which are developed in the treatment and prevention thereof. Prerequisite: SOC 101. Three credit hours

SOC 334 Sociology of Religion

Staff

Religion as a social institution. Attention is given to the social correlates of religion and the functions of religion in society. Prerequisite: SOC 101. (Not offered in 1972-73) Three credit hours

SOC 350 Sociology of Urban Life

Miss Giguere

A descriptive and analytical approach to the study of city life. Emphasis is placed on environment, social organization, the ecological processes, population, areas, housing, and maladjustment. Prerequisite: SOC 101. Three credit hours

SOC 351 The Individual and the Community

Staff

Analysis of the function and the structure of the community. Emphasis on the ways in which individuals and groups are affected by community dynamics. Group processes, leadership, programmed planning, and development are stressed. Community project. Prerequisite: SOC 101. (Not offered in 1972-73) Three credit hours

SOC 352 Population Dynamics

Miss Giguere, Mr. Lacognata

General demographic theories, especially those concerning population growth. Population distribution and density; age, sex, and ethnic composition. Emphasis on fertility, mortality, and migration and their influence on population change. Prerequisite: SOC 101. Three credit hours

SOC 353 Collective Behavior and Social Movements

Mr. Monsen

Unstructured social behavior, e.g. crowds, mobs, riots. The rise and development of social movements emphasizing structuring and institutionalization. Prerequisite: SOC 101. (Not offered in 1972-73) Three credit hours

SOC 354 Small Group Analysis

Staff

Communication and interaction patterns within small groups are identified and analyzed. Course involves observation of and participation in such interaction. Prerequisite: SOC 101. (Not offered in 1972-73) Three credit hours

SOC 355 Social Structure and Politics

Mr. Monsen

The sociological analysis of politics with a cross-national emphasis, including the social basis of mass political behavior. Conceptual focus will be around consensus and conflict, bureaucratization and the institutionalization of interest groups, social movements, and political parties. Prerequisite: SOC 101. Three credit hours

SOC 356 Social Organization

Staff

An examination of selected institutions in modern society; analysis of social roles, processes, and structures within typical organized groups, such as industrial, military, religious, and fraternal organizations; discussion of bureaucracy, decision-making, social conflict; the implications of cultural and technological change. Prerequisite: SOC 101. (Not offered in 1972-73)

Three credit hours

SOC 357 Formal Organization

Staff

Examination of the nature and types of formal organizations, the relationships between them and the larger social context of which they are a part, and their internal structure. Prerequisite: SOC 101. (Not offered in 1972-73)

Three credit hours

SOC 358 Sociology of Rural Life

Staff

Significance of rural society in American culture. The impact of forces of change, including population movement. The significance of changes in the institutions of family, religion, education, and stratification. Prerequisite: SOC 101. (Not offered in 1972-73)

Three credit hours

SOC 370 Social Problems

Staff

The application of a sociological frame of reference to selected contemporary issues. Emphasis is placed on guiding the student toward a general understanding of why and how problems develop, how particular social groups are affected by them, and what is involved in dealing with them. Prerequisite: SOC 101.

Three credit hours

SOC 371 Race and Culture Conflict

Mr. Fullam

Analysis of factors involved in group conflict, with emphasis on minority groups in culture-conflict situations. Prerequisite: SOC 101.

Three credit hours

SOC 372 Juvenile Delinquency

Miss Humphries

The problem of adolescents in modern society. Discontinuities of teenage roles; influence of various subcultures on patterns of behavior. Prerequisite: SOC 101.

Three credit hours

SOC 373 Criminology

Miss Humphries

The social and cultural factors in the causation of crime among adults; organized crime as a social phenomenon in American life; specific types of criminal careers; legal and judicial aspects of crime. Prerequisite: SOC 101.

Three credit hours

SOC 374 Sociology of Mental Health and Mental Illness

Mr. Anspach

An examination of theory and research in the mental health field. Particular attention on the influence of culture on the definition of illnesses, the relationship between social factors and illness, and the social context of treatment. Prerequisite: SOC 101. (Not offered in 1972-73)

Three credit hours

SOC 375 Social Disorganization

Mr. Fullam

The origin and causes of socially disapproved behavior. Ways in which society interprets and copes with the deviant. Study of the major forms of social disorganization; specific social problems are considered, such as suicide, crime, drug addiction, alcoholism, prostitution, mental illness, divorce, group conflict. Prerequisite: SOC 101.

Three credit hours

SOC 380 Seminar in Social Thought

Mr. Lacognata

Analyses of contemporary social issues, ideas, and attitudes characterizing American society. Independent library research projects to be emphasized in concert with seminar dialogues. Prerequisites: juniors and seniors only and permission of instructor. (Not offered in 1972-73)

Three credit hours

SOC 397 Department Projects I

Staff

Independent reading and/or research for juniors and seniors. Apply to department chairman. Prerequisite: 15 hours in sociology.

Two or three credit hours

SOC 398 Department Projects II

Staff

Continuation of independent reading and/or research for juniors and seniors. Apply to department chairman. Prerequisite: SOC 397.

Two or three credit hours

SOC 400 Theory Construction

Mr. Monsen

The vocabulary and logic of theory construction; from assumptions and isolated propositions to systematized theory. The course aims at enabling the student to understand the utility of theory and its relevance for empirical research. Prerequisite: senior standing in sociology.

Three credit hours

SOC 401 Senior Seminar

Mr. Anspach

Focusing on synthesis, the seminar is meant to provide the sociology major with an overall view of his discipline and its perspective as well as an opportunity to consider current issues and the future of sociology. Prerequisite: senior standing in sociology.

Three credit hours

Theatre-Speech

Professor Hansen; Associate Professors Rootes (Chairman), Stump, Whiting; Assistant Professors Duclos, Pic'l, Power, Steele.

The Department of Theatre-Speech offers a major in both the College of Liberal Arts and in Secondary Education in the School of Education. The Theatre-Speech major in Liberal Arts is required to take a minimum of 30 credit hours in the major, while the student majoring in this area in Education must take a minimum of 39 hours in Theatre-Speech courses.

All students are reminded that, in addition to their meeting departmental requirements for a major leading to a baccalaureate degree, they must also meet the requirements of the school or college involved, as well as the University's General Education Requirements and the Physical Education Requirements. These general requirements are printed inside the front cover of this catalog.

REQUIRED COURSES FOR A MAJOR IN THEATRE-SPEECH IN THE COLLEGE OF LIBERAL ARTS

| | <i>Credit hours</i> |
|-------------------------------------|---------------------|
| TSP 170 Oral Communication | 3 |
| or | |
| TSP 171 Interpersonal Communication | 3 |
| TSP 120 Fundamentals of Acting | 3 |
| or | |
| TSP 290 Oral Interpretation | 3 |
| TSP 271 Argumentation | 3 |
| or | |
| TSP 272 Persuasion | 3 |
| TSP 110 Introduction to the Theatre | 3 |
| Other Theatre-Speech courses | 18 |
| | <hr/> |
| | 30 hours minimum |

REQUIRED COURSES FOR A MAJOR IN THEATRE-SPEECH IN THE SECONDARY EDUCATION PROGRAM OF THE SCHOOL OF EDUCATION

| | <i>Credit hours</i> |
|---|---------------------|
| TSP 170 Oral Communication | 3 |
| or | |
| TSP 171 Interpersonal Communication | 3 |
| TSP 135 Dramatic Production | 3 |
| TSP 271 Argumentation | 3 |
| TSP 110 Introduction to the Theatre | 3 |
| TSPE 410 Teaching Speech and Theatre in the Secondary School | 3 |
| Other Theatre-Speech courses | 24 |
| | <hr/> |
| | 39 hours minimum |

COURSE DESCRIPTIONS

TSP 11 Oral Communication in Business

A course in oral composition for business students in the two-year program. Deals with practice in verbalization and in the development of clarity in vocal expression. Also includes practice in the analysis of current issues leading to the organization and delivery of short talks, reports, etc.

Three credit hours

- TSP 110 Introduction to Theatre** Staff
 A basic course in theatre. Designed to familiarize the student with plays of various genre, periods, and styles and the elements of production. Includes the study of the influences of playwrights, production, aesthetics, and dramatic criticism on dramatic art as observed in current theatre. Includes correlation with the other arts.
Three credit hours
- TSP 120 Fundamentals of Acting** Staff
 A course designed to introduce the student to basic skills of acting through the use of mime, improvisation, and role playing. Emphasis made on internal preparation for developing a role and on external techniques for projecting that role.
Three credit hours
- TSP 130 Theatre Workshop I** Staff
 A course designed to give students practical application of theatre practices in the fields of acting, design, scene construction, costuming, properties, lighting, management, and directing. A laboratory course.
One credit hour
- TSP 131 Theatre Workshop II** Staff
 A continuation of TSP 130 — Theatre Workshop I. Prerequisite: TSP 130.
One credit hour
- TSP 132 Theatre Workshop III** Staff
 A continuation of TSP 131 — Theatre Workshop II. Prerequisite: TSP 131.
One credit hour
- TSP 133 Theatre Workshop IV** Staff
 A continuation of TSP 132 — Theatre Workshop III. Prerequisite: TSP 132.
One credit hour
- TSP 134 Play Production for Non-Majors** Staff
 An introduction to the responsibilities of the director and to the basic principles of stage directing, including choosing and analyzing plays, scheduling rehearsals, blocking action, and determining stage business. Backstage work on major and laboratory theatre productions will be required.
Three credit hours
- TSP 135 Play Production for Majors** Mr. Rootes
 A course in dramatic production covering such areas as stagecraft, scene design, lighting, costuming, and properties. Each class will do production work on a play. Laboratory.
Three credit hours
- TSP 170 Fundamentals of Oral Communication** Staff
 A beginning course in speaking, with emphasis on the analysis of significant problems, and the arrangement and delivery of this material.
Three credit hours
- TSP 171 Interpersonal Communication** Mr. Pic'l
 A lecture-discussion course designed to acquaint the student with the elemental components of speech communication, its basic nature and function. The course involves a study of the potential of human speech communication; the phenomenon of communication through a study of communication models and networks; the study of language and psycho-linguistics; the study of logic, dialectic, and critical and creative thinking. These topics are brought to focus upon the problems of misunderstanding and their remedy.
Three credit hours
- TSP 175 Intercollegiate Debate I** Mr. Pic'l
 Participation in intercollegiate competitive debate. This is essentially a laboratory course in which the student receives individual help in preparation for competition. Emphasis is placed upon analysis, research, case development, presentation, refutation, and rebuttal.
One-half credit hour
- TSP 176 Intercollegiate Debate II** Mr. Pic'l
 Continuation of TSP 175 — Intercollegiate Debate I. Prerequisite: TSP 175.
One-half credit hour
- TSP 177 Intercollegiate Debate III** Mr. Pic'l
 Continuation of TSP 176 — Intercollegiate Debate II. Prerequisite: TSP 176.
One-half credit hour
- TSP 178 Intercollegiate Debate IV** Mr. Pic'l
 Continuation of TSP 177 — Intercollegiate Debate III. Prerequisite: TSP 177.
One-half credit hour
- TSP 271 Argumentation** Mr. Pic'l
 A lecture-discussion-performance course in analysis, development, strategies and tactics of rational discourse. Primary emphasis is upon the uses of evidence and logic as tools of argumentative inquiry and argumentative advocacy. Rationality is examined in the context of alternate life styles.
Three credit hours

TSP 272 Parliamentary Procedure

Mr. Pic'l

A lecture-performance course in the conduct of organizational procedures, including the framing of constitution, conduct of assembly and committee meetings and related topics.

One credit hour

TSP 290 Oral Interpretation

Staff

A course in the assimilation and analysis of literary material (poetry, prose, drama), with emphasis on the techniques used in reading written material aloud to an audience. Designed to stimulate an understanding and responsiveness to literature and to develop the ability to convey to others, through oral reading, an appreciation of that literature.

Three credit hours

TSP 291 Voice and Diction

Staff

A study of the vocal mechanism, and the mechanics of effective vocal production. Includes the use of the International Phonetic Alphabet.

Three credit hours

TSP 320 Advanced Acting

Mr. Duclos

Designed to broaden the basic skills of the actor in achieving theatrical effectiveness through an individualized examination of the actor's problems and the actor's techniques in the approach to a role. Emphasis on scene work, plus movements associated with period styles. Prerequisite: TSP 120.

Three credit hours

TSP 330 Stage Lighting

Mr. Rootes

Introduction to stage lighting design, elements of electricity, color, light sources, instrumentation and control systems. Student will participate in lighting projects in practicum. Prerequisites: TSP 134 or 135.

Three credit hours

TSP 331 Scene Design

Mr. Rootes

Lecture and practicum in stage scenic design. Emphasis on the visual art and drafting of designs. Prerequisite: TSP 134 or 135.

Three credit hours

TSP 334 Stage Costuming

Mr. Rootes

Introductory course to stage costume design, construction, and organization. Student will be required to work costumes on a current production as practicum.

Three credit hours

TSP 335 Playwriting

Mr. Stump

A lecture-practicum course designed to acquaint the student with playwriting principles. Emphasis is placed on the one-act play form. Students will be required to complete a series of creative exercises culminating with the writing of a one-act play.

Three credit hours

TSP 340 History of the Theatre I

Mr. Stump

A study of the development of the drama, the physical theatre, and the modes of production from the ancient Greek period through to 1640.

Three credit hours

TSP 341 History of the Theatre II

Mr. Stump

A study of the development of the drama, the physical theatre, and the modes of production from the Restoration to the present.

Three credit hours

TSP 361 Late 19th Century Drama of the Western World

Staff

This course is designed to acquaint the theatre major and non-major with a broad range of dramatic literature of the early 19th century. Representative plays of Ibsen, Strindberg, Chekhov, Shaw, and others will be studied which exemplify the literary, social, political and philosophical aspects of the age.

Three credit hours

TSP 362 Early 20th Century Drama of the Western World

Staff

This course is designed to acquaint the theater major and non-major with a broad range of dramatic literature of the later 20th Century. Representative plays of Brecht, Anouilh, Williams, Beckett and others will be studied which exemplify the literary, social, political and philosophical aspects of the age.

Three credit hours

TSP 371 Debate

Mr. Pic'l

A lecture-discussion-performance course in the art of public argumentative advocacy. Emphasis is upon defense, attack, refutation and rejoinder in the context of immediate and direct confrontation, as occurs in courts of law, legislatures and other segments of the public arena. Prerequisite: TSP 271 or permission of instructor.

Three credit hours

TSP 380 Rhetorical Theory

Mr. Pic'l

A lecture-discussion course designed to investigate the literature in rhetorical theory from Aristotle to Kenneth Burke and I. A. Richards. Emphasis is placed upon the study of rhetoric as the art of discourse adapted to its end. Students will be required to complete a series of short critical research projects and to report the results in class. Final paper required. Prerequisite: any 3-credit speech course.

Three credit hours

TSP 390 Advanced Oral Interpretation

Staff

An intensive study of the theory and techniques involved in the interpretation of prose, poetry, and drama. Oral Interpretation will be treated as an art form here and emphasis will be placed upon performance. Prerequisite: TSP 290.

Three credit hours

TSP 430 Fundamentals of Directing

Designed to train directors in theatrical organization and rehearsal techniques. Encompasses composition, picturization, movement, rhythm, and pantomimic dramatization. Course involves both contemporary theory and practical application. Prerequisite: TSP 120, 134, 135 or permission. Staff
Three credit hours

TSP 433 Theatre Project

Investigation in laboratory work into special divisions of theatre production or research. Staff
Three credit hours
Prerequisite: permission from the staff.

TSP 450 Dramatic Theory

A study of the development of comedy and tragedy through readings in classic and modern criticism. Includes melodrama and farce, and the merging of all modes in the modern theatre. Consideration of leading philosophical theories and their bearing on the theatre. Prerequisites: TSP 110, 340, 341. Mr. Hansen
Three credit hours

TSP 460 American Drama

A study of the drama in the United States. A brief history of early American Playwrights followed by a close study of major figures, with O'Neill as the center. Others: Maxwell Anderson, Robert Sherwood, Tennessee Williams, Arthur Miller, and Edward Albee. Mr. Stump
Three credit hours

School of Business and Economics

JOHN W. BAY, Dean

Department of Associate Business Administration: Associate Professors Andrews, McKeil (Chairman); Assistant Professors Annett, Taylor; Lecturer Emanuelson.

Department of Business Administration: Professors Findlay (Chairman), Fitzpatrick, Siedlik, Waters; Associate Professors Hall, Jagolinzer (On leave 1972-73); Assistant Professors Chandler, Manck; Lecturer Plowman.

Department of Economics: Professor Durgin; Associate Professors Bay, Witherill; Assistant Professors Bien (Chairman), McMahon.

The School of Business and Economics offers a number of different programs to meet student needs. The School offers a two-year program in Business Administration leading to an Associate of Science in Business Administration degree. Four-year undergraduate programs are available in three areas of study: Accounting, Business Administration, and Economics. Upon successful completion of one of these fields, the degree of Bachelor of Science is awarded. The School also provides a graduate program leading to the degree of Master of Business Administration.

TWO-YEAR ASSOCIATE OF SCIENCE PROGRAM IN BUSINESS ADMINISTRATION

This program is designed to serve two purposes: to prepare students who wish to complete their education in two years for employment in junior management positions, and to provide a sound foundation for those students who perform well and who wish to transfer to the four-year business administration program here or at another institution.

While the program emphasizes business, it contains some courses in liberal studies such as English composition, literature, speech, human relations, and mathematics. Within the business areas some electives are available for selection by the student according to his interests and desires.

Students admitted to the associate degree program pursue the following curriculum during their two years.

ASSOCIATE DEGREE PROGRAM

The Freshman Year

| FALL SEMESTER | |
|---|---------------------|
| <i>Subject</i> | <i>Credit hours</i> |
| BUS 11 Principles of Accounting | 3 |
| ECON 11 Principles of Economics .. | 3 |
| PE 100 Physical Education | 1 |
| Elect one of the following: | |
| ENG 11 Composition | 3 |
| ENG 120 Introduction to Literature | 3 |
| Elect one of the following: | |
| BUS 95 Business and Society | 3 |
| TSP 11 Oral Communication in Business | 3 |
| Elect one of the following: | |
| MS 10 Mathematical Analysis for Business Decisions | 3 |
| MS 109 Linear Systems | 3 |

| SPRING SEMESTER | |
|--|---------------------|
| <i>Subject</i> | <i>Credit hours</i> |
| BUS 12 Principles of Accounting | 3 |
| ECON 12 Principles of Economics | 3 |
| PE 100 Physical Education | 1 |
| Elect one of the following: | |
| ENG 11 Composition | 3 |
| ENG 120 Introduction to Literature | 3 |
| Elect one of the following: | |
| BUS 95 Business and Society | 3 |
| TSP 11 Oral Communication in Business | 3 |
| Elect one of the following: | |
| MS 11 Mathematical Analysis for Business Decisions II | 3 |
| MS 110 Elementary Mathematical Analysis | 3 |

The Second Year

| FALL SEMESTER | |
|---|---|
| BUS 40 Elements of Industrial Management | 3 |
| BUS 60 Marketing | 3 |
| BUS 90 Business Data Processing | 3 |
| Elect one of the following: | |
| BUS 93 Human Relations in Business | 3 |
| ENG 19 Expository Writing | 3 |
| Elect one of the following: | |
| BUS 15 Intermediate Accounting .. | 3 |
| BUS 20 Business Finance | 3 |

| SPRING SEMESTER | |
|---|---|
| BUS 43 Problems of Small Business .. | 3 |
| BUS 80 Business Law | 3 |
| Elect one of the following: | |
| BUS 93 Human Relations in Business | 3 |
| ENG 19 Expository Writing | 3 |
| Elect one of the following: | |
| BUS 64 Retailing | 3 |
| BUS 67 Sales Management | 3 |
| Students may continue with their first semester selection: | |
| BUS 16 Intermediate Accounting | 3 |
| BUS 21 Business Finance | 3 |
| or | |
| BUS 30 Investment Management | 3 |

MS 109 and MS 110 or MS 211 and MS 212 can be substituted for BUS 43 and BUS 64 or BUS 67. In that case the student takes BUS 93 and ENG 19 in the spring.

Upon completion of the 62 hour program with a grade point average of 2.0, a student will be awarded the degree of associate of science in business administration. (Students exempted from physical education take 60 hours.)

Graduates are equipped for employment at the junior management level in many fields of business. Some fields of business that graduates have entered are sales, retailing, banking, finance, management trainee programs, and accounting. Students who have a 3.0 cumulative average at the end of the first year or a 2.4 cumulative average at the end of their second year may transfer to the four-year business administration program.

Any high school graduate may apply for admission to the two-year program. A college preparatory course is not required. Applicants should complete the regular University of Maine application form and specify the Associate in Business Administration program. Candidates must also complete the College Entrance Examination Board's general Scholastic Aptitude Test.

FOUR-YEAR UNDERGRADUATE PROGRAMS IN BUSINESS AND ECONOMICS

The primary objective of the undergraduate program in Business Administration is to develop the student's abilities to assume the responsibilities of business management. The program is aimed at providing the broad training necessary for successful business management in a rapidly changing economy. No attempt is made to provide detailed specialized training in particular business tasks. The program aims, rather, at developing skills and attitudes of mind that will enable the student to cope successfully with the changing problems of business management in the years ahead. The program is implemented in three general phases: First, the student acquires broad training in the liberal arts and sciences for the necessary foundation upon which the student's future education will build. Second, the student pursues a program of study designed to provide an understanding of the major functional areas common to most business operations and a knowledge of certain fields which are particularly relevant to the study of business management. This is referred to as the "core" program and includes basic courses in accounting, business data processing, economics, finance, business law, marketing, and management. Third, the student undertakes to acquire a deeper knowledge of the selected major field. This is accomplished by taking 18 credit hours beyond the core program.

The Department of Business Administration offers a Cooperative Education Program in which students, while working in business or industry, may earn a maximum of 15 academic credits. The program consists of seven academic periods and three alternating related work experiences. This program combines the efforts of employers and educators in forming a meaningful educational experience. Its primary value is educational, although it does provide the opportunity for students to earn money for college expenses. Students who desire further information should contact the chairman of the Department of Business Administration.

The undergraduate program in economics is designed to prepare students broadly for careers such as civil service, law, management, public affairs, and labor relations. Economics is a social science and as such must be studied in the perspective of a broad training in the liberal arts and sciences. Many students who plan to attend graduate and professional schools will find the undergraduate economics program to be valuable training for advanced academic work. Within the economics program, courses are available in such fields as: microeconomic analysis, money and banking, macroeconomic analysis, international trade, comparative economic systems, public finance, and the social control of business.

GENERAL GRADUATION REQUIREMENTS OF THE SCHOOL OF BUSINESS AND ECONOMICS FOR ALL CANDIDATES FOR A B.S. DEGREE

All students are required to complete 120 hours.

To be eligible for a B.S. degree in the 4-year programs in the School of Business and Economics, the student must have attained a cumulative grade point average of 2.0 or better:

- a. For all courses taken in 4-year programs at the University, and
- b. For all 4-year courses in business and economics.

ADDED REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE IN BUSINESS ADMINISTRATION

- A. General Foundation Courses 50 credit hours
 Six hours of interdisciplinary studies
 Twelve hours of humanities
 Six hours of fine and applied arts
 Twelve hours of social sciences
 Twelve hours of mathematics
 MS 109 Linear Systems
 MS 110 Elementary Mathematical Analysis
 MS 211 Probability
 MS 212 Statistics
 Two hours (one year) of physical education (except when exempted)
- B. Core Requirements in Business and Economics 30 credit hours
 ECON 101 Principles of Economics I
 ECON 102 Principles of Economics II
 One 300 level ECON course
 BUS 101 Introductory Accounting
 BUS 320 Business Finance
 BUS 340 Elements of Industrial Management
 BUS 360 Marketing
 BUS 380 Business Law
 BUS 385 Business Economics
 BUS 390 Business Data Processing
- C. Major Field Requirements 18 credit hours
 Accounting Major
 BUS 301 Intermediate Accounting
 BUS 302 Intermediate Accounting
 BUS 305 Cost Accounting
 BUS 310 Advanced Accounting
 BUS 410 Auditing
 Elect either:
 BUS 311 Advanced Accounting
 BUS 313 Federal Tax Reporting
 Business Administration Major
 BUS 102 Financial and Management Accounting
 BUS 330 Investment Management
 BUS 370 Managerial Marketing
 BUS 450 Business Management and Policy
 Six hours of Business or Economics Electives
- D. Electives

ADDED REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE IN ECONOMICS

- A. General Foundation Courses 38 credit hours
 Six hours of interdisciplinary studies
 Six hours of humanities
 Six hours of fine and applied arts
 Six hours of social sciences
 Twelve hours of mathematics
 MS 109 Linear Systems
 MS 110 Elementary Mathematical Analysis
 MS 211 Probability
 MS 212 Statistics
 (A student preparing for a graduate school program in economics should consult with the Department Chairman for a possible alternate mathematical sequence.)
 Two hours (one year) of physical education (except when exempted)
 It is recommended that students who have writing deficiencies take either ENG 001, Writing Laboratory, or ENG 100, College Writing. Students having difficulty in oral communication should take TSP 170, Fundamentals of Oral Communication.

B. Course Requirements in Economics and Business

33 credit hours

Fifteen hours of core requirements:

- ECON 101 Principles of Economics I
- ECON 102 Principles of Economics II
- ECON 301 Macroeconomic Analysis
- ECON 302 Microeconomic Analysis
- BUS 101 Introductory Accounting

Completion of at least eighteen additional hours in economics courses, excluding ECON 201.

In cooperation with the School of Education, the School of Business and Economics offers (1) an Economics Major and Economics Minor leading to the degree of Bachelor of Science in Education for students in the School of Education who wish to prepare themselves to teach economics in public and private schools, and (2) a Social Science Area Major with Concentration in Economics leading to the degree of Bachelor of Science in Education for students in Secondary Education wishing to prepare themselves to teach economics in secondary school in addition to other social sciences including history, geography, and political science. This latter program is described in the section of the catalog dealing with the department of Geography-Anthropology, where other Social Science Area majors and minors are listed.

Details concerning the Economics Major and Economics Minor programs for students in the School of Education are listed below.

REQUIREMENTS FOR AN ECONOMICS MAJOR OR AN ECONOMICS MINOR FOR STUDENTS IN THE SCHOOL OF EDUCATION

Criteria For Admission And Retention Of Students

Admission to the Education program by the School of Education plus a minimum of "C" grades in Economics courses.

Secondary Education — Economics Major

Requirements and Content

| | <i>Credit Hours</i> |
|--|---------------------|
| ECON 101 and 102 Principles of Economics | 6 |
| MS 120 Statistical Inference | 3 |
| ECON 301 and 302 Intermediate Micro and Macro Theory | 6 |
| ECON 350 Comparative Economic Systems | 3 |
| EC ED 300 Economic Concepts and Resource Materials for Educators | 3 |
| Additional Economic Electives | 15 |

Total 36

Secondary Education — Economics Majors will do practice teaching in the field of economics, if possible, and will meet all other requirements of the University and the School of Education.

Elementary and Secondary Education — Economics Minor

| | |
|--|---|
| ECON 101 and 102 Principles of Economics | 6 |
| ECON 201 Current Economic Problems | 3 |
| ECON 350 Comparative Economic Systems | 3 |
| EC ED 300 Economic Concepts and Resource Materials for Educators | 3 |
| Additional Economic Electives | 6 |

Total Credits 21

Economics Minors will also meet all other requirements of the University and the School of Education.

MASTER OF BUSINESS ADMINISTRATION

Since the fall of 1964 the School of Business and Economics at the University of Maine at Portland-Gorham has offered a master's degree in Business Administration. The M.B.A. program is designed to give students a broad preparation in business administration upon which men and women may build executive careers. To this end, the curriculum is designed to give each student a proper orientation toward business, to develop skills in using tools of analysis, to provide an understanding of the functional areas of business, and to develop a capacity for understanding and adapting to technological and social change. Candidates who enter with no previous college work in business will typically need from one to one and one-half years to complete undergraduate prerequisites in business administration. The graduate work may be completed in one calendar year.

Requirements for the M.B.A. degree consist of undergraduate foundation courses of thirty-three semester hours, which are apportioned in the areas of business administration, economics, and mathematics as listed below. These courses must be completed prior to the completion of the first twelve hours of graduate courses. This stipulation means that a student may take some graduate courses prior to completing the undergraduate work in cases where the prerequisites for specific graduate courses are satisfied. The graduate program comprises thirty hours of graduate courses, including twenty-one hours of required core courses and nine hours of electives, selected from the many offerings of the M.B.A. program.

Most of the courses are offered in the evening to facilitate students whose career or family responsibilities prevent their attending a day program. The course offerings and scheduling are directed to these students. Entry in the M.B.A. program is possible at the beginning of either semester or the summer session. There is no thesis requirement, but research and writing are required throughout the graduate program. These writings often develop from solutions to case problems which are used in many of the courses.

Admission

Application for admission to the M.B.A. program should be made to the Dean of the Graduate School. Admission to this program requires the recommendation of the Graduate Admissions Committee at the University of Maine at Portland-Gorham and the approval of the Dean of the Graduate School.

To be admitted, an applicant must have received a baccalaureate degree or its equivalent and must show promise of ability to pursue advanced study and research. All applicants for the M.B.A. program must submit scores obtained on the Admission Test for Graduate Study in Business (ATGSB) which is administered by the Educational Testing Service, Princeton, New Jersey.

An application is not complete until all the required transcripts, ATGSB scores, and letter of recommendation are on file in the Office of the Graduate School. Applications should be received by the Graduate School at least six weeks before the date of registration for the semester or summer session in which the applicant wishes to begin his study. All application material becomes the property of the University of Maine.

Status

An applicant's admission status will be one of the following:

Regular. Granted to students who have a record of high scholarship in their academic field and about whom there is no question of ability to carry

on graduate study. If the applicant has not completed all of the required undergraduate courses, the applicant will be advised in the letter of acceptance that these courses must be completed prior to completing twelve hours of graduate credit.

Conditional. Students whose academic record does not show high scholarship, but are deemed by the Graduate Admissions Committee to show promise of success in the M.B.A. program, may be admitted on a conditional basis. Conditional basis admission may also be used under other circumstances. The letter of acceptance will contain the conditions which must be met before the student can be re-classified as Regular. If the applicant has not completed all of the required undergraduate courses, the applicant will be advised in the letter of acceptance that these courses must be completed prior to completing twelve hours of graduate credit.

Special. This status is assigned to those in the general category of Non-degree Students. Special status is obtained by submitting a request to the Graduate Admissions Committee with supporting evidence of ability to perform graduate level work. Students granted this status will receive a grade but credit will not normally be granted towards the M.B.A. degree at the University of Maine at Portland-Gorham.

Transient. A person enrolled in any other graduate program at the University of Maine or another school may enroll in graduate business administration courses if the required prerequisite courses have been taken. A request for transient status shall be made to the chairman of the M.B.A. program.

MASTER OF BUSINESS ADMINISTRATION

Undergraduate Courses Required

| | | | |
|--------------|-----------|------------|-----------|
| Accounting | (6 hours) | Finance | (3 hours) |
| Business Law | (3 hours) | Management | (3 hours) |
| Calculus | (3 hours) | Marketing | (3 hours) |
| Economics | (9 hours) | Statistics | (3 hours) |

Candidates for the M.B.A. degree must complete twenty-one hours of required graduate courses and nine hours of graduate elective courses prior to the completion of their formal graduate degree program.

Required Graduate Courses

- BUS 510 Operations Research
- BUS 520 Industrial Relations
- BUS 530 Senior Executive Decision Making
- BUS 540 Managerial Accounting
- BUS 550 Managerial Economics
- BUS 560 Financial Management
- BUS 570 Marketing Management

Elective Graduate Courses

- BUS 523 Collective Bargaining
- BUS 527 Human Relations in Industry
- BUS 533 Production Management
- BUS 537 Organizational Behavior in Business
- BUS 553 Business Cycles and Forecasting
- BUS 563 Investment Management
- BUS 573 Market Research and Management
- BUS 583 Business Logistics

For further information and applications, telephone 773-2981, Extension 206, or write:

Chairman, M.B.A. Program
School of Business and Economics
University of Maine at Portland-Gorham
96 Falmouth Street, Portland, Maine 04103

M.B.A. Grade Policy

In order to receive graduate degree credit for a course, a student must be registered in the graduate program as a graduate student. Generally graduate credit will not be granted retroactively for graduate work which was taken as a special student.

A grade of "I" (deficient), a temporary grade given when the student, because of extraordinary circumstances, has failed to complete required work, must be completed and a grade submitted in the semester following the semester in which the "I" grade was received. An "I" which is not removed during this period becomes an "F".

A withdrawal while passing (WP) is an approved withdrawal from a course, after the end of the first five weeks, when the student is doing satisfactory work to the date of recommendation for the withdrawal. The WP grade is not considered in grade-point average computation.

All courses completed for the M.B.A. must be passed with a minimum grade of "C". A grade of "C" will carry graduate degree credit. However, no student will be allowed to apply more than six (6) hours of "C" grades towards any requirements of the M.B.A. taken after being admitted to the program.

If a student receives a grade of "D" in a required course, the student must retake the course over again. If a "D" grade is received in an elective course, the student may or may not elect to retake the elective course. Whether the course is required or an elective, the "D" grade will be included in the student's grade point average. If the course is repeated, the student must pass the course with a minimum grade of "C". When the course is repeated, both grades remain on the transcript but only the last grade applies to the grade point average.

A grade of "F" in any course will constitute cause for automatic dismissal from the program.

A student enrolled on a conditional basis must obtain a grade point average of 3.0 or better by the time of completion of fifteen (15) hours of graduate courses. At this point, the student must also have satisfied the condition under which the student was admitted to the program. If one or the other of these requirements is not met, the student will be dismissed from the program. If at any time during the first fifteen (15) hours the conditional student's grade point average falls below 3.0, the student will be placed on probation. The probational status must be removed within one (1) academic year or by the completion of fifteen (15) hours of graduate courses, whichever comes first, or the student will be dismissed from the program.

A regular student whose grade point average falls below 3.0 will be automatically placed on a probational status. The student will have nine (9) semester hours in which to bring the grade point average back to the required 3.0. Students who fail to do this will be dismissed from the program.

A student who has completed the program of study must have a grade point average of 3.0 to receive the M.B.A. degree. Any student whose grade point

average falls below 2.0 at any time will automatically be dismissed from the program. Since the grade for a single course cannot be considered an average, this rule will be applied when the student's grades for not less than two courses have become available.

Transfer of Credit

A student enrolled in the UMPG graduate business administration program may, after completing nine hours of graduate credit, apply to have graduate course credit transferred from other institutions. Generally courses taken while enrolled as a graduate student at other institutions will be accepted when work is "B" grade or better in courses corresponding to those offered by the University of Maine at Portland-Gorham and if applicable to the student's program of study.

If students relocate from the Portland area, they may apply to continue their program at another graduate school of business and have the degree granted by UMPG. In any case involving transfer credit, a minimum of eighteen (18) hours must be taken at UMPG in order to obtain the M.B.A. degree from UMPG. All requests for transfer credit must be approved by the graduate admissions committee. When credit transfer is requested to complete any part of the M.B.A. program at UMPG it must be requested and approved prior to the enrolling in another graduate school of business and not after the course has been completed.

DESCRIPTIONS OF COURSES IN THE ASSOCIATE DEGREE PROGRAM

BUS 11 Principles of Accounting I

An introduction to accounting concepts, principles and practices. Emphasis on the preparation and interpretation of statements for financial and management uses as well as the measurement of assets, liabilities, equity, revenues, and expenses. Three credit hours

Mr. McKeil

BUS 12 Principles of Accounting II

An introduction to the accounting for partnerships, corporations, and manufacturing. Emphasis on analysis and interpretation of accounting data for management planning and control. Prerequisite: BUS 11. Three credit hours

Mr. McKeil

BUS 15 Intermediate Accounting I

An intensive study of accounting theory including the accounting for corporate capital, investment in securities, cash, receivables, and liabilities. Prerequisites: BUS 11 and BUS 12. Three credit hours

Mr. Hall

BUS 16 Intermediate Accounting II

The study of accounting theory including inventories, property, plant and equipment, intangible assets, and special problems of income determination. Corporate financial statements, ratio analysis, and analysis of variations in income and costs are studied. Prerequisites: BUS 11, BUS 12, and BUS 15. Three credit hours

Mr. Hall

BUS 20 Business Finance I

A study of the promotion, organization, and financing of the single proprietorship, partnership, and corporation. Such topics as funds flows, cash budgeting, and capital budgeting are examined. Prerequisites: ECON 11, ECON 12, and BUS 11. Three credit hours

Mr. Andrews

BUS 21 Business Finance II

An in-depth examination of selected topics in finance with advanced cases and problems used to relate these topics to the theories and principles developed. Cost of capital and other tools are developed for use in the decision-making process. Prerequisite: BUS 20. Three credit hours

Mr. Andrews

BUS 30 Investment Management

Provides the planning and management of investment programs for all types of investors. Evaluates the various media of investments in terms of their risks and profits. The functions of the stock market and its behavior are examined. Prerequisites: ECON 11, ECON 12, BUS 11, and BUS 12. Three credit hours

Mr. Andrews

BUS 40 Elements of Industrial Management

A comprehensive survey of all phases of the management of industrial and business enterprises. The influence of industrial relations is interspersed with the treatment of management's technical problems. Prerequisites: ECON 11 and ECON 12. Three credit hours

Mr. Annett, Mr. Taylor

BUS 43 Problems of Small Business

Mr. Annett

Aspects of management that are uniquely important to small firms, in the interest of developing an understanding of the economic and social environment in which the small concern functions. Practice in decision-making on the same types of problems that small businessmen face. Problems relevant to small business operations in Maine will be stressed. Prerequisite: BUS 11.

Three credit hours

BUS 60 Marketing

Mr. Andrews

Problems of distribution for representative industrial and consumer goods, including merchandising policies, selection of distribution channels, price policies, and advertising and sales promotion methods. Prerequisites: ECON 11, ECON 12, and BUS 11.

Three credit hours

BUS 64 Retailing

Mr. Taylor

Study of the retail distribution structure and of the problems involved in successful store operation under current conditions. Prerequisite: BUS 60.

Three credit hours

BUS 67 Sales Management

Mr. Taylor

Analysis of the problems facing marketing management in formulating sales policy and in managing the sales organization. Prerequisite: BUS 60.

Three credit hours

BUS 80 Business Law

Mr. Emanuelson

This course, an introduction to the study of business law, includes origins of the law, its nature and classification; contract law and the laws of agency and personal property are comprehensively dealt with.

Three credit hours

BUS 90 Business Data Processing

Mr. Siedlik

The application of electronic data processing equipment to accounting systems. Basic principles of operation and programming. Selected case problems. Prerequisites: BUS 11 and BUS 12.

Three credit hours

BUS 93 Human Relations in Business

Mr. Annett

Introduction to the behavioral sciences, emphasizing typical behavioral problems faced in business by employees and management. The laboratory method of teaching, involving the student in role playing and analyzing collected data, is supplemented with lectures, case analysis, and outside reading.

Three credit hours

BUS 95 Business and Society

Mr. Taylor

An examination of the significant relationships between business and the social, political, and economic environment of our society for the purpose of evaluation of goals, values, ethics, and practices in the business world. Historical development of business and capitalism is covered. The industrial and commercial structures and functions in our society are described. Social relationships internal to the firms are explored. Special problems concerning mass production, automation, and employment are discussed along with other current and future issues and problems related to business and our society.

Three credit hours

ECON 11 Principles of Economics I

Mr. McKeil

A theoretical analysis of the basic characteristics, institutions, and operational activities of a modern capitalistic economy which is involved in the transformation of scarce economic resources into the goods and services demanded by consumers. Topics discussed include inflation, unemployment, government monetary and fiscal policy to achieve full employment, and economic growth.

Three credit hours

ECON 12 Principles of Economics II

Mr. McKeil

A theoretical analysis of the firm, and its role in the transformation of scarce economic resources into the goods and services demanded by consumers. Special attention is focused on the development of a market mechanism for the exchange of goods, services, and resources within a capitalistic economy. Topics discussed include consumer preferences and consumer behavior, production theory and production costs, the monopoly firm, and resource pricing.

Three credit hours

ENG 11 Composition

Staff

Intensive practice in expository writing, with reading of illustrative material.

Three credit hours

ENG 19 Expository Writing

Staff

Training in clear expository writing of formal reports, business communications, and related material.

Three credit hours

ENG 120 Introduction to Literature

(See English Department course offerings)

ENG 150 Topics in Literature

(See English Department course offerings)

MS 10 Mathematical Analysis for Business Decisions I

The traditional topics of elementary mathematics are included to acquaint the student with their uses as tools which can be applied to solving problems of a business-making nature. Topics covered include integers, real numbers, number systems, set theory, and complex numbers. Staff
Three credit hours

MS 11 Mathematical Analysis for Business Decisions II

A continuation of MS 10. Staff
Three credit hours

MS 109 Linear Systems

(See Mathematics Department course offerings)

MS 110 Elementary Mathematical Analysis

(See Mathematics Department course offerings)

MS 211 Probability

(See Mathematics Department course offerings)

MS 212 Statistics

(See Mathematics Department course offerings)

TSP 11 Oral Communication in Business

A course in oral composition for business students in the two-year program. Deals with practice in verbalization and in the development of clarity in vocal expression. Also includes practice in the analysis of current issues leading to the organization and delivery of short talks, reports, etc. Staff
Three credit hours

UNDERGRADUATE COURSES IN THE FOUR-YEAR PROGRAM IN BUSINESS ADMINISTRATION

BUS 101 Introductory Accounting

An introduction to accounting principles and concepts. Emphasis is placed on the preparation of financial statements and the accounting for assets, liabilities, equities, revenue and expenses. Mr. Findlay
Three credit hours

BUS 102 Financial and Management Accounting

(This course is designed for non-accounting majors.) It deals with the uses of accounting data for financial and management control. Emphasis is placed on the basic concepts associated with the corporate form of organization, manufacturing operations, cost determinations and controls, analysis of financial statements, sources and uses of working capital, consolidated financial statements, and income tax considerations. Prerequisite: BUS 101. Mr. Findlay
Three credit hours

BUS 301 Intermediate Accounting I

An intensive study of accounting theory including the accounting for corporate capital, investment in securities, cash, receivables, and liabilities. Prerequisite: BUS 101. Mr. Hall
Three credit hours

BUS 302 Intermediate Accounting II

The study of accounting theory including inventories, property, plant and equipment, intangible assets, and special problems of income determination. Corporate financial statements, ratio analysis, and analysis of variations in income and costs are studied. Prerequisite: BUS 101. Mr. Hall
Three credit hours

BUS 305 Cost Accounting

The principles and methods of job order costing and process costing, including analysis and allocation of factory overhead. A study of joint and by-product costs. Methods and management use of standard costs. Management decision-making through the use of direct costing and cost volume-profit analysis. Prerequisite: BUS 101. Mr. Findlay
Three credit hours

BUS 306 Advanced Cost Accounting

Devoted primarily to a detailed study of management uses of cost data. In addition, budgets, forecasting, and capital budgeting are discussed. Prerequisites: BUS 101 and BUS 102. (Not offered in 1972-73) Staff
Three credit hours

BUS 310 Advanced Accounting I

A study of accounting principles and theory related to sources and application of funds; partnerships; consignment and installment sales; and receiverships. Prerequisites: BUS 301 and BUS 302. (Offered in 1972-73 only by the Continuing Education Division) Mr. Hall
Three credit hours

BUS 311 Advanced Accounting II

A study of accounting principles and theory related to home office and branch accounting; consolidations, mergers, parent and subsidiary accounting; governmental and institutional accounting; estates and trusts. BUS 301 and BUS 302. (Offered in 1972-73 only by the Continuing Education Division) Mr. Hall
Three credit hours

BUS 313 Federal Tax Reporting

Federal tax laws as they affect individuals, partnerships, corporations, and related topics. Prerequisite: BUS 101. (Offered in 1972-73 only by the Continuing Education Division)

Three credit hours

Mr. Fitzpatrick

BUS 320 Business Finance

This course deals with the promotion, organization, and financing of the single proprietorship, partnership, and corporation. It also utilizes advanced cases and problems related to the above topics. Prerequisites: ECON 101 and ECON 102; BUS 101 and BUS 102 or BUS 301.

Three credit hours

Mr. Fitzpatrick

BUS 330 Investment Management

Provides the planning and management of investment programs for all types of investors. Evaluates the various media of investments in terms of their risks and profits. The functions of the stock market and its behavior are examined. Prerequisite: BUS 320.

Three credit hours

Mr. Waters

BUS 340 Elements of Industrial Management

A comprehensive survey of all phases of the management of industrial and business enterprises. The influence of industrial relations is interspersed with the treatment of management's technical problems. Prerequisites: ECON 101 and ECON 102.

Three credit hours

Mr. Chandler

BUS 346 Personnel Management

The selection, training, and management of personnel in private and public business. Designed for the student interested in administration, office management, or personnel work in education, business, engineering, public service, and other fields. Prerequisite: BUS 340. (Not offered in 1972-73)

Three credit hours

Mr. Chandler

BUS 348 Industrial Relations

A study of industrial relations patterns in the U.S. Major focus is on the relationship between management and organized labor, and the bargaining, administration, and interpretation of contracts. The problem of dispute settlement and a comparison of methods used in the U.S. and abroad. Attention is also given to industrial relations in unorganized firms and in the Civil Service. Prerequisite: BUS 340 or BUS 346.

Three credit hours

Mr. Chandler

BUS 352 Dynamics of Organization and Behavior

An analysis of business organization and the problems of administrators in an interpersonal setting. Primary emphasis is on the findings of behavioral sciences which are particularly relevant to human relations and adjustment problems in modern organizations. Motivation, leadership, and organization theory as related to work and productivity, and associated topics are also covered. Prerequisite: BUS 340 or BUS 348.

Three credit hours

Mr. Manck, Mr. Waters

BUS 360 Marketing

Problems of distribution for representative industrial and consumer goods, including merchandising policies, selection of distribution channels, price policies, and advertising and sales promotion methods. Prerequisites: ECON 101 and ECON 102.

Three credit hours

Mr. Manck

BUS 363 Advertising

The place of advertising in the marketing program. Business cases are analyzed to determine those situations in which advertising may be profitably employed to stimulate primary and selective demand for industrial and consumer goods and services. Prerequisite: BUS 360.

Three credit hours

Staff

BUS 368 Sales Management

An analysis of the problems facing marketing management in formulating sales policy and in managing the sales organization. Prerequisite: BUS 360. (Offered in 1972-73 only by the Continuing Education Division)

Three credit hours

Mr. Manck

BUS 370 Managerial Marketing

A managerial approach emphasizing the integration of marketing, as an organic activity, with other activities of the business firm. Study is directed toward recognition and appreciation of the problems encountered by top marketing executives in modern business, with a consideration of the policies and procedures that may be followed in their solution. By case analysis and consideration of current marketing literature, students are provided opportunities for development of abilities in solving marketing management problems. Prerequisites: BUS 360 and MS 212.

Three credit hours

Mr. Manck

BUS 373 Marketing Research

A consideration of marketing research as a tool in the solution of problems in production and distribution. Emphasis on problem formulation, exploratory research, research design, basic observational and sampling requirements, data analysis, interpretation, and sampling. Prerequisites: BUS 360 and MS 212

Three credit hours

BUS 380 Business Law

Mr. Siedlik, Mr. Emmanuelson

This course, an introduction to the study of business law, includes origins of the law, its nature and classification; contract law and the laws of agency and personal property are comprehensively dealt with. Prerequisite: (Junior-Senior status)

Three credit hours

BUS 385 Business Economics

Mr. Durgin

Application of economic analysis to concrete business situations. Emphasis on developing the student's ability to apply economic analysis to the solution of problems faced by business management. Prerequisite: BUS 320.

Three credit hours

BUS 390 Business Data Processing I

Mr. Siedlik

The application of electronic data processing equipment to accounting systems. Basic principles of operation and programming. Selected case problems. Prerequisite: BUS 101.

Three credit hours

BUS 391 Business Data Processing II

Mr. Siedlik

Advanced Computer Programming. Implementation of the management by exception concept in data processing. Programming of elementary mathematical models for business problems. Prerequisite: BUS 390. (Not offered in 1972-73)

Three credit hours

BUS 395 Cooperative Education—Business Administration I

The student has the opportunity to relate academic knowledge to practical experience in the business world. The University makes arrangements with certain institutions and/or industries to employ students to fill specific jobs on a semester basis. The student's work is in a related field, and the work experience increases in difficulty and responsibility as the student progresses through the academic curriculum. The work experiences are approved in advance by the faculty. Open to Sophomores and Juniors in the School of Business and Economics with permission.

Five credit hours

BUS 396 Cooperative Education—Business Administration II

Open to Sophomores and Juniors in the School of Business and Economics with permission. Prerequisite: BUS 395.

Five credit hours

BUS 397 Cooperative Education—Business Administration III

Open to Juniors in the School of Business and Economics with permission. Prerequisites: BUS 295 and 396.

Five credit hours

BUS 410 Auditing

Mr. Findlay

A study of auditing philosophy and theory relative to the examination of financial and other data. Internal control; auditing standards and procedures; and the legal and ethical responsibilities of the independent auditor. Prerequisites: BUS 301 and BUS 302.

Three credit hours

BUS 421 Investment Analysis

Mr. Fitzpatrick

A study of the various methods of predicting the price action of stocks and the stock market. It is based upon technical and theoretical methods of forecasting. It is primarily concerned with the Point and Figure technique. Prerequisite: BUS 320.

Three credit hours

BUS 422 Topics in Investments

Mr. Fitzpatrick

An in depth study of each of the major topics investments. The course is based upon assigned readings, research, and discussion. Prerequisite: BUS 320.

Three credit hours

BUS 450 Business Management and Policy

Mr. Waters

Administrative practice at the higher levels of business management through case analysis and discussion. The course attempts to coordinate the background of business majors in the formulation and administration of sound business policy. Prerequisites: BUS 101 and BUS 102 or BUS 301, BUS 340, and BUS 360.

Three credit hours

BUS 490 Independent Readings and Research in Business

Staff

Selected topics in the various areas of accounting, finance, management, and marketing may be studied and researched on an independent basis. (Not for graduate credit.) Prerequisites: Senior standing and permission of the instructor.

Three credit hours

UNDERGRADUATE COURSES IN THE FOUR-YEAR PROGRAM IN ECONOMICS

ECON 101 Principles of Economics I

Staff

A theoretical analysis of the basic characteristics, institutions, and operational activities of a modern capitalistic economy which is involved in the transformation of scarce economic resources into the goods and services demanded by consumers. Topics discussed include inflation, unemployment, government monetary and fiscal policy to achieve full employment, and economic growth.

Three credit hours

ECON 102 Principles of Economics II

Mr. Bien, Mr. McKeil

A theoretical analysis of the firm and its role in the transformation of scarce economic resources into the goods and services demanded by consumers. Special attention is focused on the development of a market mechanism for the exchange of goods, services, and resources within a capitalistic economy. Topics discussed include consumer preferences and consumer behavior, production theory and production costs, the monopoly firm, and resource pricing.

Three credit hours

ECON 201 Current Economic Problems

Mr. Witherill

An in-depth study and application of economic principles to some of the outstanding economic issues of society. These include: the economics of pollution control; problems of the city — including transportation, metropolitan organization, and finance; and problems of labor — such as automation and unemployment. (Not for major credit in either Economics or Business Administration.) Prerequisite: ECON 101.

Three credit hours

ECON 301 Macroeconomic Analysis

Mr. Bay

A theoretical analysis of the basic forces that cause inflation, growth, and fluctuations in economic activity. The effects on employment and other factors are thoroughly treated. Stabilization policies are examined and evaluated. Prerequisites: ECON 101 and ECON 102.

Three credit hours

ECON 302 Microeconomic Analysis

Mr. Bien

Price, income, and employment theory as tools in the study of economics. Prerequisites: ECON 101 and ECON 102. (Offered in 1972-73 only by the Continuing Education Division.)

Three credit hours

ECON 310 Money and Banking

Mr. Bay

An extensive examination of the operation and performance of the American banking and financial system. Includes a study of monetary theory and policy. Debt management and present international monetary problems are discussed briefly. Prerequisites: ECON 101 and ECON 102.

Three credit hours

ECON 320 Labor Economics

Mr. Chandler

A discussion of labor in an industrial society serves as background for an examination of the origins and structure of the labor movement, the theories of the labor movement, the theories of wages and labor's income, the process of collective bargaining in industrial relations, and the development of labor legislation and social security laws. Prerequisites: ECON 101 and ECON 102. (Not offered in 1972-73)

Three credit hours

ECON 330 Social Control of Business

Mr. McMahon

Public policy toward business; government powers and private rights; government aids; regulation of competition and monopoly; public enterprise. Prerequisites: ECON 101 and ECON 102.

Three credit hours

ECON 340 History of Economic Thought

Mr. Durgin

A survey of the development of basic economic principles and theories from pre-industrial times to the present. Major emphasis is on the Classical School (Smith, Ricardo, and Malthus) and its critics, the development of the Austrian School, the synthesis of Neo-Classicism, and the emergence of Macro-economics. Prerequisite: ECON 101 and ECON 102. (Not offered in 1972-73)

Three credit hours

ECON 350 Comparative Economic Systems

Mr. Durgin

The structures and operating principles of the major contemporary economic systems are examined and compared. Prerequisite: ECON 101.

Three credit hours

ECON 351 Economic Systems of the Soviet Union

Mr. Durgin

A study of the development, institution, and structure of the Soviet economy. Emphasis on current theories and problems of central planning. Prerequisites: ECON 101 and ECON 102.

Three credit hours

ECON 360 Economic Development

Mr. Witherill

The theories and practices of interregional and international economic development. Special attention is given to development problems of emerging nations. Prerequisite: ECON 101.

Three credit hours

ECON 370 International Trade

Mr. Bien

The principles and practices of international trade and finance are thoroughly treated. Special emphasis is given to current trends in the international economy and to United States commercial policy. Prerequisites: ECON 101 and ECON 102.

Three credit hours

ECON 380 Public Finance and Fiscal Policy

Mr. McMahon

Public expenditure theory; principles of taxation; the federal budget and alternative budget policies; federal tax policy; fiscal policy for stabilization; federal debt. Prerequisites: ECON 101 and ECON 102.

Three credit hours

ECON 381 State and Local Government Finance

Mr. McMahon

Development of the federal system; fiscal performance; intergovernmental fiscal relations; state and local revenue systems; budgetary practices; state and local debt. Prerequisites: ECON 101 and ECON 102.

Three credit hours

ECON 490 Independent Readings and Research in Economics

Staff

Selected topics in the various areas of economics may be studied and researched on an independent basis. (Not for graduate credit.) Prerequisites: Senior standing and permission of the instructor.

Three credit hours

ECED 300 Economic Concepts and Resource Materials

Mr. Witherill

A study of simplification of economics concepts for presentation at elementary and secondary grade levels; also the study and preparation of various resource materials used in presenting economic concepts at these levels. Prerequisites: ECON 101, 102, and 350, plus junior standing in the School of Education.

Three credit hours

MASTER OF BUSINESS ADMINISTRATION**GRADUATE COURSES**

(Offered in 1972-73 only by the Continuing Education Division)

BUS 510 Operations Research

Mr. Siedlik

This course deals with the formulation and solution of optimization models for business decision making and economic resource allocation. Major emphasis on mathematical programming models, including linear programming fundamentals, simplex methods, duality theory, sensitivity analysis and parametric programming in postoptimality analysis, goal programming, linear programming under uncertainty, dynamic programming, allocation problems (assignment, transportation models, transportation simplex methods), network flows, integer programming, nonlinear programming, polygonal approximations, and gradient methods. Emphasis also on applications in accounting, finance, economics, marketing, and production management. Prerequisites: one course in statistics and one in calculus.

Three credit hours

BUS 520 Industrial Relations and Personnel Management

Mr. Chandler

A comprehensive investigation of the changing pattern of industrial relations in the United States. Major emphasis is on the human, social, and economic aspects of employer-employee relationships in both union and non-union settings. Provides an understanding of and appreciation for the crucial importance of the development of sound and flexible personnel policies by top management. Among the areas considered are: the changing nature of the labor force; wages, salaries, and fringe benefits; hours of work; and the impact of technological change on the work force. Prerequisite: one course in management or industrial relations.

Three credit hours

BUS 523 Collective Bargaining

Mr. Chandler

Discusses the major issues and problems in the collective bargaining process. Provides the business manager with the knowledge of sound collective bargaining attitudes and techniques necessary to achieve a responsible and mature attitude in his relationship with employee representatives. To this end, major focus is on the development of the union movement in this country, the changing nature of public policy toward collective bargaining, and the public responsibility of both unions and management. In addition, attention is given to the specific tools of collective bargaining, including strikes, lockouts, grievance procedures, arbitration, mediation, and bargaining strategies and techniques. Prerequisite: BUS 520.

Three credit hours

BUS 527 Human Relations in Industry

Mr. Waters

This course is designed to acquaint the student with the complex system of interdependent human, social, technical, and organizational forces which underlie the feelings, action, and relationships of people in organizations. Such subjects as leadership theory, organizational theory, individual and group behavior, and communication theory are presented. Prerequisite: Six hours in business subjects.

Three credit hours

BUS 530 Senior Executive Decision Making

Mr. Plowman

Administrative practice at the higher levels of business management, with major emphasis on long range executive planning of profit, sales, production, social goals and objectives, and of strategies and policies to achieve these objectives. Coordinates all executive activities, viewed as tools for use in developing administrative competence, in the formulation of business policies at the decision-making level. Prerequisite: BUS 510 or equivalent.

Three credit hours

BUS 533 Production Management

Staff

Decision models will be introduced with emphasis on statistical inference and decision theory, queuing theory, inventory theory, simulation, game theory, and Markovian

decision models. Application areas include Product R & D investment models, capacity investment decision models, facility design models, line-balancing models, system maintenance models, and production system operating models. Prerequisite: BUS 510. (Not offered in 1972-73) Three credit hours

BUS 537 Organizational Behavior in Business Staff

Emphasis on the importance of the influence process, motivational settings, and the structural backgrounds of organizational status and social relations. Analysis through case discussion and readings will develop a conceptual framework for improving individual decision-making ability with respect to individual, group, and intergroup problems. Prerequisite: One course in management. (Not offered in 1972-73) Three credit hours

BUS 540 Managerial Accounting Mr. Findlay

Development, analysis, and interpretation of accounting data and financial statements for managerial control, coordination, and decision-making; emphasis upon accounting as a tool of management. Topics are developed by utilization of case studies, problems, and reference material. Prerequisite: Six semester hours in accounting. Three credit hours

BUS 550 Managerial Economics Mr. Durgin

Application of economic analysis to the management of business enterprises. Designed to develop the student's ability to understand and use some of the important economic concepts, tools, and methods, relevant to operations and decisions within a business firm. Particular attention is given to the analysis of market demands, price policy, cost structures and production functions, capital budgeting, planning, and financing. Prerequisite: Nine semester hours in economics and a course in introductory calculus. Three credit hours

BUS 553 Business Cycles and Forecasting Mr. Bay

A theoretical analysis of the basic forces that determine fluctuations in the level of income. Stabilization policies are examined and evaluated. Basic forecasting techniques for the over-all economy and for certain major sectors are also explored. Prerequisites: six hours in economics and a course in introductory calculus. (Not offered in 1972-73) Three credit hours

BUS 560 Financial Management Mr. Fitzpatrick

A consideration of management decisions in the administration of corporate funds. Specific areas covered include capital budgeting, inventory control, working capital management, and the cost of capital. The side effects of taxation, depreciation methods, and earnings retention policies are noted. Current capital structure patterns are analyzed and evaluated. Prerequisite: One course in finance. Three credit hours

BUS 563 Investment Management Mr. Fitzpatrick

Emphasizes analysis and valuation procedures required to determine the investment quality of specific securities. Sets forth criteria for the formulation of a sound investment policy and the selection of investment media to implement it. Develops the techniques of continuing portfolio management and the task of periodic reappraisal. Prerequisites: One course in finance. Three credit hours

BUS 570 Marketing Management Mr. Waters

This course is organized to give the graduate student an opportunity to develop and test, through the case method, a number of marketing policies and strategies. Furthermore, the student will read and discuss the current literature in the field of marketing reviewing current marketing practices and predictions for the balance of the century. Prerequisite: one course in marketing. Three credit hours

BUS 573 Market Research and Analysis Mr. Manck

A study of the procedure and applications of market research. Such areas as the organization and operation of a research department, survey methods, experimentation, measurement of potential demand, and the analysis of distribution costs are considered. Emphasis on developing the student's ability to apply these and other techniques toward the solution of marketing problems. Prerequisites: BUS 570 and one course in statistics. Three credit hours

BUS 583 Business Logistics Mr. Plowman

Explores in depth the need for and means of centralization of decision-making to accomplish effective senior executive control of the chain of logistic activities from point of completion of manufacturing or other form utility creating process to delivery at the point of use or consumption. Interdisciplinary relationships with cybernetics, econometrics, operations research, computer-facilitated information analysis, purchasing (materials management) and the customer relations aspect of marketing (physical distribution) reviewed in their roles as logistics sub-systems or building blocks. Prerequisite: BUS 510. (Not offered in 1972-73) Three credit hours

School of Education

HARLAN A. PHILIPPI, Dean

Elementary Education Department: Professors Kerr, Neuberger; Associate Professors M. Costello (Chairman), O'Donnell, Peabody; Assistant Professors Allen, Fickett; Instructor Small.

Secondary Education Department: Professors Cobb (Chairman), Rhoades; Associate Professors Hackett, Soule; Assistant Professors Littlefield, Peterson, Walker; Instructor Bemis.

Foundations Department: Professor Southworth; Associate Professors Bowman, Chronister, Milbury, C. Smith, J. Whitten (Chairman); Assistant Professors Colucci, Davis, LaPointe, D. Moore.

Department of Industrial Education and Technology: Professors Berry, Mitchell (Chairman); Associate Professors Faulkner, Slocum; Assistant Professors Carter, Morrill, Warren; Instructor W. Moore.

Physical Education Department: Professors R. Costello, Sullivan (Chairman); Associate Professors Folsom, Goodwin, Hodgdon, Sturgeon; Assistant Professors Bouchard, Breton, Martin, Willard; Instructors Caliendo, Thomas, Raybould.

BACCALAUREATE PROGRAMS IN TEACHER EDUCATION

The School of Education concerns itself with direct preparation of school teachers and with providing professional courses for students in any college of the University who wish to meet teacher certification requirements.

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

Kindergarten-Primary

The kindergarten-Primary curriculum qualifies students to teach in kindergarten through grade eight, with emphasis on kindergarten through grade three. A detailed description of this program is provided on the following pages of this section of the catalog.

The Elementary curriculum qualifies graduates to teach grades kindergarten through eight with emphasis on grades four through six. A detailed description of this program is provided on the following pages of this section of the catalog.

Secondary (7-12)

The Secondary curriculum qualifies graduates to teach grades seven through twelve in the fields of biology, economics, English, French, general science, history, mathematics, theatre and speech, and social studies. Specific pre-professional courses which students in the Secondary Curriculum must include in their 30-hour General Education core, together with a listing of required and limited-elective courses in the Professional Education Curriculum for Secondary Majors, are provided on the following pages of this section of the catalog. The academic major, minor, and area-concentration programs are provided by the appropriate departments of the College of Liberal Arts, and descriptions of those programs will be found under the relevant departmental headings of that portion of the catalog devoted to the College of Liberal Arts.

Secondary Education students with majors or minors in English, History, or the Social Sciences area must achieve at least six credits with grades of B or better in such majors or minors. No grades of D will count toward fulfillment of the major or minor requirements. No required course may be repeated more than once.

Art

Graduates of the program are qualified to teach or supervise art in all grades of the public schools. All information about the Art Education curriculum is provided under the Art Department heading in the section of the catalog dealing with the College of Liberal Arts.

Music

The aim of the Music Education Program is to develop individual potential in the areas of musicianship and scholarship as well as to present the most recent trends in the field of music education. Upon satisfactory completion of the four-year program graduates receive a Bachelor of Science degree with a major in Music Education and are certified by the State of Maine to teach music in grades one through twelve. The program qualifies graduates to teach or supervise all phases of vocal and instrumental music. All information about the Music Education curriculum is provided under the Music Department heading in the section of the catalog dealing with the College of Liberal Arts.

Industrial Arts

The Industrial Arts curriculum prepares teachers for the teaching of industrial arts in elementary and secondary schools. It is the only college program in the State of Maine in this specialized field. A detailed description of this program is provided on the following pages of this section of the catalog.

Vocational Industrial Education

This is a part-time evening and summer program leading to a B.S. degree with a major in Vocational-Industrial Education or in Technology. A detailed description of this program is provided on the following pages of this section of the catalog.

COURSES IN PHYSICAL EDUCATION

The Physical Education Department provides the required program in physical education for all undergraduates, aged 29 or younger, at UMPG. It also offers an extensive program of intramural sports, together with a number of professional courses in physical education. Although a major in physical education is not currently available at UMPG, students who complete the listed program of professional courses will be adequately prepared to enter the coaching field upon graduation. Descriptions of the various courses offered by the Physical Education Department are printed in the final subsection of the portion of the catalog dealing with the School of Education.

PROGRAMS FOR ELEMENTARY MAJORS AND KINDERGARTEN-PRIMARY MAJORS

Both Elementary Majors and Kindergarten-Primary Majors are required to complete a basic core of courses which meet the General Education Requirements of UMPG and which are especially adapted to meet the general educational needs of teachers of children at the elementary or kindergarten-primary levels.

Core Requirements for Elementary and Kindergarten-Primary Majors

| | | <i>Credit hours</i> |
|---------------------------|---|---------------------|
| Basic Core: | | |
| Humanities | ENG 120 Introduction to Literature, or ENG 150 Topics in Literature, plus one course from foreign language, philosophy, or English. | 6 |
| Fine Arts | Any electives from Art, Music, or Theatre-Speech. | 6 |
| Science | PSCI 110 Elements of Physical Science, or equivalent. | 3 |
| Mathematics | MS 100 unless passed through proficiency test. Mathematics elective will be substituted if MS 100 is passed through proficiency. | 3 |
| Social Sciences | Electives from psychology, sociology, anthropology, political science, history, geography, economics. | 6 |
| Interdisciplinary Courses | (Not currently available; any academic courses acceptable.) | 6 |
| | | <hr/> 30 |
| Additions to core: | Physical Education 100 (2 semesters) | 1 |
| | MS 101 Elements of Mathematics II | 3 |
| | BIO 101 Biological Principles | 3 |
| | BIO 102 Biological Experiences | 1 |
| | | <hr/> 8 |

Professional Education for Kindergarten-Primary Majors

Each student in Kindergarten-Primary Education is required to complete a minimum of 36 credit hours in professional education, as follows:

| | | <i>Credit hours</i> |
|-------------------------------------|--|---------------------|
| EDU 200 | Studies in Foundations of Education (Replaces former courses in American School and Philosophy of Education) | 3 |
| EDU 300 | Primary Curriculum | 3 |
| EDU 302 | Kindergarten-Primary Reading | 3 |
| EDU 304 | Teaching Primary School Mathematics | 3 |
| EDU 308 | Science and Health for the Elementary Teacher | 3 |
| EDU 319 | Measurement and Evaluation | 3 |
| EDU 324 | Student Teaching | 6-12 |
| EDU 333 | Human Growth and Development | 3 |
| EDU 336 | Children's Literature | 3 |
| Electives in professional education | | 0-6 |
| | | <hr/> Total 36 |

The appropriate education courses must be completed before student teaching.

Additional Requirements for Kindergarten-Primary Majors

In both general and professional education there are additional or special requirements which will be indicated in each curriculum as it is set forth. The General Education Requirements and Physical Education Requirements for all undergraduates seeking a baccalaureate degree at UMPG are set forth on the inside front cover of this catalog. These requirements are covered by the Core Requirements for Elementary and Kindergarten-Primary Majors listed in the tabulation above.

All students in the Kindergarten-Primary Curriculum are considered Education Majors, even though they may earn an added academic major. In addition to the general and professional requirements, they are required to complete either two academic minors of 18 credit hours each or one academic major of 30 credit hours.

The academic major and minor programs for students of Kindergarten-Primary Education are described under the pertinent Department Headings

in the section of the catalog devoted to the College of Liberal Arts. Appropriate courses selected to meet the requirements of the UMPG General Education Requirements, described on the inside front cover of the catalog, may be counted toward either the two academic minors or the academic major selected by a student in the Kindergarten-Primary Curriculum.

A student in the Kindergarten-Primary Program may obtain an academic major in English, History, Mathematics, the Social Science Area program of the Geography-Anthropology Department, or the Science Area program (including both physical and biological sciences) described in the section of the catalog dealing with Physical Sciences and Engineering.

A student in the Kindergarten-Primary Program may obtain academic minors in English, History, Mathematics, Geography, the Social Science Area program of the Geography-Anthropology Department, and the Science Area program (including both physical and biological sciences) of the Physical Science and Engineering Department.

Professional Education for Elementary Majors

Each student in Elementary Education is required to complete a minimum of 36 credit hours in professional education, as follows:

| | <i>Credit hours</i> |
|--|---------------------|
| EDU 200 Studies in Foundations of Education (Replaces former courses in American School and Philosophy of Education) | 3 |
| EDU 301 Elementary Curriculum: Methods and Materials | 3 |
| EDU 303 Elementary Reading | 3 |
| EDU 305 Teaching Elementary School Mathematics | 3 |
| EDU 308 Science and Health for the Elementary Teacher | 3 |
| EDU 319 Measurement and Evaluation | 3 |
| EDU 324 Student Teaching | 6-12 |
| EDU 333 Human Growth and Development | 3 |
| EDU 336 Children's Literature | 3 |
| Electives in professional education | 0-6 |
| Total | 36 |

The appropriate education courses must be completed before student teaching.

Additional Requirements for Elementary Majors

In both general and professional education there are additional or special requirements which will be indicated in each curriculum as it is set forth. The General Education Requirements and Physical Education Requirements for all undergraduates seeking a baccalaureate degree at UMPG are set forth on the inside front cover of this catalog. These requirements are covered by the Core Requirements for Elementary and Kindergarten-Primary Majors listed above.

All students in the Elementary Curriculum are considered Education Majors, even though they may earn an added academic major. In addition to the general and professional requirements, they are required to complete either two academic minors of 18 credit hours each or one academic major of 30 credit hours.

The academic major and minor programs for students of Elementary Education are described under the pertinent Department Headings in the section of the catalog devoted to the College of Liberal Arts. Appropriate courses selected to meet the requirements of the UMPG General Education Requirements, described on the inside front cover of the catalog, may be counted

toward either the two academic minors or the academic major selected by a student in the Elementary Curriculum.

A student in the Elementary Curriculum may obtain an academic major in English, History, Mathematics, the Social Science Area program of the Geography-Anthropology Department, or the Science Area program (including both physical and biological sciences) described in the section of the catalog dealing with Physical Sciences and Engineering.

A student in the Elementary Curriculum may obtain academic minors in English, History, Mathematics, Geography, the Social Science Area program of the Geography-Anthropology Department, and the Science Area program (including both physical and biological sciences) of the Physical Science and Engineering Department.

PROGRAMS IN SECONDARY EDUCATION

The secondary curriculum qualifies graduates to teach grades seven through twelve in the fields of biology, economics, English, French, general science, history, mathematics, theatre and speech, and social studies. The academic major, minor, and area-concentration programs are provided by the appropriate departments of the College of Liberal Arts, and descriptions of those programs will be found under the relevant departmental headings of that portion of the catalog devoted to the College of Liberal Arts. The Social Science Area program is described in the subsection dealing with the Geography-Anthropology Department, and the Science Area program (including both physical and biological sciences) is described in the section dealing with Physical Sciences and Engineering.

Students in the School of Education may also obtain an academic major or minor in Economics, as described in this catalog in the section dealing with the School of Business and Economics.

General Education Requirements for Secondary Majors

As part of the thirty-hour general education core required of all students, and described on the inside front cover of this catalog, students of Secondary Education must meet the following specific pre-professional requirements:

- A. A three-credit course in either ENG 120 Introduction to Literature or ENG 150 Topics in Literature.
- B. Three credit-hours in psychology.

Departmental courses in the student's major area may not be applied towards fulfillment of the general education core requirements.

Professional Education Curriculum for Secondary Majors

Required Courses

| | | |
|---------|---|----------------|
| EDU 200 | Studies in Foundations of Education | Semester hours |
| EDU 333 | Human Growth and Development | 3 |
| | An appropriate course in Methods of Teaching in Secondary Education | 3 |
| EDU 324 | Student Teaching (One quarter required) | 6 |

Limited Electives

| | | |
|---------|--|-----|
| EDU 324 | Student Teaching (One additional quarter) | 6 |
| | Related Professional Field Lab Experience | 3-6 |
| EDU 314 | Secondary Curriculum | 3 |
| EDU 310 | Preparation of Classroom Instructional Materials | 3 |

A student must receive a minimum of 18 credit hours in Professional Secondary Education, including student teaching.

COURSES IN EDUCATION

EDU 101 The Role of Education in Social Change

Mr. Peppe

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

Three credit hours

EDU 150 Preprofessional Field Experiences

Staff

An exploratory introduction to education through direct involvement with youth in public schools or educative agencies. At least two hours per week of field work, including seminars as necessary, in the school setting. An elective primarily for freshmen and sophomores with enrollment limited according to transportation and available opportunities. Transportation not provided. (Pass-Fail only.)

Two credit hours

NOTE: A student, with permission, may continue this course for several subsequent semesters under course code numbers EDU 151, 152, 153, and 154.

EDU 200 Studies in Educational Foundations

Staff

This course offers a multi-disciplinary and open-ended approach to the study of education. Topics and resource units (social, historical, and philosophical in perspective) have been selected and prepared to allow students the freedom to explore, both independently and in group settings, educational issues, questions, and concerns. Students enrolled in this course will be placed in a learning environment designed (1) to elicit critical thinking, (2) to examine assumptions and beliefs regarding education, and (3) to test personal commitment to education. Open to sophomores and others who have not met requirements of an introductory course in Foundations, such as the previously offered course in American School. No prerequisites.

Three credit hours

EDU 300 Primary Curriculum: Methods and Materials

Miss Peabody

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

Three credit hours

EDU 301 Elementary Curriculum: Methods and Materials

Mrs. Costello

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

Three credit hours

EDU 302 Primary Reading

Mr. O'Donnell

This course introduces and analyzes the basic components of the developmental primary reading program. Students are encouraged to formulate instructional goals which must be considered in planning balanced reading activities. The topics include: individual differences in reading readiness; word perception and vocabulary development; reading interests; the directed reading-thinking-activity; oral reading; diversifying comprehension requirements; and diagnosis of reading competence. Special attention given to research and innovations with emphasis on the applied use of concepts, practices, and materials. Includes preprofessional experiences.

Three credit hours

EDU 303 Elementary Reading

Mr. Fickett, Mr. Small

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

Three credit hours

EDU 304 Teaching Primary School Mathematics

Staff

Techniques for teaching mathematics in primary grades. Includes preparation and laboratory use of materials, analysis of current textbooks, and exposure to experimental programs. Includes preprofessional experiences.

Three credit hours

EDU 305 Teaching Elementary School Mathematics

Mr. Allen

Developing techniques for teaching mathematics to intermediate grade pupils. Major consideration will be given to the philosophy of teaching mathematics, comparing various curricula of the subject, developing organized lessons, using techniques for evaluating the aims of the lessons, and exploring ways to enrich the mathematics curriculum. Field experiences in the public schools will be an integral part of the course. Prerequisite: MS 101.

Three credit hours

EDU 306 Secondary Reading

This course places emphasis upon developmental, corrective, adaptive, and remedial reading. Methods of teaching reading in the secondary school and reading instruction as it applies to the content areas.

Three credit hours

Mr. Walker

EDU 307 Science and Health for the Primary Teacher

Problems and methods of teaching science and health. Current practices and teaching materials are emphasized and evaluated. This course gives the student an opportunity to design, prepare, teach, and evaluate his work at the K-3 level.

Three credit hours

Mrs. Kerr

EDU 308 Science and Health for the Elementary Teacher

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

Three credit hours

Mrs. Kerr

EDU 309 Selection and Utilization of Education Media

A course designed to orient the pre-service and the in-service teacher to current trends in instructional media. Instruction will be directed to proper selection and utilization of the latest available equipment and materials. There will be provision for associated laboratory work. Class limited to 30.

Three credit hours

Staff

EDU 310 Preparation of Classroom Instructional Materials

A lecture-laboratory series which involves students in the creation of instructional materials. Techniques include the dry mounting of flat pictorial materials, cloth backing of pictorial materials, professional quality lettering, rudimentary photography and processing (including use of the darkroom), and the production by several techniques of transparent projectuals. Classes limited to 18. No prerequisite. Lab fee \$7.50.

Three credit hours

Mr. Milbury, Mr. Davis

EDU 311 Advanced Production of Audio-Visual Materials

Further sophistication of insight and refinement of skills in the local production of instructional materials. Prerequisite: Successful completion of EDU 310. Limited to twelve students. Lab fee \$7.50.

Three credit hours

Mr. Davis

EDU 312 Teaching Language Arts in Elementary School

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

Three credit hours

Mrs. Costello

EDU 313 Maine School Law

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

Three credit hours

Mr. Cobb

EDU 314 Secondary Curriculum

Secondary Curriculum will be an effort to model a teaching-learning process that emphasizes that each person learns only what that individual needs and wants to know. Thus the student will be presented with a number of behaviors that might be perceived as appropriate for a teacher and permitted to select those objectives and methods of achieving these objectives that most closely meet individualized needs. The student will consider philosophy, objectives, motivation, learning theory, evaluation, methods, school administration and organization, school law, et al.

Three credit hours

Mr. Hackett, Mr. Cobb

EDU 315 Teaching English in the Secondary School

A methods course for English majors preparing to enter secondary teaching, Grades 7-12. Students are familiarized with current developments in the "new English" as evidenced by recent theory and practice. Practical applications include special projects in the teaching of language, literature, composition, and reading. Students are given opportunities for first-hand observation of secondary English classrooms in the greater Portland area; workshops and conferences with visiting junior and senior high school teachers; tutorial assignments as University "Writing Laboratory" aides; and mastery of basic skills in the use of audio-visual equipment before actual classes.

Three credit hours

Mr. Lyons

EDU 317 Teaching Social Studies in the Secondary School

The course deals with the role of the social studies teacher as an agent of change, prompting sensitivity, procedure, method, and concern. It presents new concepts, methods, and materials in the professional dimensions of social studies instruction.

Three credit hours

Mr. Whitten

EDU 318 Teaching Science in the Secondary School

History of science education, methods and materials in the teaching of science, curricular trends, emphasis on behavioral objectives. May include student demonstrations, opportunity

Mrs. Kerr, Mr. Rhoades

for observation and participation in secondary schools. Students concentrating in biology are strongly urged to take EDU 330, Teaching Biology in the Secondary School, in place of this course. Prerequisite: junior or senior standing. Three credit hours

EDU 319 Measurement and Evaluation

Staff

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

Three credit hours

EDU 320 Kindergarten Development

Mrs. Chaplin, Mrs. Marsh

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

Two credit hours

EDU 321 Atypical Reading Patterns

Mr. Fickett

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

Three credit hours

EDU 322 Remedial Reading

Miss Peabody

An empirical approach, relating class discussions to clinical observation. Methods by which the teacher copes with individual difficulties are explored. Testing and diagnostic work are studied and applied to subject-groups.

Three credit hours

EDU 323 Independent Study in Education

Mr. Rhoades, Staff

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

Credit hours to be arranged

EDU 324 Student Teaching

Staff

Full-time student teaching during the senior year is provided under supervision in off-campus situations for all who meet prerequisites. Students are assigned to Elementary or Secondary schools or other educative agencies for one half semester. It is recommended that all Elementary students pursue two quarters consecutively. For the 1972-73 school year, Secondary Education students on the Gorham Campus will be permitted to take two quarters while Portland students will take one. During the other quarter, students usually enroll in a full time program of courses. This provides opportunity to teach according to choice in a different situation each quarter. Opportunities include Kindergarten-Primary, Elementary, Secondary, Art, Music, Industrial Arts, Theatre and Speech, and Trade and Industry. Prerequisites vary according to major field of study. See curriculum listings in the catalog.

Six or twelve credit hours

EDU 325 Seminar in Primary Education

Miss Peabody

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

Two credit hours

EDU 326 Seminar in Elementary Education

Mrs. Costello

A study of issues in elementary education: school law; professional and ethical procedures; organization of student teaching; and teacher relationships with schools, community, and state. Visiting lecturers participate. Prerequisite: enrollment in EDU 324 Student Teaching.

Two credit hours

EDU 327 Seminar in Secondary Education

Mr. Cobb

A group discussion concerned with student teachers' questions and answers.

Two credit hours

EDU 330 Teaching Biology in the Secondary School

Mr. Dorsey

A course designed primarily for students preparing to teach biology in the secondary school. Emphasis is placed on advances in the secondary biology curricula, notably the Biological Sciences Curriculum Study approaches. A major portion of the course work is devoted to the laboratory exercises and techniques which typify the investigative approach of these curricula. Simulated situations in the teaching of biology will be employed.

Three credit hours

EDU 336 Children's Literature

Staff

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

Three credit hours

EDU 350 Modern Philosophies of Education

Staff

This course is designed to examine the current patterns of thought that ground and guide contemporary theory, policy, and practice in the enterprise of education. An emphasis will be placed on philosophy as an activity through which one critically examines the merits of alternative patterns of educational thought and seeks to form a personal philosophy of education. Prerequisites: Open to Juniors and Seniors who have completed EDU 200 or equivalent, or a course in general Philosophy.

Three credit hours

EDU 351 Historical Foundations of American Education

Staff

This course examines the development of public education in the United States and traces selected reforms that have influenced and altered the nature, purposes, and roles of this institution. Offered during the first and third quarters of the academic year. Prerequisites: Open to Juniors and Seniors who have completed EDU 200 or equivalent.

Three credit hours

EDU 399 Field Experience — Human Service Professions

Staff

This field experience course is designed to provide the teacher candidate with experiences which will increase the candidate's awareness and understanding of the larger community, of other human service systems involved in community dynamics, and the role of the school in its relationships with other social systems, operating together as socializing agencies in the lives of children and adolescents. Each student will serve an internship at one of the cooperating community agencies, working closely with a qualified professional. It is expected that the student will become significantly involved with individual clients (served by the agency) to gain real insight into the life styles and needs. In addition, a biweekly seminar will focus on observations, concepts and problems documented in the student's weekly diaries.

Three credit hours

EDPY 331 Group Dynamics

Mr. Southworth

A study of the nature of group process and one's own functioning in a group. Problems of leadership, roles filled, and techniques will be integral parts of the course. The developing awareness of one's self in relation to others in a group will be of importance. Specific techniques will include reading, leadership of other groups, and participation in a seminar planned to aid in the exploration of leadership styles of self and others. Open to upper class undergraduates and graduate students.

Three credit hours

EDPY 332 Psychology of the Self

Mr. Southworth

An exploration into the development of the self, primarily as an issue of personal growth. Topics might include alienation, loneliness, and verbal-nonverbal communication. Learning techniques center around extensive reading, common class experiences, and intensive small group interaction.

Three credit hours

EDPY 333 Human Growth and Development

Mr. Bowman

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

Three credit hours

EDPY 335 Educational Psychology

Mr. Southworth

Basic principles, techniques, and research in Educational Psychology. Special consideration given to the learning process, perception, motivation, individual differences, and measurement, with reference to the facilitation of effective teaching and learning. A one-semester course open to upperclass students.

Three credit hours

SEM 306 Human Reproduction, Contraception, and Family Planning

Mr. Mazer

Topics to be presented during the sixteen class sessions include human reproductive anatomy and physiology, sexual arousal, fertility, types and functions of contraceptive devices, homosexuality, pregnancy, conception, masturbation, family planning, and reproductive senility. The aims of this course will be to provide a solid foundation of factual knowledge and then to use this foundation to encourage class discussion of significant sexual problems of current concern.

Three credit hours

Industrial Arts

Purposes

The undergraduate curriculum in Industrial Arts has as its central purpose the preparation of certified teachers who are able to organize, manage, and teach a program of industrial arts in the elementary and secondary schools of the State.

A secondary purpose of the program is to provide non-teaching majors an opportunity to develop general technical proficiencies along with a basic knowledge of business administration, leading to middle management positions in industry.

A B.S. degree with a major in Industrial Arts or in Technology will be granted upon successful completion of the following requirements:

REQUIRED OF BOTH TEACHER EDUCATION MAJORS AND TECHNOLOGY MAJORS

General Education Courses: 53 credit hours total

| | |
|--|------------|
| Humanities | 9 credits |
| Fine and Applied Arts | 6 credits |
| Mathematics and Science | 12 credits |
| Social Sciences and Psychology | 9 credits |
| Interdisciplinary (Not currently available; any academic courses acceptable.) | 6 credits |
| Modern Industry (IA 270) | 3 credits |
| Physical Education | 2 credits |
| Electives (General) | 6 credits |

Core Requirements in Technical Education: 27 credit hours total

(Each course listed carries 3 credits.)

| |
|---------------------------------------|
| IA 100 Manufacturing and Construction |
| IA 101 Energy and Transportation |
| IA 130 Graphic Communication |
| IA 210 Electronics Technology |
| IA 220 Power Technology |
| IA 231 Technical Graphics |
| IA 241 Graphic Arts Technology |
| IA 250 Metals Technology |
| IA 260 Woods Technology |

REQUIRED OF TEACHER EDUCATION MAJORS

Professional Education Courses: 23 credit hours total

| | |
|--|------------|
| EDU 150-4 Preprofessional Field Experiences | 2 credits |
| EDU 335 Educational Psychology | 3 credits |
| IAED 380-381 Curriculum Methods and Materials | 6 credits |
| EDU 324 Student Teaching and Seminar | 12 credits |

Teaching Area Options

Teacher Education majors have four teaching area options, one of which must be selected prior to entrance to the junior year. Each student should plan the program with the adviser. The teaching areas are I—Laboratory of Industries, II—Energy and Transportation, III—Graphic Communication, IV—Manufacturing and Construction. The following tabulation indicates the number of credit hours a student should take in each of the teaching areas, as selected from the list of technical electives below.

| | II | III | IV |
|------------------------------------|----|-----|----|
| I. Laboratory of Industries | 6 | 6 | 9 |
| II. Energy and Transportation | 12 | 3 | 6 |
| III. Graphic Communication | 3 | 12 | 6 |
| IV. Manufacturing and Construction | 3 | 6 | 12 |

TECHNICAL ELECTIVES FOR BOTH TEACHER EDUCATION MAJORS AND TECHNOLOGY MAJORS

II—Energy and Transportation

- IA 311 Communications Electronics
- IA 312 Computer Technology
- IA 313 Electrical Construction
- IA 321 Automotive Systems
- IA 322 Automotive Diagnosis and Tuneup
- IA 413 Instrumentation
- IA 414 Digital Electronics
- IA 423 Fluid Power
- IA 424 Fluid Power Systems

III—Graphic Communication

- IA 332 Architectural Drawing and Design
- IA 333 Descriptive Geometry
- IA 342 Photo-Offset Lithography
- IA 343 Communications Design
- IA 434 Industrial Production Illustration
- IA 444 Photographic Reproduction
- IA 445 Color Reproduction Theory

IV—Manufacturing and Construction

- IA 351 Machining and Fabrication
- IA 352 Fabrication and Forming
- IA 361 Custom Production in Wood
- IA 362 Residential Construction
- IA 363 Wood Science
- IA 370 Crafts Technology
- IA 371 Plastics Technology
- IA 452 Metallurgy and Metrology
- IA 472 Materials Testings (Metals/Wood)
- IA 271 Industrial Arts for the Elementary School
- IA 490 Special Problems in Industrial Arts

REQUIRED OF TECHNOLOGY MAJORS

Additional Course in General Education: 3 credit hours

EDU 200 Studies in Foundations of Education

Business Administration and Economics: Elect 18 credit hours

(Electives from the following 3 credit courses)

| | |
|-----------------------|----------------------|
| Economics | Cost Accounting |
| Accounting | Finance |
| Industrial Management | Industrial Relations |
| Marketing | Human Relations |

Technical Electives: 24 credits from the groups above.

Minimum of two courses in each group

Special Problems: 2 credit hours

INDUSTRIAL ARTS CURRICULUM

Freshman Year

| | Credit Hours |
|---|--------------|
| English (Elective) | 6 |
| Mathematics (Elective) | 6 |
| Science (Elective) | 6 |
| Physical Education | 2 |
| EDU 200 Studies in Foundations of Education | 3 |
| IA 130 Graphic Communication | 3 |
| IA 100 Manufacturing and Construction | 3 |
| IA 101 Energy and Transportation | 3 |
| IA 231 Technical Graphics | 3 |
| Sophomore Year | |
| PSY 101 General Psychology | 3 |
| Fine Arts (Elective) | 6 |
| Literature (Elective) | 3 |
| Scogis (Elective) | 3 |
| IA 210 Electronic Technology | 3 |
| IA 220 Power Technology | 3 |
| IA 241 Graphic Arts Technology | 3 |
| IA 250 Metals Technology | 3 |
| IA 260 Wood Technology | 3 |
| IA 270 Modern Industry | 3 |

Junior Year

| | | |
|--------------|---------------------------------------|----|
| | (Teacher Education Majors) | |
| | Social Science (Electives) | 6 |
| | Scogis (Elective) | 3 |
| EDU 335 | Educational Psychology | 3 |
| IAED 380-381 | Curriculum Methods and Materials | 6 |
| | Industrial Arts Technical (Electives) | 12 |
| | (Technology Majors) | |
| | Social Science (Electives) | 6 |
| | Scogis (Elective) | 3 |
| | Economics (Elective) | 3 |
| | Accounting (Elective) | 3 |
| | Finance (Elective) | 3 |
| | Industrial Arts Technical (Electives) | 12 |

Senior Year

| | | |
|---------|---------------------------------------|----|
| | (Teacher Education Majors) | |
| EDU 324 | Student Teaching and Seminar | 12 |
| | General Education (Electives) | 6 |
| | Industrial Arts Technical (Electives) | 9 |
| | Special Problems (Elective) | 2 |
| | (Technology Majors) | |
| | Industrial Management (Elective) | 3 |
| | Marketing (Elective) | 3 |
| | Industrial Relations (Elective) | 3 |
| | Industrial Arts Technical (Electives) | 12 |
| | Special Problems (Elective) | 2 |
| | General Education (Elective) | 6 |

Clinical Training in Manual Arts Therapy

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

COURSES IN INDUSTRIAL ARTS

ENERGY AND TRANSPORTATION

IA 101 Energy and Transportation

Staff

Concepts of electrical and mechanical energy are examined in relation to their application in the home, industry, and transportation. Laboratory experiences designed to facilitate the study of energy sources and transportation devices are included. Required of all first-year students.

Three credit hours

IA 210 Electronics Technology

Mr. Slocum

Review of basic network theory; AC networks; theory and use of electrical measuring instruments; semiconductors, diodes, and transistors; basic communication circuits.

IA 220 Power Technology

Mr. Carter

A study of those industries concerned with power; its sources, generation, transmission, and control. Applications of power in the fields of manufacturing construction and transportation are considered and developed. Emphasis is placed on thermal engines — theory, construction, operation, maintenance, and service.

Three credit hours

IA 311 Communication Electronics

Mr. Slocum

Detailed study of common communication circuits, including phonographs, AM-FM radio, television and radar; integrated circuit technology and application.

Three credit hours

IA 312 Computer Technology

Mr. Slocum

Basic programming and use of University computing facilities; principles of logic design of digital equipment; social, industrial, and psychological consequences of the computer revolution. Open to all students.

Three credit hours

IA 313 Electrical Construction

Modern electrical construction and wiring practices utilizing the National Electrical Code. Motors, controllers, and residential wiring will be stressed. Field study of industrial electrical construction and maintenance procedures, as well as commercial and new residential buildings. Three credit hours

Mr. Slocum

IA 321 Automotive Systems

The study of the automobile and its systems. Theory, design and construction, operation, maintenance, testing, and service included. Utilization of prime movers and devices common to all fields of transportation explored and considered. Prerequisite: IA 220. Three credit hours

Mr. Carter

IA 322 Automotive Diagnosis and Tuneup

The study of automotive systems. Analysis and diagnosis. Tuneup and servicing included. Opportunities for independent research and problem solving provided. Prerequisite: IA 321 or permission of instructor. Three credit hours

Mr. Carter

IA 413 Instrumentation

Introduction to the study of sensing devices and instruments necessary to observe and control both manufacturing processes and the performance of mechanical and electrical machinery. Emphasis on pressure in liquids, atmospheric pressure, temperature, indicating instruments, mechanical and electrical transducers, potentiometric devices, and other monitoring instruments. Prerequisite: IA 210. Three credit hours

Mr. Slocum

IA 414 Digital Electronics

Semiconductor junction theory; special devices such as SCR's, FET's; digital electronics, including switching theory and applications. Permission of instructor. Three credit hours

Mr. Slocum

IA 423 Fluid Power

A study of fluids at work. Investigation of the theory and application of hydraulics and pneumatics in mechanics and industry. Design, construction, and maintenance of fluid power devices and systems. Three credit hours

Mr. Carter

IA 424 Fluid Power Systems

Application of fluid power and fluidic systems to manufacturing and construction industries. Prerequisite: IA 423. Three credit hours

Mr. Carter

GRAPHIC COMMUNICATION

IA 130 Graphic Communication

Introduction to the concepts of effective industrial communications. Translating ideas and images through understanding and applying the elements of graphic design, shape and dimension, layout and image assembly, and reproduction techniques. Three credit hours

Mr. Faulkner, Mr. Morrill

IA 231 Technical Graphics

Concepts of spatial relationships and visualizations with related techniques. Basic skill development and understanding taught through freehand illustrations as well as conventional instruments and devices. Multi-view projections, pictorial techniques, primary and secondary auxiliaries, detail and assembly working drawings, and reproduction techniques. Contemporary industrial practices and processes. Three credit hours

Mr. Faulkner

IA 241 Graphic Arts Technology

A study of the common reproduction systems utilized in the graphic arts industries and technology. Designing, composing, reproduction, assembling, and finishing of printed materials utilizing conventional reproduction techniques. Emphasis on letterpress, offset lithography, and screen printing with related experiences in rubber stamp making, block printing, embossing, and photo enlarging. Lecture and lab, three credit hours

Mr. Morrill

IA 332 Architectural Drawing and Design

Basic architectural design and drawing as related to residential and light construction. A detailed set of plans for a single family home will be executed. Construction techniques, environmental considerations, building materials, specifications, costs and financing, codes and zoning, schedules, and architectural models. Prerequisite: IA 231 or equivalent. Three credit hours

Mr. Faulkner

IA 333 Descriptive Geometry

Analysis of the spatial relationship of points, lines, planes, and solids with orthographic and pictorial practice. Vector analysis, nomographs, charts, graphs, graphical arithmetic, truss systems with application. Prerequisite: IA 231 or permission of instructor. Three credit hours

Mr. Faulkner

IA 342 Photo-Offset Lithography

A study of those industries utilizing photo-offset lithograph with emphasis upon camera work, stripping, platemaking, and presswork. Photographic conversion of line and halftone copy, photo-screen stencils, and finishing procedures are also included. Three credit hours

Mr. Morrill

IA 343 Communications Design

An introduction to the principles of layout and design in preparing camera copy for lithographic reproduction. Emphasis on design elements and fundamentals, manuscript and illustration preparation, graphic and photographic techniques, and production specifications.

Mr. Morrill

Three credit hours

IA 434 Industrial Production Illustration

Principles and techniques employed by contemporary industry to graphically describe industrial products, technical concepts, and service information. The media range will include chalk, ink, pencil, charcoal, water color, tempera, pressure sensitive transfer symbols, and various methods of reproduction. Engineering and architectural problems. Prerequisite: IA 231 or permission of instructor.

Mr. Faulkner

Three credit hours

IA 435 Systems Analysis and Design

Research applied to solving basic engineering problems. Contemporary systems of analysis and design. Economic factors, resource utilization, planning, design, model construction, follow-up studies and evaluation techniques applied to specific practical problems. Prerequisite: IA 333 and permission of instructor.

Mr. Faulkner

Three credit hours

IA 444 Photographic Reproduction

Photographic concepts, processes, and techniques utilized in graphic arts reproduction. Experience in contact printing, continuous tone enlarging, use of filters, and color separations. Prerequisite: IA 342.

Mr. Morrill

Three credit hours

IA 445 Color Reproduction Theory

Advanced study in the additive and subtractive theories of color reproduction. Experiences in photographic separation and offset press printing of color originals. Emphasis on understanding physiological and psychological responses to color. Prerequisite: IA 444.

Mr. Morrill

Three credit hours

MANUFACTURING AND CONSTRUCTION

IA 100 Manufacturing and Construction

Basic concepts and common functions involved in both the production of manufactured goods and building construction are studied. Custom and line-production activities and model structures are utilized. Graphic communication concepts are included. Required of all first-year students.

Staff

Three credit hours

IA 250 Metals Technology

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

Mr. Moore

Three credit hours

IA 260 Wood Technology

Structure of wood and its relation to moisture, strength properties, and working qualities. Wood-based materials: veneer, plywood, particleboard, hardboard will be considered. Basic skills in hand and machine processes will be developed. Emphasis on research and experimentation and basic processes in the wood manufacturing industry. Safety practices.

Mr. Warren

Three credit hours

IA 351 Machining and Fabrication

A study of metal industries concerned with electric and gas welding and machining techniques. Emphasis on process engineering. Individual and group problems. Laboratory and maintenance practices. Prerequisite: IA 250.

Mr. Moore

Three credit hours

IA 352 Fabrication and Forming

Concepts, principles, and activities in TIG welding, sheet metal fabrication, and casting techniques as they relate to the manufacturing and construction industries. Consideration is also given to plumbing. Group and individual problems and activities. Prerequisite: IA 351.

Mr. Moore

Three credit hours

IA 361 Custom Production in Wood

Production and wood manufacturing problems including jigs, fixtures, special machine operations, and advanced finishing techniques. General maintenance procedures on production equipment. Group and individual research assignments and related technical problems. Prerequisite: IA 260.

Mr. Warren

Three credit hours

IA 362 Residential Construction

A study of the residential construction industries including construction principles; layout, foundation, framing, exterior covering, and finish. Related areas of services, plot planning, earth-moving principles considered in research activities. Group and individual problems. Prerequisite: IA 260 or permission of instructor.

Mr. Warren

Three credit hours

IA 363 Wood Science

Wood anatomy and identification experiences leading into a study of the properties of wood, wood-liquid relations, bonding and finishing of wood, and machining as they relate to the manufacturing processes. Prerequisite: IA 260 or permission of instructor.

Mr. Warren

Three credit hours

IA 370 Crafts Technology

Design and manufacture of products utilizing ceramics, leather, plastics, art metals, and other craft materials. Examination of artistic crafts for leisure-time activities and for adult programs. Individual and group research and problem solving.

Staff

Three credit hours

IA 371 Plastics Technology

Pattern and mold design and construction; thermo-forming, injection-molding, reinforced plastics, blow molding, foam and plastisol forming. Theory and application of thermoplastic and thermo-set principles. Prerequisites: IA 250 or IA 260.

Staff

Three credit hours

IA 452 Metallurgy and Metrology

The technology of metallurgy and metrology. Heat treatment, powdered metals, machining and inspection of metal parts. Individual and group activity. Prerequisite: IA 150.

Mr. Moore

Three credit hours

IA 472 Materials Testing

Industrial techniques involved in the analysis of the physical properties of materials and their utilization in the manufacturing and construction industries. Emphasis on research and experimentation. Individual and team activities. Prerequisites: IA 250 or IA 260.

Mr. Warren

Three credit hours

INDUSTRIAL ARTS EDUCATION**IA 270 Modern Industry**

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

Staff

Three credit hours

IA 271 Industrial Arts for the Elementary School

Career education role of industrial arts at the elementary level is explored. Activities and projects, correlated with unit teaching, along with basic concepts and simple technical skills required for their implementation are considered. Recommended for non-majors.

Staff

Three credit hours

IA 490 Special Problems in Industrial Arts

Provides upper level students an opportunity to pursue independently a topic, project, or experiment of interest.

Staff

Students will prepare a contract or proposal for study to be conducted and, upon completion, submit findings in a scholarly report or other evidence of merit. Permission of instructor. Technical elective may be substituted.

Two credit hours

IAED 380 Curriculum Methods and Materials

Evaluation of contemporary curriculums in industrial arts. Development of long and short range plans, with emphasis on unit teaching and performance-based objectives. Task analyses for teaching skills and concept development. Instructional media preparation and utilization. Organization for individual or group instruction. Required prior and upon application to student teaching. Prerequisite: EDU 335.

Mr. Mitchell

Three credit hours

IAED 381 Curriculum Methods and Materials

Utilization of prepared plans for micro- and participation-teaching. Audio and video tape presentations and critiques. Introduction to criterion referenced evaluation techniques. Safety principles and classroom control stressed. Basic organization and administration procedures for implementing a modern program of industrial arts. Orientation to student teaching. Prerequisite: IAED 380.

Mr. Mitchell

Three credit hours

Vocational Industrial Education

A part-time Evening and Summer program designed to:

- a) prepare instructors for the teaching of vocational-industrial and/or technical subjects in the high schools and post-secondary schools of Maine. Candidates must be eligible for vocational teaching certification.

- b) provide non-teaching majors an opportunity to pursue a collegiate program leading to a baccalaureate degree which recognizes trade or technical competency and provides knowledge of business and industry leading to supervision, technician, or middle management positions.

A B.S. degree with a major in Vocational Industrial Education or in Technology will be granted upon successful completion of the following requirements:

Curriculum Requirements

One hundred and twenty (120) semester hours of credit are required for the bachelor's degree. A minimum of one year, or 30 semester hours, **exclusive of work trade experience credits**, must be earned at this institution.

| | |
|--|-----------------|
| A. General Education | 45 credit hours |
| Humanities | 6 |
| Fine and Applied Arts | 6 |
| Science and Mathematics | 15 |
| Social Sciences | 6 |
| PSY 101 General Psychology | 3 |
| IVE 360 Modern Industry | 3 |
| Interdisciplinary Courses (Not currently available; any academic courses acceptable.) | 6 |
| B. Professional Education (Teaching Majors Only)..... | 27 credit hours |
| IVE 305 Curriculum Development in Vocational Education | 3 |
| EDU 333 Human Growth and Development | 3 |
| IVE 300 Trade Analysis | 3 |
| IVE 310 Methods and Materials of Instruction | 3 |
| IVE 340 Shop Organization and Management | 3 |
| IVE 350 Philosophy of Vocational Education | 3 |
| IVE 411 Measurement and Evaluation (Vocational) | 3 |
| EDU 324 Student Teaching (Required for all candidates with less than three years of successful teaching ex- perience) | 6 |
| C. Area of Specialization (Technical) | 45 credit hours |
| IVE 400 Trade Experience, verified (Credits will be determined by rating plan) | maximum |
| IVE 440 Related Industrial Experiences (Two options, total credits to be no more than the difference between those granted for IVE 400 and 45 credits.) | |
| Recommended Electives | |
| IVE 315 Learning and Programmed Instruction | 3 |
| IVE 320 Coordination of Cooperative Education | 3 |
| IVE 325 Conference Leading | 3 |
| IVE 330 Principles and Practices of Vocational Guidance | 3 |
| IVE 420 Trends in Vocational Education | 3 |
| IVE 450 Local Administration and Supervision of Vocational Education | 3 |
| IVE 455 Development of Technical Education | 3 |
| IVE 460 Independent Study in Vocational Education | 3 |
| EDU 310 Preparation of Instructional Materials | 3 |
| EDU 314 Curriculum (Education) | 3 |
| Technology Major | |
| (To be taken in place of professional education)..... | 27 credit hours |
| IVE 300 Trade Analysis | 3 |
| IVE 325 Conference Leading | 3 |

| | | |
|---------|---|-----------------|
| | Business Administration | 18 credit hours |
| | (Electives from following areas) | |
| | Economics | |
| | Accounting | |
| | Industrial Management | |
| | Marketing | |
| | Cost Accounting | |
| | Finance | |
| | Industrial Relations | |
| | Human Relations | |
| | (Elect one) | |
| IVE 460 | Independent Study in Vocational Education | 3 |
| IVE 350 | Philosophy of Vocational Education | 3 |

COURSES IN VOCATIONAL INDUSTRIAL EDUCATION

- IVE 300 Trade Analysis** Staff
 Identification of trade fields, units, operations, and items of related information and their organization into units of instruction. Three credit hours
- IVE 305 Curriculum Development in Vocational Education** Staff
 This course is concerned with developing specific course content from an occupational analysis. The identification of educational needs and objectives precedes the selection and organization of relevant matter. Prerequisite: IVE 300. Three credit hours
- IVE 310 Methods and Materials of Instruction** Staff
 This course treats the general and specific materials and methods of teaching vocational courses. Deals with both the theoretical and practical aspects. Three credit hours
- IVE 315 Learning and Programmed Instruction** Staff
 The first application of the laboratory and scientific study of the learning process. The principles of learning derived from experimental study which have provided a foundation for advances in the techniques of learning. Three credit hours
- IVE 320 Coordination of Cooperative Education** Staff
 The role of the coordinator in organizing and conducting a program of work-study experience in high school. Introduction to cooperative half-time training, community survey, advisory committees, laws and regulations; and examination of the responsibilities and activities of the coordinator. Three credit hours
- IVE 325 Conference Leading** Staff
 A course in the philosophy and techniques of organizing and conducting successful conferences. Each participant will assume the responsibility of planning and leading a simulated conference. Three credit hours
- IVE 330 Principles and Practices of Vocational Guidance** Staff
 Discussion and study with the intent to develop a better understanding of principles and objectives of Vocational Guidance. Three credit hours
- IVE 340 Shop Organization and Management** Staff
 Basic principles of planning, organizing and managing an industrial or technical shop or laboratory. Selection and arrangement of equipment including specification writing. Control of personnel for efficient shop management. Prerequisite: IVE 310. Three credit hours
- IVE 350 Philosophy of Vocational Education** Staff
 A survey of the history and philosophy of vocational education in the United States with emphasis upon recent developments. Three credit hours
- IVE 360 Modern Industry** Staff
 Evolution and structure of modern American industry and its impact upon the social, economic, and cultural milieu. Major areas and functions of industry explored include: personnel administration, research and development, production, finance, marketing and service, industrial visitations and reports. Three credit hours
- IVE 382 Preparation of Instructional Materials** Staff
 A lecture-laboratory series which involves students in the creation of instructional materials. Techniques include the dry mounting of flat pictorial materials, cloth backing of pictorial materials, professional quality lettering, rudimentary photography and processing (including use of the darkroom), and the production by several techniques of transparent projectuals. Three credit hours

IVE 400 Trade Experience, verified (see IVE 440, Option #2 below.)

(Credits will be determined by rating plan)

IVE 411 Measurement and Evaluation

Staff

The construction, selection, and use of achievement and performance tests in industrial-technical education. Skill in writing test items is developed. Elementary statistics for the industrial-technical instructor, including grading, are stressed.

Three credit hours

IVE 420 Trends in Vocational Education

Staff

Identification, analysis, and discussion of major problems and trends in vocational education.

Three credit hours

IVE 440 Related Industrial Experiences

(Two options, total credits to be no more than the difference between those granted for IVE 400, and 45 credits).

OPTION #1

This course is designed to include attendance at an approved industry-sponsored school or seminar for the purpose of providing the vocational/technical teacher with advanced related training. Courses provided by organizations such as General Motors Training Centers, or International Typographical Union, qualify under this course offering.

OPTION #2

Approved employment with a company may qualify a student under this option. Arrangements must be approved by the advisor in advance. The experiences should provide opportunities for updating technical skills and knowledge. Credit will be determined on the basis of one credit for each two full weeks of employment with a maximum of five credits for each period of approved continuous full-time employment. A daily log, summary report and evaluation by an industrial supervisor will constitute part of this course.

For additional information concerning either option of IVE 440, consult your advisor.

IVE 450 Local Administration and Supervision of Vocational Education

Staff

Procedure and practices utilized in establishing, promoting, coordinating, supervising, and controlling vocational programs on the local level.

Three credit hours

IVE 455 Development of Technical Education Programs

Staff

Planning and development of technical education programs including the determination of needs and organization of programs for secondary and post-secondary schools.

Three credit hours

IVE 460 Independent Study in Vocational Education

An opportunity to pursue independently a topic, project, or experiment of interest. Students will prepare a contract or proposal for study to be conducted and, upon completion, submit findings in a scholarly report or other evidence of completeness. Permission of advisor.

Three credit hours

Physical Education

Physical Education (Required Program)

The required physical education program is designed to establish regular habits of physical activity, to teach basic motor skills, and provide an exposure to a variety of recreational activities that may be enjoyed in later life. The program takes into consideration the needs of each individual and allows a choice of physical activity to satisfy such needs and the capabilities of each student.

Recreation and Intramural Athletics

The Physical Education Department conducts an extensive program of sports and recreation on an intramural level. An attempt is made to provide activities for all interest groups in as many sports as possible. Competition in leagues or tournaments is conducted in soccer, tennis, golf, cross-country, bowling, flag-football, table tennis, basketball, volleyball, field hockey, lacrosse, badminton, handball, squash, paddleball, track and field, softball, and archery.

In addition to the competitive program, all athletic facilities are available

on a drop-in basis at regularly scheduled hours during the day, evening, week-ends, and vacation periods.

Physical Education (Professional Courses)

The professional courses in physical education are designed for students who have a desire to qualify as physical educators, coach athletic teams, and direct recreational programs. Sound health, outstanding character, proficiency in motor skills, and an alert mind are requirements for admission.

Credits for most of the professional physical education courses offered at the University of Maine at Portland-Gorham may be transferred in the case of students desiring to complete a major in physical education at the University of Maine at Orono or similar institutions. UMPG does not offer a major in physical education at present; however, students completing the program of courses listed will be adequately prepared to enter the coaching field upon graduation.

Required Courses in Physical Education

PE 100 Foundations of Physical Education Staff

Required course for all freshmen. Designed to inform the student of the key concepts of exercise and activity while helping the student assess personal needs in reference to current and future exercise and physical activity. Lecture and laboratory

Two semesters; one credit hour per semester

PE 101 through 195 inclusive Staff

Basic skill courses in many activities designed for the beginner. Actual practice and competitive play are stressed when appropriate. One-half credit hour

Professional Courses in Physical Education

PE 201 Conditioning Staff

Discussions and practical application of various theories of athletic conditioning, i.e., Progressive Resistance, Circuit Training, Isometrics, Interval Training, Aerobics, Calisthenics, etc. One credit hour

PE 202 College Health Mr. Costello

The aim of this course is to help students grow in scientific health knowledge, develop desirable health attitudes, improve health practices, and solve individual and group health problems. Two credit hours

PE 203 Athletic Training Staff

Care and prevention of athletic injuries; the use of proper field equipment, support methods, therapeutic modalities, pharmacology in athletics, and training techniques. Two credit hours

PE 205 Rhythmic Activities Mrs. Breton

To develop skills, techniques, understandings for competency in rhythms, folk dance, and square dance. One credit hour

PE 207 Gymnastics Mrs. Breton

To develop skills, techniques, and understanding for competency in conditioning exercises, tumbling, apparatus, and free exercise. (Open to women only.) One credit hour

PE 208 Folk and Square Dance Workshops Staff

A beginning, intermediate, and advanced affiliation program with the Maine Folk Dance Camp. One credit hour

PE 209 Officiating Women's Basketball Miss Raybould

Study and discussion of the rules as well as practical experience in the techniques of officiating women's basketball. Practical and written tests will be given. Opportunity to become a rated DGWS (Division of Girls' and Women's Sports) official. Offered in alternate years, beginning in September 1972. Two credit hours

PE 210 Officiating Field Hockey Mrs. Hodgdon

Study and discussion of the rules of field hockey as well as practical experience in the techniques of officiating. Practical and written tests will be given. Opportunity to become a rated official. Offered in alternate years, beginning in September 1972. Two credit hours

PE 299 First Aid Safety

Lectures and laboratory experiences in the utilization of techniques of first aid as prescribed by the American Red Cross. Successful completion of course requirements will lead to Advanced Red Cross certification. Staff
Two credit hours

PE 302 Coaching: Philosophy and Fundamentals

Emphasis on the methods of teaching and coaching soccer and baseball. Specific offenses and defenses in soccer will be analyzed. Mr. Bouchard
Three credit hours

PE 303 Coaching Basketball

Emphasis on the methods of teaching and coaching basketball; specific offenses and defenses analyzed. A definite plan of offense and defense presented. Techniques will also be covered. Mr. Sturgeon
Two credit hours

PE 304 Teaching Physical Education in Elementary Schools

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

PE 305 Coaching Track

Coaching experience on the field with analysis of the form and technique of the various events. Selection of candidates, training, conditioning, diet, organization and promotion of track will be covered. Mr. Martin
Two credit hours

PE 306 Movement Education in Elementary and Secondary Schools

Course is designed to help the prospective teacher in planning balanced units of instruction to meet the needs of boys and girls — keeping in mind the importance of engaging in activities which present challenges, having opportunities to be creative, and participating in the planning. Children from grades one to six are part of the experience. Activities based on movement skills are stressed. Also traditional and contemporary dance movements, movement exploration, creative activities. The work can also be applied to all ages, including college and recreational groups. Miss Goodwin
Three credit hours

PE 308 Physical Education for the Mentally Retarded

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

School of General and Interdisciplinary Studies

NEVILLE WILSON, Director

The traditional university, as a glance through this catalog will show, structures knowledge into "boxes" called disciplines, departments, colleges and schools. It does so, in part, in order to facilitate dissemination of information and to provide for specialized in-depth research. These "boxes" do not limit knowledge. In fact, as a closer examination of the catalog will reveal, there are many courses that brim over the supposed boundaries of their specialties and make new and important connections between areas of study. The traditional university does not, however, provide an institutionalized means of encouraging or sharing interdisciplinary exploration. The School of General and Interdisciplinary Studies (SCOGIS) was created to fulfill this need, that is, to provide a forum in which a community of learners could ask questions and formulate answers in an educational environment that reflects the multi-dimensionality of life.

The word "general" in the title of SCOGIS refers to the further need in a university for an alternative to the specialization required by the traditional

structure. A major is suitable for those who wish to focus their investigation of a particular discipline. It hampers, however, those who do not wish to follow a major but instead wish to broaden their knowledge through a program of general studies.

SCOGIS offers this "general" alternative to specialization. In this program of general studies, a student may range freely across the breadth of learning experiences provided by a university. Such a program allows those students who wish to broaden their knowledge or follow an individual program of study a chance to pursue their goals. It enables them to create their own degree program based on their individual needs and the educational opportunities provided by this and other institutions (through a planned exchange program). It also enables these self-directed learners to seek their learning experiences through non-traditional formats—such as through service within the community.

In the area between disciplines there is no certain knowledge; there, the ability to use one's imagination is a necessity. The objective of SCOGIS, therefore, is to encourage the use of imagination by self-directed learners through the provision for non-traditional learning models and the creation of interdisciplinary, and problem and action oriented curricula.

The concept of SCOGIS, developed by the Ad Hoc Committee on Academic Organization in 1970, was approved by the Board of Trustees in the Spring of 1971. It was implemented as a pilot program with curricular autonomy and a limited budget in the Fall of 1971.

Learning experiences in the first year pilot program have ranged from a study of ecology from the perspectives of biology and geology to a student exploration of "accountability" in the university. There have been courses on the allied health services, the survival of humankind, a practicum in-service to the mentally retarded, a television panel series, and a group working with COMBAT.

Courses have been generated and led by students. There have been faculty team-taught courses, a multi-disciplinary course involving a faculty-led master seminar and seven student-led satellite courses, three community-led courses, and a faculty-student team-taught workshop series on the teaching-learning process.

SCOGIS operates through a director and an advisory council of five faculty and five students, as well as a student committee responsible for student-generated projects.

All courses in SCOGIS are evaluated by means of a contract. Appeal procedures are available. The pass-fail option is being negotiated.

SCOGIS wishes to provide problem oriented curricula and "action" approaches to learning for those who wish to get involved now in wrestling with pressing basic social issues, such as inner city, poverty, the handicapped, and ecology. It seeks to develop new ways of learning and doing. Students, faculty, and members of the non-academic community who wish to lead courses in SCOGIS, serve as consultants, or participate in the program should contact the SCOGIS office. Planned programs and a "core" area of study for freshmen are being developed.

The offerings for Fall 1972 are as follows:

COURSE DESCRIPTIONS

SCO 202 Views of the Future

Miss MacLean

Until recently we have advanced into the future looking backward. In the last two generations an abundance of science fiction has given young reading scientists and intellectuals

a choice of future for their vicarious living, but the community has ignored the effect this choice has had on individual action. By considering the most seductive major themes from past science fiction and comparing them with the most attractive themes and views of possible future life styles from current science fiction, we can understand the direction we have been going and predict the next changes of direction toward new and more attractive goals.

Zero to six credit hours

SCO 204 Community and Survival

Mr. Wilson

This course will focus on the necessity for a sense of community, and, in a series of action out-reach programs, will explore the implications of community for survival. A central master seminar will coordinate student actions in the community with cognitive learning about the nature of community, its significance for the development of a self-image, and the importance of both for the survival of humankind. A series of student-generated courses will reach out into the community through an open high school, a project for the handicapped, and an ecology information exchange group.

Zero to six credit hours

SCO 206 Geodesic Domes

Mr. O'Neil

General principles of design, land use, and environmental impact with special regard to geodesic structures. A detailed examination of geodesic structures, their design, construction, and use. A survey of non-geodesic structures such as space grids, tensile, tension, and pneumatic structures. Opportunities to design and build models of structures and a group project which will build a full scale dome. The course will employ field trips, films, and guest speakers.

Zero to six credit hours

SCO 208 Works of Buckminster Fuller

Mr. Hansen

R. Buckminster Fuller is a generalist, a comprehensivist, an anticipatory design scientist, a philosopher-scientist, a poet, and an inventor. As such, his ideas have the utmost relevance for the higher education experience, and are singularly appropriate to the areas of interdisciplinary studies. The objective of this course is to become involved with Fuller's ideas.

Zero to six credit hours

SCO 212 Modern War and Its Images

Mr. Schleh

This is a seminar course designed to examine war through studies of the ways man portrays it. The central theme is neither pro nor anti-war, but rather an objective approach to the ways 20th Century man (primarily American) handles war in vehicles designed to reach and affect the attitudes of large audiences, using as a continuous focus the feature film.

Zero to six credit hours

SCO 214 Teaching and Learning

Mr. Southworth, Miss Casasa

A series of integrated experiences for SCOGIS personnel to (1) become aware of themselves, particularly their values and beliefs related to teaching, learning, and persons; (2) become knowledgeable of less traditional teaching methods; and (3) understand the process of learning more clearly. The focus of attention will be on an experiential approach that considers the needs of those taking the course and not on the establishment of a narrow approach that everyone must follow.

Zero to six credit hours

SCO 216 Independent Study

Staff

This course encourages students to pursue their own areas of interest under the advice of a faculty member.

Zero to six credit hours

SCO 218 Student Generated Projects

Staff

This course is designed to allow the student to pursue interdisciplinary areas of study. The course is a two-semester course. The first semester is the planning, development, and research stages of the project. The second semester is the implementation stage of the project.

Zero to six credit hours

SCO 220 All-Disciplinary Course on the Survival of Humankind

Staff

This course, to be offered in Fall 1972, is organized in two parts: (1) Faculty from many disciplines in the university will be focussing, in part or in whole, on the crises that face 20th century man in education, ecology, spiritual values, social morality, politics, technology, science, and industry. These courses will examine the concept of survival from the perspective of their particular disciplines. (2) In conjunction with this in-depth disciplined examination, SCOGIS will be presenting a series of symposia to explore the concept in a broader context. Speakers will be drawn from faculty, students, administrators, and the community. Films will also be coordinated with the program. Further information will be provided at registration.

Credit to be arranged

University of Maine

School of Nursing

MARY ANN EELLS, Dean

Professor MacLean; Associate Professors Cotton, Eells, Gray, Ivanisin, Jensen, Roscoe, Tryon; Assistant Professors Fish, Haas, Linehan, Maddox, Stone, Talbot; Instructors Bellone, Coggeshall, Dubowick, Edwards, Hammond, Marshall, Paige, Tukey.

GENERAL DESCRIPTION

The University of Maine School of Nursing offers a baccalaureate program of four years and one summer session which leads to the degree of bachelor of science with a major in nursing. One hundred and twenty hours and a cumulative point average of 2.0 are required for graduation.

The program is accredited by the National League for Nursing and approved by the Maine State Board of Nursing. Graduates are eligible to take the State Board Test Pool Examinations for license as registered nurses.

The School of Nursing supports the policies of the Admissions Office that (1) applicants must meet the University standards of personal fitness and (2) that it has the right to cancel acceptance of any applicant that it deems necessary for academic or personal reasons. In addition, the School of Nursing requires that students in the nursing major demonstrate personal fitness throughout the entire program. Health Services are available on campus.

The first two years in the program, consisting largely of general education courses, are available on the Orono, Portland-Gorham, and Presque Isle campuses. The junior and senior years which include clinical nursing courses are available on the Portland-Gorham campus.

The School of Nursing offers credit-by-examination in certain courses of the nursing major for advanced placement. Also available for advanced standing is credit in both general and subject examinations offered through C.L.E.P. (Interested candidates should discuss their eligibility for taking these examinations with the Dean, School of Nursing.)

In addition to the usual University fees and expenses, nursing students must purchase uniforms (approximately \$75.00) during the sophomore year and provide themselves with a car for one semester during the senior year for use in Community Health Nursing.

The Bureau of Health Professions Education, in cooperation with the School of Nursing and the Continuing Education Division, directed by the Associate Dean of the School of Nursing, offers counseling and program guidance to individuals interested in pursuing **part-time** study prior to matriculation in the School of Nursing. Courses for non-credit, such as workshops and seminars in nursing will be offered at various campuses of the University of Maine as reasonable interest is expressed and resources are available. Inquiries should be directed to the Associate Dean, Bureau of Health Professions Education.

Objectives of the Program (Under revision)

In order to prepare the student for nursing in today's world and for the future, the program at the University of Maine School of Nursing is designed to prepare a nurse who can: 1) make relevant, effective responses to the needs

of people in providing direct care; 2) demonstrate an ability to work effectively to coordinate care in various settings; 3) identify a personal role as a professional nurse in the community.

Philosophy (Under revision)

The faculty believes that nursing is an art and a developing science which began with the simple acts of caring and curing. The essence of nursing is captured in the word "response." Nursing begins with the initial response of recognizing the biological, social, and psychological needs of the client, makes a priority assessment of such needs, and utilizes feasible modes of nursing intervention. It is this set of sensitive and crucial responses which comprise excellence in nursing care.

The faculty further believes that adequate professional nursing preparation occurs within the climate of higher education. The practice of nursing stems from a theoretical base that concerns man in his biological, social, and cultural environment, and the utilization of this knowledge in nursing science.

The Baccalaureate Program

The student who matriculates at Portland-Gorham must attain a cumulative average of 2.0 to enter the courses at the junior level of the nursing major.

Students receiving a D grade or below in a clinical course of the nursing major beyond the first semester of the junior year will be required to repeat the course.

SCHOOL OF NURSING PROGRAM FRESHMAN AND SOPHOMORE YEARS

| Required | | | Credit | Hours |
|---------------------------|--|---|--------|-------|
| Humanities | | | 6 | |
| Fine and Applied Arts | | | 6 | |
| Science and Mathematics | | | 20 | |
| BIO 101 | Biological Principles | 3 | | |
| BIO 111 | Human Anatomy and Physiology | 3 | | |
| BIO 112 | Practical Human Anatomy and Physiology | 1 | | |
| CHEM 113 | Chemical Principles I | 4 | | |
| CHEM 114 | Chemical Principles II | 4 | | |
| BIO 311 | Microbiology | 3 | | |
| BIO 312 | Microbiology Lab | 2 | | |
| Social Sciences | | | 12 | |
| PSY 101 | General Psychology | 3 | | |
| PSY | Elective | 3 | | |
| SOC 101 | Introduction to Sociology | 3 | | |
| SOC | Elective | 3 | | |
| or | | | | |
| ANY 101 | Introduction to Anthropology | 3 | | |
| or | | | | |
| POL 101 | Introduction to Government | 3 | | |
| Interdisciplinary Courses | | | | 6 |
| FN 352 | Human Nutrition | | | 3 |
| NSG 100 | The Role of the Nurse | | | 3 |
| | Physical Education | | | 2 |

SUMMER SESSION

| Required | | | Credit | Hours |
|----------|------------------------------|--|--------|-------|
| NSG 300 | Introduction to Patient Care | | 3 | |

JUNIOR YEAR

| Nursing | | | | 24 |
|---------|------------------------------------|---|--|----|
| NSG 301 | Medical-Surgical Nursing I | 6 | | |
| NSG 302 | Medical-Surgical Nursing II | 6 | | |
| NSG 303 | Nursing of Mothers and Children I | 6 | | |
| NSG 304 | Nursing of Mothers and Children II | 6 | | |

SENIOR YEAR

| | | | |
|---------|-----------------------------------|----|----|
| Nursing | | | 29 |
| NSG 400 | Advanced Medical-Surgical Nursing | 12 | |
| NSG 401 | Community Health | 3 | |
| NSG 402 | Community Health Nursing | 6 | |
| NSG 403 | Psychiatric Nursing | 6 | |
| NSG 404 | Seminar in Nursing | 2 | |

The clinical nursing courses are taught in the Departments of Medical-Surgical Nursing, Maternal and Child Health Nursing, Advanced Medical-Surgical Nursing, Community Health Nursing, and Psychiatric Nursing.

COURSE DESCRIPTIONS

| | |
|---|---------------------------|
| NSG 100 The Role of the Nurse | Mrs. Eells |
| A survey of the current and expanding roles of the nurse. | Three credit hours |
| NSG 300 Introduction to Patient Care | Miss Stone, Staff |
| An introduction to basic concepts of nursing with emphasis on interpersonal relationships and beginning technical skills. | Three credit hours |
| NSG 301 Medical-Surgical Nursing I | Miss Talbot, Staff |
| Nursing intervention required for the major health needs of adults with an emphasis upon the scientific principles necessary to nursing action. Prerequisite: NSG 300. | Six credit hours |
| NSG 302 Medical-Surgical Nursing II | Miss Talbot, Staff |
| A continuation of NSG 301. | Six credit hours |
| NSG 303 Nursing of Mothers and Children I | Staff |
| A family-centered approach to the nursing needs of parents and children in community care agencies. Prerequisite: NSG 300. | Six credit hours |
| NSG 304 Nursing of Mothers and Children II | Staff |
| A continuation of NSG 303. | Six credit hours |
| NSG 400 Advanced Medical-Surgical Nursing | Miss Stone, Staff |
| Concepts of nursing intervention based on scientific principles. Emphasis is on current trends in clinical nursing and the organizational principles relevant to the leadership role in coordinating the work of others. Prerequisites: NSG 301, NSG 302, NSG 303, and NSG 304. | Twelve credit hours |
| NSG 401 Community Health | Miss Roscoe |
| Concepts and principles basic to the development and maintenance of community health, including theories of ecology, biostatistics, epidemiology, and the organization and delivery of health care. | Three credit hours |
| NSG 402 Community Health Nursing | Miss Roscoe, Staff |
| Concepts of community health and the nursing process essential to the practice of nursing in the community. | Six credit hours |
| NSG 403 Psychiatric Nursing | Miss Cotton, Staff |
| The study of psychodynamic concepts and their application to nursing care. | Six credit hours |
| NSG 404 Seminar in Nursing | Miss Ivanisin |
| Current problems and issues of the profession. | Two credit hours |
| NSG 295 Independent Study in Nursing I | Staff |
| Individualized study in an area of nursing with the permission of the instructor. | Two to three credit hours |
| NSG 395 Independent Study in Nursing II | Staff |
| Individualized study in an area of nursing with the permission of the instructor. | Two to three credit hours |
| NSG 495 Independent Study in Nursing III | Staff |
| Individualized study in an area of nursing with the permission of the instructor. | Two to three credit hours |
| FN 352 Human Nutrition | Miss Jensen |
| Body metabolism and requirements for nutrients by normal individuals. Prerequisites: CHEM 101, CHEM 102 or equivalent, and BIO 111. | Three credit hours |

Graduate Studies

ROBERT M. YORK, Dean

ELIZABETH F. KERR, Assistant Dean

Currently, UMPG offers programs leading to the following graduate degrees: Master of Business Administration, Master of Education, Master of Science in Education, and Master of Engineering. In addition, a program leading to the degree of Master of Library Science is offered in cooperation with the University of Maine at Orono, which grants the degree in that program. Information concerning each of these programs may be obtained from the Office of Graduate Studies, 103 Corthell Hall, UMPG, Gorham, Maine 04038.

Application for admission to a program of graduate study should be made to Dr. Robert York, Dean of Graduate Studies, 103 Corthell Hall, UMPG, Gorham, Maine 04038, on the form provided for this purpose. In order to be admitted to a program of graduate study, an applicant must have received a baccalaureate degree from an accredited college or university and, as judged by the previous scholastic record or otherwise, must show promise of ability to pursue advanced study and research.

All applicants, except those for the M.B.A. program, are required to provide the results of their performance on either the Graduate Record Examination or Miller Analogies Test. In the case of the GRE the results should include the scores obtained on the general aptitude portion of the examination and on the **appropriate advanced test**. Applicants for the Master of Business Administration program should present scores from the Admission Test for Graduate Study in Business in lieu of GRE scores or MAT scores.

An application is not considered complete until all the required transcripts, the appropriate test scores, and letters of recommendation are on file. All material sent in support of an application for admission becomes the property of UMPG and will not be returned to the student.

An applicant's admission status will be one of the following: Regular, Conditional, Non-Degree, or Transient.

LISTINGS OF GRADUATE PROGRAMS

Master of Business Administration

Material describing the program leading to the degree of Master of Business Administration is provided on pages 134-135 of this catalog.

Master of Engineering

Material describing the program leading to the degree of Master of Engineering is provided on pages 101-102 of this catalog.

Master of Science in Education

The Classroom Teacher (K-12) — 33 credits

*12-24 credit hours in Liberal Arts

6-18 credit hours in Professional Education

3 credit hours in EDU 550 Research Seminar
Comprehensive Examinations

*A minimum of 9 hours must be completed in one of the following disciplines: English, Geography, History, Mathematics, Psychology, Science, or Sociology.

Elementary and Secondary High Reading — 33 credits

12-18 credit hours in Professional Education

- *EDU 512 Sequential Development of the Reading Domain
- *EDU 537 Reading Remediation (K-6)
- *EDU 539 Clinical Practices in Reading (Clinic)
- EDU 511 Reading Synthesis in the Middle Grades
- EDU 538 Analysis of Reading Difficulties (Grades 7-12)
- EDU 536 Innovations in Reading
- *EDU 543 Teaching Language Arts in the Elementary School
- EDU 571 Introduction to Counseling
- EDU 540 Learning Disabilities
- EDU 515 Children's Literature or
- EDU 546 Adolescent Literature

12-18 credit hours in Liberal Arts

- EDPY 521 Individual Psychological Testing
- EDPY 560 Psychology of Learning for Educators
- EDPY 575 Psychology of the Exceptional Child
- EDPY 582 Psychological Measurement and Evaluation
- ENG 503 Modern Short Story
- ENG 540 History of the English Language
- ENG 580 Linguistics

3 credit hours in EDU 550 Research Seminar

- *Required courses
- Comprehensive Examination in Reading

Elementary Guidance — 33 credits

9-18 credit hours in Counselor Education as follows:

- *EDU 570 Introduction to School Guidance Services
- *EDU 571 Introduction to Counseling
- EDU 572 Occupational and Educational Theory and Information
- EDU 582 Internship (K-8)
- *EDU 590 Practicum (K-8)

12-18 credit hours in Psychology and/or related areas as follows:

- *EDPY 521 Individual Psychological Testing
- EDU 537 Reading Remediation (K-6)
- EDU 540 Learning Disabilities
- *EDPY 562 Group Process and Procedure
- *EDPY 567 Child Psychology
- EDPY 568 Adolescent Psychology
- *EDPY 582 Psychological Measurement and Evaluation
- EDPY 575 Psychology of the Exceptional Child

3 credit hours in EDU 550 Research Seminar

- Comprehensive Examination in Guidance
- *Required for Elementary Counselor's Certificate

Secondary Guidance — 33 credits

12-18 credit hours in Counselor Education as follows:

- *EDU 570 Introduction to School Guidance Services
- *EDU 571 Introduction to Counseling
- *EDU 572 Occupational and Educational Theory and Information
- EDU 582 Internship (7-12)
- *EDU 590 Practicum (7-12)

12-18 credit hours in Psychology and/or related areas as follows:

- EDPY 521 Individual Psychological Testing
- *EDPY 562 Group Process and Procedure
- EDPY 567 Child Psychology
- *EDPY 568 Adolescent Psychology
- EDPY 575 Psychology of the Exceptional Child
- *EDPY 582 Psychological Measurement and Evaluation
- EDU 538 Analysis in Reading Difficulties (7-12)
- EDU 540 Learning Disabilities

3 credit hours in EDU 550 Research Seminar

- Comprehensive Examination in Guidance
- *Required for Secondary Counselor's Certificate

Industrial Education — 33 credits

6-15 credit hours in Industrial Arts

9-18 credit hours in Liberal Arts

6 credit hours in Professional Education

3 credit hours in EDU 550 Research Seminar

Comprehensive Examination in Industrial Education

Elementary Administration — 33 credits

12-18 credit hours in Liberal Arts

EDPY 560 Psychology of Learning for Educators is required

12-18 credit hours in Professional Education as follows:

EDU 508 Supervision in the Public Schools

EDU 509 Elementary Administration

6-12 credit hours to be elected from the following courses:

EDU 530 Evaluating Pupil Achievement

EDU 533 School Law

EDU 534 School Personnel Administration

EDU 570 Introduction to School Guidance Services

EDU 583 Public Relations

EDU 589 School Finance

3 credit hours in EDU 550 Research Seminar

Comprehensive Examination in Administration

Secondary Administration — 33 credits

12-18 credit hours in Liberal Arts

EDPY 560 Psychology of Learning for Educators is required

12-18 credit hours in Professional Education as follows:

EDU 507 Secondary Administration

EDU 508 Supervision in the Public Schools

6-12 credit hours to be elected from the following courses:

EDU 530 Evaluating Pupil Achievement

EDU 533 School Law

EDU 534 School Personnel Administration

EDU 570 Introduction to School Guidance Services

EDU 583 Public Relations

EDU 589 School Finance

3 credit hours in EDU 550 Research Seminar

Comprehensive Examination in Administration

The programs in Administration and Guidance are designed to satisfy state certification requirements for the elementary principal or counselor (K-8) and the secondary principal or counselor (7-12). It is assumed that candidates in the Guidance programs hold the necessary teaching certificate and will have completed a minimum of two years of successful teaching by the time their graduate program is completed. Candidates in the Administration programs must have completed three years of successful teaching.

Master of Library Service — 36 credits

This program is operated jointly by the University of Maine at Portland-Gorham and the University of Maine at Orono. All credits may be earned at either campus or appropriate courses may be completed at both.

There is a required core of twenty-one credit hours as follows:

Cataloging and Classification 3 credits

One of the following:

Advanced Cataloging and Classification 3 credits

Technical Services in Libraries 3 credits

Introduction to Reference Materials and Services 3 credits

Two of the following:

Subject Reference Sources 3 credits

Literature of the Social Sciences 3 credits

Literature of the Humanities 3 credits

Literature of Science and Technology 3 credits

Library Organization and Administration 3 credits

Selection of Library Materials 3 credits

In addition, enrollees will elect nine credits in other courses in Library Service. Enrollees may elect an additional six credits from appropriate courses outside Library Service.

School of Law

EDWARD S. GODFREY, DEAN

Professors Orlando E. Delogu, Donald L. Garbrecht, Edward S. Godfrey, David J. Halperin, Gerald F. Petruccelli, John Andrew Spanogle, L. Kinvin Wroth; **Associate Professors** Stephen R. Feldman, David D. Gregory, Judy R. Potter, Merle W. Loper, Martin A. Rogoff; **Lecturers** James H. Bonney, David B. Hawkes, Edwin A. Heisler, William F. Julavits (Assistant Dean), Leonard M. Nelson, Richard E. Poulos.

History and General Description

The University of Maine School of Law, established in Portland in 1961, is the successor of the university's college of law which existed in Bangor from 1898 to 1920. The school is located on the undergraduate campus of the University in Portland, in a new building of unique architectural design, where the law school shares facilities with the Advanced Study and Research Center.

The research activities of the law students and faculty already extend over a wide range of social problems, and the proximity of the law school to the various institutes in the Research Center will foster continuing interdisciplinary study. A distinctive feature of the school is the close working relationship among students and faculty resulting in part from the small size of classes.

The school is a charter member of the Association of American Law Schools, having resumed membership in 1966, and is on the fully approved list of the American Bar Association. As an element of the University of Maine, the school is accredited by the New England Association of Colleges and Secondary Schools.

Library and Physical Facilities

The library, containing over 92,000 volumes, provides a sound working collection of legal and collateral materials. The new building has space for expansion to 150,000 volumes. An integral part of the library program is a course of instruction to students in legal research, beginning early in the first year and continuing through the senior year as an adjunct of the senior thesis program.

Basic Program of Study and Degree Requirements

The law school is on the semester basis, with 88 semester credits required for the J.D. degree. The first year curriculum, including work in the basic legal subjects, is required of all students. Through the case-and-problem method of instruction, the student has an opportunity to apply, compare, and test legal concepts in varying situations, using legal precedents and authorities from all jurisdictions, as well as relevant materials drawn from other disciplines. The perspective is national, although statutes and rules peculiar to Maine are noted to some extent. Classroom work is supplemented by programs of legal writing, drafting, advocacy, and clinical practice designed to promote professional skills. Within this framework the successful student comes to understand basic principles of law, their purposes and social origins, and the processes by which legal institutions grow.

The school has a writing program designed to develop the student's skill in research, writing, and advocacy. In the first year the program is devoted

to legal analysis and writing, with emphasis on criticism and rewriting. In the second year a student may participate in a moot court program in which the student prepares a formal brief upon an assigned legal issue and argues the position orally before a moot court. In the third year each student is required to prepare and submit a research paper on some topic determined by the student in consultation with a faculty adviser. The student may satisfy this requirement by preparation during the third year of a note or comment in publishable form for the *Maine Law Review*. The thesis affords the senior law student an opportunity to explore in depth some topic that may not be treated in the regular curriculum in which the student has developed a special interest.

The curriculum is taught by a resident faculty of twelve members, plus occasional lecturers from bench and bar.

Special Programs

Third-year students in good standing are permitted under special rules to represent indigent clients before any state court in Maine provided they are properly supervised in a public agency or legal assistance office. Some third-year students will be authorized under similar rules to represent the state in prosecutors' offices in counties near Portland. The clinical practice courses are specifically offered to help the student further develop and refine skills in advocacy and negotiation. Junior and senior students who are interested in serving as research assistants to professors are often invited to do so.

Activities

Law students participate on many university committees and councils concerned with governance of the University of Maine at Portland-Gorham. The *Maine Law Review*, published twice a year by law students, concerns itself with national and state legal problems, with some emphasis on matters of current interest to the public. The Student Bar Association, which performs the usual functions of student government, has a special committee which researches problems referred to it by lawyers and judges. The association is partly financed with the proceeds from such research. The Law Students Civil Rights Research Council gives research assistance in civil rights cases, particularly those arising in Maine.

Students

Most of the law students are from Maine and other New England states; the rest come from the midwestern and northeastern states, with a few from the Rocky Mountain area. During 1971-72 there were 180 students, of whom fifteen were women; the student body included graduates of 62 colleges and universities. The academic failure rate has been about five percent, although some students have withdrawn in the first year after being placed on probation.

Admission

An applicant must hold a bachelor's degree from an accredited college or university and must take the Law School Admission Test before entering law school. Transcript evaluation by the Law School Data Assembly Service is required except in unusual circumstances. There are no specific prerequisites for an undergraduate curriculum, but the law school offers in its own catalog some suggestions regarding pre-law study.

Beginning students are admitted only in September; transfer students into the upper classes may be admitted at the beginning of the spring semester

only in extraordinary circumstances. Written recommendations are required, but personal interviews are not encouraged. The deadline for applications is February 15, and applications must be completed by April 1, 1973; applications received after February 15 will be processed only if the lateness is satisfactorily explained.

Because admission has become extremely competitive, those who show the highest promise of effective performance will be chosen from all the applicants. Although the admissions committee considers many factors in the records of applicants, academic performance in college and Law School Admission Test scores are evidence to which the committee necessarily attaches considerable weight in making its choices. In the class entering in September 1971, the mean LSAT score was 610 and the mean grade-point average was 3.0 on a 4-point scale. The averages are expected to be higher for the class entering in 1972.

Expenses and Financial Aid

Residents of New England will be charged \$550 for tuition and fees for the year 1972-73; non-residents, \$1,650. Expenses for a single student are estimated at \$2,300 plus tuition and fees. Scholarships and loans are awarded by the university student aid office on the basis of need.

Housing

Most law students live in apartments in the city of Portland or suburban homes. There may be a few dormitory rooms available for law students in the undergraduate dormitories at the Gorham campus of the University of Maine at Portland-Gorham. It is recommended that new students come to Portland a few days before school opens in order to find suitable housing.

Correspondence

Registrar, University of Maine School of Law, 246 Deering Avenue, Portland, Maine 04102.

Continuing Education Division

WILLIAM G. MORTENSEN, Director of Public Service

WILLIAM U. SMALL, Director of C.E.D. and Summer Session

Nye E. Bemis, Center Director of Continuing Education and Summer Session, Gorham Campus; John N. Farrar, Assistant Director for Counseling, Continuing Education and Summer Session; Raymond P. Kane, Short Course Coordinator; Catherine A. Laffin, Administrative Assistant; Carol J. Gray, Director, Bureau of Health Professions Education.

The Continuing Education Division offers a broad diversity of programs, including those to meet specialized needs and designed to relate the University to the outlying community, and also those to meet the cultural and academic needs of persons who have to work during normal daylight hours but who are able and willing to take university courses offered in the late afternoon, in the evening, on Saturdays, or during day or evening Summer Sessions.

ACADEMIC PROGRAMS OFFERED BY C.E.D.

Persons who have to work during daytime hours may enroll for individual courses for which they are qualified. Adults who have not made formal application for degree status, but are interested in following a C.E.D. program leading to admission as a degree candidate, are required to receive counseling from a C.E.D. Counselor in order to be admitted as Deferred Degree Candidates. Persons who register as Deferred Degree Candidates, complete the basic program specified by their C.E.D. Counselor, and earn grades acceptable for transfer, may then apply as regular Degree Candidates with a transfer of applicable credits.

Applicants who satisfy the same admission standards as students enrolled in the day division of UMPG are classified as Degree Candidates. Undergraduates who wish degree status must apply to the Director of Admissions, as explained on pages 10 through 16 in this catalog. Graduate students must apply to the Dean of Graduate Studies, as explained on page 161. Degree Candidates are those who have been accepted by the Committee on Admissions.

The Continuing Education Division offers many of the academic programs described on the earlier pages of this catalog. A few programs, such as those of the School of Law or some of the laboratory-centered undergraduate programs in the various sciences, are not offered. Most of the other subjects described in this catalog are available on either an annual or a rotating basis.

The current academic-year enrollment of the Continuing Education Division totals approximately 6,000 part-time students, and an additional 3,000 persons are normally enrolled in the various Summer Session courses. Further details are given on page 9 of this catalog. C.E.D. tuition and fees are listed on page 17.

In addition to the varied CED programs for undergraduate and graduate students, the Division offers many short courses, specialized seminars, and other programs.

CERTIFICATE PROGRAM IN MANAGEMENT

For those who are interested in the field of management and desirous of improving skill and effectiveness, the Continuing Education Division offers a program leading to a certificate in Management.

The program is the result of consultations with business and educational leaders. The subjects are designed to meet the specific needs of the business community. Upon completion, it is expected the participants will be better equipped with basic, usable knowledge of management principles, thus contributing to career, company, and society.

The following courses are offered in the program:

CSM 010 Business Management I
CSM 011 Psychology Applied to Business
CSM 012 Legal Aspects of Business*
CSM 013 General Economics
CSM 014 Oral Communication
CSM 015 Written Communication
CSM 018 Business Management II
CSM 028 Human Relations*

CSM 030 Marketing and Distribution
CSM 040 Production Control*
CSM 041 Electronic Data Processing*
CSM 042 Policy Formulation and Administration
CSM 050 Managerial Accounting I
CSM 051 Managerial Accounting II*
CSM 052 Business Mathematics

*Electives: Two to be chosen to meet Certificate requirements as explained below.

The subjects of the program are designed to be both flexible and practical from the standpoint of the needs of management. Each course will frequently have the traditional college approach as well as practical aspects necessary for current business practice. A "Certificate of Completion" rather than degree

credit will be awarded to those who successfully complete the Certificate Program.

Each course is scheduled for ten weeks and, with a few exceptions, classes will be of two and one-half hours duration. Those not interested in completing the entire program may register in individual courses. Upon completion of the ten required courses and two of the five elective courses identified with an asterisk (*), a Certificate of Completion will be awarded by the Continuing Education Division.

Instructors include business specialists and faculty members from the University and other institutions. As of September 1972, the fee for each course was \$35, plus a \$5 registration fee. Textbooks and study materials are not included in the charge. A brochure is available upon request.

SPECIALIZED SEMINARS AND SHORT COURSES

Throughout the school year, the Continuing Education Division periodically offers a variety of seminars, institutes, workshops, conferences, and other short courses. The specialized programs are frequently developed at the request of the representative of a group, a member of the university staff, or an interested individual. Many programs include a group of lectures and seminars scheduled for a single day; others consist of briefer sessions once a week for several weeks.

Some of the more popular subject matter is in the area of:

| | | |
|-------------|-----------------------|----------------|
| Engineering | Pollution Control | Transportation |
| Retailing | Purchasing | Management |
| Shakespeare | Veterinarian Medicine | |

Although local talent is utilized when available, each lecturer or seminar leader is a professional in his given field, and speakers are often recruited from distant parts of the United States or Canada. Since this type of public service must be self-supporting, a nominal tuition fee is charged.

Information regarding specialized courses is available from the Continuing Education Division Office, 96 Falmouth Street, Portland, Maine 04103 (Telephone 773-2981, extension 273).

PUBLIC SERVICE FACILITIES OF U.M.P.G.

The University of Maine at Portland-Gorham offers facilities at both campuses for conferences, institutes, seminars, workshops, and training programs. Thousands of persons each year take advantage of the resources and facilities offered by the University to such groups.

Meetings of educational value — whether their primary purpose may be to impart information, solve problems, upgrade professional skills, further some aspect of education, or develop a greater understanding of current problems — are a part of the total educational program of the University of Maine at Portland-Gorham.

VOCATIONAL INDUSTRIAL EDUCATION

A program recognizing Trade and Industrial Experience and awarding college credit through part-time evening and summer courses leading to a Bachelor of Science degree is designed to:

- (a) prepare instructors for the teaching of Vocational-Industrial and/or technical subjects in high schools and post-secondary schools;
- or (b) provide non-teaching majors an opportunity to pursue a collegiate

program leading to a degree which recognizes trade and technical competencies and provides knowledge in business and industry leading to supervisory, technical, or middle-management positions.

This program is described on page 150 of this catalog.

For additional information, contact Dr. Arthur O. Berry, Director of Vocational Industrial Education, U.M.P.G., Gorham, Maine 04038.

CRIMINAL JUSTICE PROGRAMS

The Criminal Justice Program leading to a baccalaureate degree is a complete four-year program with major concentration patterns in Political Science, Sociology, and Criminal Justice sequences. The program is designed to permit each student to select a 36-hour core curriculum sequence in addition to completing all University requirements for the degree.

In addition, two academic-credit Criminal Justice Certificate programs, basic and advanced, are offered in cooperation with the Continuing Education Division. The certificate programs are designed to meet the specific needs of those students who are interested in improving their professional qualifications in areas directly related to the criminal justice system.

Each certificate candidate who is not immediately qualified to meet university entrance requirements is strongly urged to contact the C.E.D. office and arrange for a deferred degree program interview.

The objective of these programs is to provide a basis for examining various activities concerned with the process of criminal justice. Students will receive a broad liberal education in conjunction with their concentration upon specialized areas involved within the criminal justice system.

The degree program in Criminal Justice is described on pages 50-52 in this catalog. C.E.D. offers both this program and a Certificate Program for non-degree candidates. Brochures describing both programs may be obtained from either the Portland or Gorham C.E.D. offices.

BUREAU OF HEALTH PROFESSIONS EDUCATION

Including

CONTINUING EDUCATION FOR NURSES

The Bureau of Health Professions Education offers credit and non-credit courses developed to supplement the required general education courses for the nursing major now available on three campuses—Portland, Orono, and Presque Isle.

Refresher courses are being planned in the areas of Community Health and Psychiatric Nursing. Dates for these courses will be announced later. As interest and demand are made known to the Bureau Director for special course offerings, efforts will be made to make them available in the geographic area having the expressed educational need. Telelecture series are being made available on an experimental basis, and will be expanded if the present program receives a positive evaluation.

In addition to regular academic course offerings, the Bureau will offer workshops, seminars, institutes, and conferences in cooperation with the Maine State Nurses' Association, Bingham Associates, the Regional Medical Program, and any other organization wishing joint sponsorship of a program.

Programs in Allied Health will be developed and offered through the Bureau at the request of interested professional groups and health service administrators. It is anticipated that these programs will be financed both by the professional organizations and the students who enroll in the courses.

Program information and student guidance are available through the Bureau Director, Carol J. Gray, R.N., Ed.D., at the University of Maine at Portland-Gorham, 100 Payson Smith Hall, 96 Falmouth Street, Portland, Maine; (Telephone 773-2981, extension 257).

BUREAU OF UNIVERSITY-COMMUNITY SERVICES

The Continuing Education Division established the Bureau of University-Community Services in September of 1969 at Portland-Gorham. The office is located in Payson Smith Hall at the Portland Campus.

Objectives of the Bureau are three-fold:

1. To respond to requests for University assistance by the urban community.
2. To coordinate the Continuing Education Division's efforts to develop new and innovative programs for the disadvantaged and other community groups.
3. To stimulate, develop, and monitor Continuing Education Division proposals and grants which jointly involve the local community and the University of Maine.

Thus far, the Bureau has generated \$350,000 in support of an Adult Basic Education program in the Model Cities area; completed a synopsis on University of Maine involvement in the Model Cities program; completed a study for the Insurance Women of Southern Maine; initiated committee work on possible major land gifts to the University; developed a concept paper for the Education and Manpower Component of the Advanced Study and Research Center; provided financial and technical assistance in writing and supporting additional grant requests; initiated \$15,000 of grant requests for 1972-73; and is currently directing a \$75,000 Model Cities grant for Model Cities children with learning disabilities.

Further information may be obtained from the Bureau of University-Community Services, U.M.P.G., 96 Falmouth Street, Portland.

THE URBAN ADULT LEARNING CENTER

The Urban Adult Learning Center (UALC) is an off-campus project of the University, operating in a building in the heart of the Portland Model Cities Neighborhood. It is Maine's first full-time adult education facility, designed to teach reading, mathematics, and language skills to adults whose education has been interrupted.

The basic objective of the UALC is to assist undereducated adults in preparing to cope with the demands of modern living. It directs its energy toward meeting the individual educational needs of each student. Instructors and volunteer tutors are available at the UALC from 9:00 a.m. to 9:00 p.m., Monday through Friday, so that a student may schedule his study to suit his convenience. Instruction is offered at all skill levels from elementary reading and mathematics through preparation for the high school equivalency (GED) examination. Special tutoring is available to assist adults with deficient educational backgrounds so that they may enter college and succeed.

The staff of the UALC also offers teacher training to professionals, para-professionals, and University volunteers and practice teachers in the creative use of independent study, tutoring, audio-visual aids and other media, and various educational techniques in a constructive adult education program. All materials and methods used have been carefully researched and tested at the UALC.

Local Offices Representing Statewide University Functions

Several offices, located in buildings shown on the campus maps near the back of this catalog, are not under the administration of UMPG but represent statewide services of the University of Maine. Among these are the Chancellor's Portland office at 228 Deering Avenue, the Cumberland County office of the Cooperative Extension Service at 15 Chamberlain Avenue, the Portland ETV office for the development of local instructional television at 120 Bedford Street, the Southern Maine office of the Bureau of Labor Education in Payson Smith Hall, and the Gorham Campus office of the Coordinator of Cooperative Education.

THE CHANCELLOR'S OFFICE

One of the offices of the Chancellor of the University of Maine is located next to the new Law School and Advanced Study and Research Center at UMPG. The Chancellor's office building also houses the Health Science Program Planning Staff of the University of Maine.

COOPERATIVE EXTENSION SERVICE

A broad variety of services to bring the benefits of the University to families and community groups in both the inner city and also suburban and rural areas is provided by the Cooperative Extension Service of the University of Maine. All of Cumberland County is served by the CES office at 15 Chamberlain Avenue on the Portland Campus. Some programs, such as the annual series for persons preparing for retirement or the seminars on various aspects of family money management for married couples, are normally offered in UMPG classrooms, if space is available. Many of the urban programs are conducted in low-rent housing developments or Model City neighborhood centers, where 4-H clubs adapted to the needs of urban children are developed and training in homemaking and in the planning and cooking of meals utilizing government-surplus foods is provided. CES aides supplement the services of the professional staff in such cases.

In addition to these newer programs for inner city inhabitants, the more traditional programs for residents of suburban and rural areas throughout Cumberland County are continued. The staff of the Portland CES office includes specialists in urban community development, a nutritionist, a district recreation specialist, a dairy specialist, an agricultural specialist, and other county agents. Visiting specialists from the Orono Campus provide added services from time to time. The work of the local and visiting specialists is multiplied through volunteer leaders in community groups scattered throughout the county.

INSTRUCTIONAL TELEVISION

Instructional television, which is not broadcast for home reception like general educational television but which is beamed directly for use in specific

classrooms or other meeting places, is being developed in the Greater Portland area through the services of the Portland ETV office at 120 Bedford Street. One of the recent developments has been the installation of in-service instructional television facilities at major hospitals in the area. Demonstration operations or similar procedures conducted at the University of Vermont Medical School or other facilities are transmitted to the receiving antenna on the roof of Luther Bonney Hall, converted electronically for local transmission, and then beamed to dish antennae mounted on the roofs of local hospitals. In this way, hospital staff members may view the latest surgical or therapeutic techniques on television screens in staff lounge rooms. Both live and taped instructional materials are utilized. This type of development is but one example of the sort of project being developed by the local instructional television office.

BUREAU OF LABOR EDUCATION

The Bureau of Labor Education schedules frequent seminars at convenient locations throughout the State of Maine. Some of these seminars are custom-tailored to meet the needs of specific labor-union organizations. Others, such as the seminars on "Fact Finding for Fact Finders," "Unemployment Compensation," "The Maine Economy," and "Workmen's Compensation," deal with matters of general state-wide concern.

Programs have been developed for groups interested in such subjects as steward training, grievance procedures, preparation for negotiations, negotiating techniques, labor law, ways to run a union meeting, public relations for union or employee organizations, determining the bargaining unit, labor economics, foreign import problems, community action, mediation, fact finding and arbitration, tax policy, labor history, and similar subjects. Other specialized program topics are developed on request. The Bureau of Labor Education also offers some research and consultation services. Persons desiring further information should contact Roger V. Snow, Jr., Director of the Bureau of Labor Education, at his Portland office in Payson Smith Hall.

COOPERATIVE EDUCATION

Cooperative education is a method of integrating classroom theory with practical experience. Students alternate specific periods of attendance at the University with specific periods of employment. The word "cooperative" emphasizes that the plan combines the efforts of employers and educators to form a superior total educational program for students. Its primary value is educational. Of secondary importance is the opportunity for students to earn money for college expenses and for employers to find a ready market of good workers.

Under the direction of University Professor Kenneth T. H. Brooks, various programs of cooperative education are being established throughout the University of Maine. At UMPC the Department of Business Administration of the School of Business and Economics now offers one of these programs, as described in this catalog.

Persons desiring further details should correspond directly with Dr. Kenneth T. H. Brooks, University Professor, Coordinator of Cooperative Education, College Avenue, Gorham, Maine 04038.

Landmark Dates in the Development of UMPG

- 1773—Construction date of the *McLellan House*, considered to be the oldest brick house in the State of Maine and the oldest building still used by UMPG. It was purchased and renovated by Gorham State College in 1966 and is currently operated as an honor resident dormitory for 16 women students.
- 1780—The approximate date of the construction of the *Cape Cod* building on the Portland Campus. In 1947 it was acquired by purchase of part of the Deering Estate by the trustees of Portland Junior College and has been used for offices ever since.
- 1807—Construction date of the *Academy Building*. Built to house the original Gorham Academy, it was presented to the State of Maine in 1895. In 1966 it was renovated to contain studios, offices, and classrooms for the Art Department.
- 1821—Construction date of the *Art Gallery*, originally built as the Gorham Town Hall. Acquired by Gorham State Teachers College in 1961 for use as a student chapel, it now houses the Gorham Campus Art Gallery.
- 1878—Establishment of *Western Maine Normal School* on the site of the former Gorham Female Seminary approved by the Maine Legislature. The Normal School opened on January 29, 1879, with six faculty members and 85 students.
- Dr. William Corthell* appointed first president of the institution. He served for 27 years, from 1878 to 1905.
 - Corthell Hall* built to house the original Western Maine Normal School. Afterward named to honor the first president, it now houses administrative offices, information desk, classrooms and offices of the Music Department, and the Museum of Man.
- 1897—Construction of *Robie Hall*, the first unit of the Robie-Andrews Halls dormitory complex. Robie Hall is named for Governor Frederick Robie, an early benefactor of Gorham.
- 1905—Inauguration of *Dr. Walter F. Russell* as the second president of Western Maine Normal School. He served in this office for 35 years, from 1905 to 1940.
- 1906—The *President's Residence* constructed on the Gorham Campus.
- 1911—The *Industrial Arts Program* established at Gorham.
- 1916—*Andrews Hall* constructed. It is named for Professor Emerita of Music, Miriam Andrews. The dormitory complex called Robie-Andrews Halls contains accommodations for 200 resident women students. Andrews Hall also contains classrooms and laboratories of the audio-visual education program.
- 1927—Graduation date of the first class in the *Kindergarten-Primary Program* at Gorham.
- 1931—Construction date of *Russell Hall*, named for the second president at Gorham. It now contains a 500-seat auditorium with stage, workshop facilities, offices for the Theatre-Speech Department, and a small gymnasium for various recreational activities.
- 1938—*Baccalaureate degrees* awarded to the first graduates of a full four-year program at Gorham.
- 1940—Inauguration of *Dr. Francis L. Bailey* as third president at Gorham. He served for 20 years, from 1940 to 1960.
- 1945—*Gorham State Teachers College* adopted as the new name of the Gorham institution.
- 1947—Part of the former Deering Estate purchased as a campus for *Portland Junior College*, which had previously utilized rented quarters. The land purchased forms the nucleus of the present Portland Campus of UMPG.
- The present *University Bookstore Building*, a military war-surplus building, disassembled at its original location, brought by barge to Portland, and reassembled at its present location on the Portland Campus, together with several other buildings which are no longer standing.

- 1955—*Woodward Hall* constructed to provide dormitory accommodations for 96 resident men students. It was named for a former Vice-President of Gorham, Louis B. Woodward.
- 1956—A *Music Education Program*, to prepare supervisors and teachers of music for the public schools, established at Gorham.
- 1957—The *University of Maine in Portland* established by the Maine Legislature, making the former property of Portland Junior College a part of the University of Maine. Until 1961, only the first two years of the academic programs of the University's College of Liberal Arts and College of Education were available, together with the freshman year of several other University of Maine programs.
- 1958—*Dean Luther I. Bonney*, long-time Dean of Portland Junior College, appointed Dean Emeritus by the University of Maine Board of Trustees, retroactive to July 1, 1957.
- Dr. William L. Irvine* appointed Dean of the University of Maine in Portland. He served in this position for three years until 1961.
 - An *Art Education Program*, to prepare supervisors and teachers of art for the public schools, established at Gorham.
 - The *Science Wing of Bailey Hall*, the first unit of the present Bailey Hall complex, constructed at Gorham. It contains classrooms, laboratories, a greenhouse, a science museum, and offices for various physical and biological scientific disciplines.
- 1960—*Payson Smith Hall* constructed at the Portland Campus and named in honor of a prominent Maine educator who had also served with distinction as Commissioner of Education for the Commonwealth of Massachusetts. The lower level contains a large cafeteria, a formal dining room called the College Room, and a small seminar dining room. The main floor now houses the Portland offices for admissions, the registrar, the campus business personnel, student affairs, student aid, testing and counseling, placement, and other services, as well as the Continuing Education Division, the Bureau of Health Professions Education, and the Bureau of University-Community Services. The upper floors contain classrooms; a language laboratory; physics, chemistry, organic chemistry, and geology laboratories; a science lecture hall; the office of the Bureau of Labor Education; and some faculty offices.
- Upton Hall* constructed at Gorham to provide added dormitory and lounge accommodations for women students. The basement now houses the Gorham Campus Bookstore. The building is named for a long-time faculty member, Miss Ethlyn Upton. A second unit, making up the Upton-Hastings complex, was added in 1968.
 - Dr. Kenneth T. H. Brooks* inaugurated as President of Gorham State Teachers College. He served for 10 years, from 1960 to 1970.
- 1961—The merger of *Portland University* and the University of Maine in Portland approved by the Maine Legislature. Portland University had already established a baccalaureate program in Business Administration and a professional School of Law. Following the merger, the latter program was reorganized and developed into the University of Maine School of Law, housed from 1961-72 in the former Portland University building on High Street in downtown Portland. The four-year undergraduate program in Business Administration was moved to the Portland Campus, to become the first four-year program of the University of Maine to be offered in this area. This program has now evolved into the UMPG School of Business and Economics.
- The *Library Wing of Bailey Hall* constructed. The collection of library resources in this building accounts for some 75,000 volumes of nearly 265,000 available to UMPG students in the UMPG collections, almost 12,000 microform items of the UMPG total of some 23,000, nearly 3,500 government documents of the UMPG total of nearly 12,000, and more than 750 periodicals of the total of more than 3,000 UMPG library subscriptions. The library section provides reading areas, conference rooms, a study-smoker, and a music-listening area. The east side of the building contains classrooms, conference rooms, faculty offices, and facilities for closed-circuit television.
 - William L. Whiting* appointed Dean of the University of Maine in Portland. He served in this capacity for four years, from 1961 to 1965.
- 1962—Establishment of the *Continuing Education Division* at the University of Maine in Portland. Under the direction of John M. Blake, former Dean of Portland University, acting as a special assistant to the President of the University of Maine, the previous

evening program of Portland University and the Portland extension courses of the University of Maine were consolidated and expanded into a coordinated program.

- 1963—Construction of *Warren G. Hill Gymnasium* at Gorham. Named for a former Maine Commissioner of Education and graduate of Gorham, the 2,500 seat gymnasium provides facilities for men's and women's physical education, locker rooms, classrooms, and offices for Health Services and Gorham members of the Physical Education Department.
- Anderson Hall* constructed at Gorham. Named for Hayden L. V. Anderson, alumnus of Gorham and former Executive Director of Professional Services for the Maine Department of Education, it contains lounges, study areas, and dormitory accommodations for 100 resident men students.
- 1964—A *Graduate School* established at Gorham.
- 1965—*Gorham State College* adopted as the official name of the institution at Gorham.
- Dr. David R. Fink, Jr.*, appointed Dean of the University of Maine in Portland. After serving as Dean for three years, he was promoted to Provost by the Board of Trustees in 1968, in which position he served until joining the Chancellor's staff in 1970.
- Construction of the *Industrial Education and Technology Center* at Gorham. It contains offices, classrooms, and laboratories for conducting programs in industrial arts and vocational-industrial teacher education, providing facilities to teach concepts in the manufacturing, construction, power-transportation, electrical-electronics, graphic communications, and service industries.
- Dedication of *Luther I. Bonney Hall* at Portland, a five-story building named in honor of the Dean Emeritus of the Portland Campus. The main floor contains academic administrative offices and Luther Bonney Auditorium, a modern, air-conditioned lecture hall seating 250 persons. The upper floors contain classrooms, seminar rooms, faculty offices, and specialized quarters for art studios, choral groups, closed circuit and other instructional television, and other audio-visual aids.
- Opening of the *Library Wing of Bonney Hall* at Portland. The two-story wing at the left of the main entrance of Bonney Hall houses approximately 95,000 volumes of the nearly 265,000 books in the UMPG library collections, some 11,000 microform items of the UMPG total of nearly 23,000, and more than 10,000 government documents of the UMPG total of approximately 13,500. Almost 1,600 periodicals, including many scholarly journals, are regularly received. In addition to plentiful study carrels, four rooms called the Quattro Galleries, containing shifting art exhibits and comfortable furniture, provide facilities for smoking, recreational reading, listening to recorded music, and other functions.
- 1966—A *Secondary Education* program established at Gorham.
- 1967—A baccalaureate program in the *Liberal Arts* established at Gorham.
- 1968—Establishment of Gorham State College as a unit of the University of Maine with the official title of *Gorham State College of the University of Maine*.
- Hastings Hall* constructed at Gorham and named for a long-time faculty member, Miss Mary Hastings. The complex of Upton-Hastings Halls contains lounges and dormitory accommodations for 300 resident women students.
- Acquisition of scattered houses or house lots in the vicinity of Bedford Street and Chamberlain Avenue in Portland to provide quarters for the *Student Union* and various administrative or faculty offices and to enlarge student parking facilities.
- 1969—Opening of the *Portland Campus Gymnasium and Physical Education Building*. The main gymnasium can seat 2,800 spectators. The building also contains offices, classrooms, Health Center offices, examination rooms, a general purpose corrective and adaptive room, a dance room for women, and a small auxiliary gym for a variety of activities. Two squash courts and two handball courts are located in a wing on the lower level behind the main building.
- Opening of the *Science Building* at the Portland Campus. The main tower of the Science Building, six stories high, has facilities for students in the engineering programs, as described in this catalog, on the ground floor; laboratories for the various biological sciences, as well as offices, seminar rooms, and classrooms, on the second, third, and fourth floors; laboratories and other facilities for the courses in psychology on the fifth floor; and quarters for experimental animals, as well as a greenhouse

- for botanical specimens, on the sixth floor. In the two-story wing, the *Southworth Planetarium* is located on the lower and ground-floor levels. The *Portland Computer Center*, ringed about with faculty offices, occupies the second-floor space directly above the *Southworth Planetarium*.
- Rapid increase in the *Baccalaureate Degree programs* offered at the Portland Campus. The facilities offered by the new buildings, coupled with the marked increase in faculty and student body, enabled the University Board of Trustees to authorize, at successive meetings during this period between 1965 and 1970, a number of added programs leading to a baccalaureate degree, with majors in various arts and sciences.
 - Opening of the *Classroom Wing of Bailey Hall* at Gorham. This final unit of Bailey Hall contains a 200-seat multi-purpose lecture hall, a student lounge, classrooms, and academic and faculty offices.
 - Bachelor of Arts* degrees awarded to the first group of candidates completing this new program at Gorham.
- 1970—*Dean Edward S. Godfrey* of the School of Law appointed to serve as Acting Provost of the Portland Campus for the final semester before the administrative formation of the University of Maine at Portland-Gorham on July 1, 1970.
- Dr. William J. MacLeod*, Professor of Philosophy, appointed Acting President of the University of Maine at Portland-Gorham on July 1, 1970. Dr. MacLeod served for one year during the period of administrative merger of the former University of Maine in Portland, the University of Maine School of Law, and Gorham State College of the University of Maine.
 - Dr. Kenneth T. H. Brooks*, former President of Gorham State College of the University of Maine, created University Professor of Education.
 - Opening of the *Dining Center* at the Gorham Campus. It contains a 900-seat dining hall, faculty and Presidential dining rooms, a snack bar, and a student lounge, together with offices and conference rooms for student organizations and activities.
 - Opening of the *Tower Residences* at the Gorham Campus. These twin high-rise student residences provide accommodations for 380, with lounge and study facilities.
- 1971—*Dr. Louis J. P. Calisti* appointed the first President of the University of Maine at Portland-Gorham, effective July 1, 1971. Dr. William J. MacLeod at the same time assumed office as Vice President for Academic Affairs. Dr. Gordon S. Bigelow assumed office as Vice President for Student Affairs.
- Academic reorganization of the University of Maine at Portland-Gorham*, as a single, integrated University, completed at the opening of the academic year in September 1971. Shuttle-bus transportation permitting students to schedule courses on either campus was established at the same time.
- 1972—Moving of the University of Maine School of Law to its new home in the lower three floors of the seven-story School of Law and Advanced Study and Research Center building at 246 Deering Avenue, opposite the Portland Campus.

PERSONNEL of the University of Maine at Portland-Gorham

(Listing for 1972-73, as established on or before June 14, 1972)

EMERITI

- ANDREWS, MIRIAM E. (1922-1960), B.S., M.A., Professor Emerita of Music
BAILEY, FRANCIS L. (1940-1960), B.A., M.A., Ph.D., President Emeritus of
Gorham State College of the University of Maine
BONNEY, LUTHER ISAAC (1957-58), Bates College, B.A., 1906; M.A.
(Hon.), 1951; University of Maine, Sc.D. in Ed., 1959; Dean Emeritus,
University of Maine in Portland
WOOD, ESTHER E. (1930-1972), Colby College, A.B., 1926; Radcliffe Col-
lege, 1929; Associate Professor Emerita of Social Sciences

PERSONNEL

*(The following listing includes both teaching faculty and also
members of the administrative personnel. Dates in paren-
theses indicate the year of initial appointment.)*

- ALBEE, PARKER BISHOP, JR. (1966) Associate Professor of History; Dart-
mouth College, A.B., 1961; Duke University, M.A., 1964; Ph.D., 1968
ALLEN, BRUCE A. (1970) Assistant Professor in Mathematics Education;
Gorham State College, B.S., 1960, M.S. in Ed., 1967
ANDREWS, SAMUEL GEORGE (1966) Associate Professor of Associate
Business Administration; Babson Institute, B.S.B.A., 1964; University of
Maine, M.S., 1966
ANNETT, DONALD ARCHIE (1969) Assistant Professor of Business Admin-
istration; University of New Hampshire, B.S., 1937; New York University,
M.B.A., 1963
ANSPACH, DONALD FREDERICK (1970) Assistant Professor of Sociology;
Franklin and Marshall College, A.B., 1964; Western Reserve University,
M.A., 1966; Case Western Reserve University, Ph.D., 1970
ARMENTROUT, CHARLES EDWIN (1960) Associate Professor of Physics;
University of Maine, B.A., 1955; Wesleyan University, M.A., 1958; Co-
lumbia University, M.S., 1970
AYERS, GEORGE H. (1959) Assistant Professor of Physical Science; Uni-
versity of Maine, B.A., 1951; Ohio State University, M.A., 1959
BAIER, LEE S. (1966) Associate Professor of English; Reed College, A.B.,
1948; Columbia University, M.A., 1952, Ph.D., 1965
BANNER, GERALD T. (1968) Reference Librarian, Portland Campus; New
School for Social Research, B.A., 1965; Pratt Institute, M.L.S., 1967

- BARKER, GEORGE J. (1955) Associate Professor of Biological Science; Gorham State College, B.S., 1951; Boston University, Ed.M., 1958
- BATCHELOR, HELEN (1972) Coordinator of Equal Employment Opportunity; University of Alabama, B.A., 1944; Syracuse University, M.A., 1954; Ph.D., 1967
- BAY, JOHN WILLIAM (1965) Dean of the School of Business and Economics; Associate Professor of Business and Economics; Saint Ambrose College, B.A., 1961; Boston College, M.A., 1964; Ph.D., 1966
- BEARCE, JEANA DALE (1965) Associate Professor of Art; Washington University, B.F.A., 1951; New Mexico Highlands University, M.A., 1954 (On leave 1972-73)
- BELLONE, ROSEMARY (1972) Instructor in Nursing; Virginia Commonwealth University, B.S.N., 1970; Catholic University of America, M.S.N., 1971
- BEMIS, A. NYE (1970) Center Director of Continuing Education and Summer Session, Gorham Campus, and Instructor in Education; Gorham State College, B.S., 1964; M.S., 1969
- BERNARD, JULES EUGENE (1963) Professor of English; Yale, B.A., 1934; M.A., 1936; Ph.D., 1937
- BERRY, ARTHUR O. (1955) Director of Vocational Industrial Education and Professor of Metals Technology; Gorham State College, B.S., 1950; Pennsylvania State University, Ed.M., 1954; University of Connecticut, Ph.D., 1967
- BIBBER, JOYCE K. (1967) Associate Professor of History; Westbrook Junior College, A.A., 1956; Barnard College, B.A., 1958; Stanford University, M.A., 1962; Ph.D., 1969
- BIEN, LEON J. (1970) Assistant Professor of Economics and Chairman, Department of Economics; Boston College, B.A., 1966; Michigan State University, M.A., 1970
- BIGELOW, GORDON S. (1971) Vice President for Educational Services; Brown University, A.B., 1954; University of Maine, Ed.M., 1962; Brigham Young University, A.M., Ph.D., 1967
- BISHOP, JOHN SCOTT (1968) Associate Professor of Psychology; University of New Brunswick, B.A., 1953; Dalhousie University, M.A., 1957; University of London, Ph.D., 1958
- BONNEY, JAMES H. (1970) Lecturer, School of Law; Bowdoin College, A.B., 1948; University of Vermont, M.D., 1953; University of Maine, J.D., 1967
- BOUCHARD, JOEY A. (1968) Assistant Professor of Physical Education; Springfield College, B.S., 1960, M.Ed., 1961; Boston University, C.A.S., 1968
- BOUCHARD, KATHLEEN M. (1969) Associate Dean of Student Life; Western Michigan University, B.A., 1966; Indiana University, M.S., 1969
- BOWDER, JERRY L. (1960) Professor of Music; University of Washington, B.A., 1952; Lewis and Clark College, M.M., 1956; Eastman School of Music, Ph.D., 1960
- BOWMAN, JAMES A. (1949) Associate Professor of Educational Psychology; Gorham State College, B.S., 1947; Boston University, Ed.M., 1951
- BRADBARD, DAVID A. (1969) Instructor in Mathematics; University of New Hampshire, B.S., 1964, M.S., 1969 (On leave 1972-73)
- BRADY, JAMES B. (1969) Technical Services Librarian, Gorham Campus; State University of New York at Albany, B.S., 1967, M.L.S., 1969 (On leave 1972-73)
- BRETON, LILLETTE CAMILLE (1969) Assistant Professor of Physical Education; University of Maine, B.S., 1965, M.S., 1968; University of Maine at Orono, C.A.S., 1972

- BRIGGS, WAYNE F. (1965) Accountant
- BROOKS, KENNETH T.H. (1959) University Professor of Education; University of New Hampshire, A.B., 1947; Boston University, Ed.M., 1948; Ed.D., 1955
- BROWN, ELECTA M. (1943) Bursar; Shaw's Business College, 1926
- BROWN, HAROLD F. (1972) Professor of Music and Chairman, Music Department; Colby College, A.B., 1935; Westminster Choir College, B.Mus., 1938; Harvard University, A.M., Music, 1942; Michigan State University, Ph.D., Music Education 1968
- BROWN, WILLIAM ALLEN (1960) Associate Professor of Mathematics; Bowdoin, B.A., 1954; University of Maine, M.A., 1959
- BULLOCK, WILLIAM B. (1970) Business Manager; Cornell University, B.S., 1954; M.B.A., 1959
- BURKE, L. MORRILL, JR. (1959) Associate Professor of English; Bowdoin, A.B., 1949; University of Washington, M.A., 1951; Columbia University, Ph.D., 1971
- CALISTI, LOUIS J. P. (1971) President; Rutgers University, B.S., 1945; University of Pennsylvania, D.D.S., 1949; Harvard University School of Public Health, M.P.H., 1960
- CAMPBELL, THEODORE R. (1968) Director of Plant
- CANNON, DONALD QUAYLE (1967) Associate Professor of History; University of Utah, B.A., 1961; M.A., 1962; Clark University, Ph.D., 1967
- CARNER, FRANK K. (1970) Assistant Professor of English; Temple University, B.S. in Ed., 1964, M.A., 1967
- CARPER, THOMAS R. (1967-69) (1970) Assistant Professor of English; Harvard University, A.B., 1958; New York University, M.A., 1967 (On leave 1972-73)
- CARTER, RICHARD H. (1964) Assistant Professor of Industrial Arts; Gorham State College, B.S., 1954; University of Maine, Ed.M., 1964; Boston University, C.A.S., 1971
- CHABOT, MAURICE JOSEPH (1965) Assistant Professor of Mathematics; University of Maine, B.A., 1961; Bowdoin College, M.A., 1965
- CHAMBERLAND, GERARD G. (1957) Associate Professor of Music; Boston University, B. of Mus., 1950, M.M., 1956
- CHANDLER, JOSEPH (1968-69) (1970) Assistant Professor of Business and Economics; Bowdoin College, A.B., 1942; University of Maine, M.B.A., 1967; University of New Hampshire, M.A. in Economics, 1971
- CHENEY, PHILIP D. (1971) Assistant Registrar — Scheduling; University of Maine at Orono, B.A., 1968; M.Ed., 1971
- CHRONISTER, FLOYD BROWN (1966) Associate Professor of Education; Conservatory of Music of U.M.K.C., Missouri, B.M., 1953; University of Kansas, B.M.E., 1955; M.M.E., 1959; Ed.D., 1969
- CLARK, ELMER BANKS FRED (1946) Associate Professor of French and Spanish; University of Florida, B.A.E., 1935; M.A., 1937
- COBB, MERRILL E. (1966) Professor of Education and Chairman, Department of Secondary Education; University of Maine, B.S., 1949, Ed.M., 1953; University of Massachusetts, Ed.D., 1968
- COFFIN, RICHARD NEAL (1964) Associate Professor of English; Bowdoin College, B.A., 1951; Harvard University, A.M., 1952; Boston University, Ph.D., 1962
- COGGESHALL, JUDITH ANN (1971) Instructor in Nursing; Augustana College, B.S.N., 1966; Boston University, M.S. 1971
- COLE, PHILLIP ALBERT (1957) Professor of History and Chairman, Department of History; Boston University, B.S., 1954; M.A., 1955; Ph.D., 1963

- COLE, RONALD F. (1963) Assistant Professor of Music; Bowdoin College, B.A., 1961; Eastman School of Music, M.A., 1963
- COLUCCI, NICHOLAS DOMINIC, JR. (1969) Assistant Professor of Education; Gorham State College, B.S., 1963; University of Connecticut, M.A., 1964; Ph.D., 1969
- CONNICK, GEORGE PERCY (1966) Director of Academic Planning and Institutional Research, and Associate Professor of History; Stanford University, B.A., 1957; San Jose State College, M.A., 1960; University of Colorado, Ph.D., 1969
- COOGAN, WILLIAM H. III (1972) Assistant Professor of Political Science; Boston College, B.A., 1963; Rutgers University, M.A., 1964; University of North Carolina, Ph.D., 1971
- COSTELLO, MELISSA H. (1953) Associate Professor of Education and Chairman, Department of Elementary Education; Gorham State College, B.S., 1952; University of Maine, Ed.M., 1957; C.A.S., 1960
- COSTELLO, RICHARD A. (1953) Director of Athletics and Professor of Health and Physical Education; University of Alabama, B.S., 1952; University of Illinois, M.S., 1953; Springfield College, D.P.E., 1965
- COTTON, JEAN (1967) Associate Professor of Nursing and Chairman, Department of Psychiatric Nursing; Simmons College, B.S., 1960; Boston University, M.S., 1962
- CROCHET, MONIQUE Y. (1970) Assistant Professor of French; University of Paris, Sorbonne, B.A., 1959, M.A., 1960, M.A.T., 1960, Ph.D., 1969
- DAHLSTROM, DONALD LEE (1971) Director of Criminal Justice Program; Assistant Professor of Political Science; American University, B.S., 1965; Washington State University, M.A., 1969
- DALVET, YVES FRANCOIS (1968) Associate Professor of French and Chairman, Department of Foreign Languages and Classics; Laval College, B.A., 1940; New York University, M.A., 1965; Yale University, M.Ph., 1969
- DAVIS, EVERETT A. (1966) Assistant Professor of Educational Media; Gorham State College, B.S., 1961; Indiana University, M.S.Ed., 1966; Ed.S., 1972
- DELOGU, ORLANDO E. (1966) Professor of Law, School of Law; University of Utah, B.S., 1960; University of Wisconsin, M.S., 1963, J.D., 1966
- DI BENEDETTO, LUCIA A. (1970) Instructor in French; Emmanuel College, B.A., 1963; Middlebury College, M.A., 1965
- DICKEY, EDNA F. (1946) Associate Professor of History; University of New Hampshire, B.A., 1933, M.A., 1936
- DIETRICH, CRAIG (1968) Assistant Professor of History; University of Chicago, A.B., 1961; Ph.D., 1970
- DORSEY, F. DONALD, JR. (1967) Assistant Professor of Biology; Bowdoin College, A.B., 1950; Syracuse University, M.S., 1960; Simmons College, M.S., 1964
- DUBOWICK, DOROTHY BUNKER (1968) Instructor in Nursing; Colby College, A.B., 1948; University of Maine at Portland-Gorham, M.S., 1971
- DUCLOS, ALBERT JOSEPH (1965) Assistant Professor of Speech; University of Maine, B.S., 1963; M.A., 1965
- DUCLOS, GLORIA SHAW (1962) Associate Professor of Classics; Radcliffe, A.B., 1949; M.A., 1953; Oxford University, B.A., 1951; M.A., 1955
- DURGIN, FRANK ALBERT, JR. (1964) Professor of Business and Economics; Tufts University, B.A., 1949; University of Toulouse, France, Licence en Droit, 1954; Docteur en Droit, 1956

- DUVAL, MARJORIE ANN (1962) University Archivist and Associate Professor of Library Service; New England Conservatory of Music, B. Mus., 1945; Simmons College, M.S., 1962
- EASTMAN, JOEL WEBB (1970) Assistant Professor of History; University of Maine at Orono, B.A., 1962; M.A., 1965
- EDGECOMB, ALICE DYER (1969) Extension Agent (Cumberland County), Cooperative Extension Service; Farmington State College, B.S., 1965; Gorham State College, M.S., 1968
- EDWARDS, MARY JORDAN (1966) Instructor in Nursing; Cornell, B.S., 1952
- EELLS, MARY ANN (1969) Dean of University of Maine School of Nursing and Associate Professor of Nursing; State University of New York, B.S., 1955; University of Rochester, M.S., 1968; Ed.D., 1970
- EMANUELSON, MILLARD E. (1966) Lecturer in Business Administration; Colby, B.S., 1936; Boston University, LL.B., 1951
- EMERSON, HORTON W., JR., (1962) Professor of History; Colby College, A.B., 1949; Yale University, Ph.D., 1957
- EMERY, VIRGINIA L. (1966) Administrative Assistant to the President, Shaw's Business College, 1938
- ESTES, ROBERT A. (1966) Professor of Mathematics; Bowdoin College, A.B., 1958; University of Kansas, M.A., 1961; University of Michigan, Ph.D., 1970 (On leave Spring Semester 1973)
- FARRAR, JOHN NORTH (1966) Assistant Director for Counseling, Continuing Education and Summer Session; University of Maine, B.A., 1951; M.Ed., 1958; C.A.S., 1962
- FAULKNER, HOWARD M. (1970) Associate Professor of Graphics; Massachusetts State College at Fitchburg, B.S. in Ed., 1957; Northeastern University, M.Ed., 1960
- FEIG, KONNILYN G. (1972) Dean, College of Liberal Arts and Associate Professor of History; University of Montana, B.S., 1958; B.A., 1959; M.A., 1963; University of Washington, Ph.D., 1969
- FELDMAN, STEPHEN R. (1972) Associate Professor of Law, School of Law; Duke University, A.B., 1959; Fordham University School of Law, LL.B., 1965; Harvard University Law School, LL.M., 1972
- FICKETT, REGINALD N. (1964) Associate Professor of Education; Gorham State College, B.S., 1958; University of Maine, Ed.M., 1960, C.A.S., 1968
- FINDLAY, ROBERT WALKER (1967) Professor of Accounting and Chairman, Baccalaureate Program in Business Administration; Boston University, B.S., 1955; M.B.A., 1964; C.P.A. (Massachusetts and Maine)
- FISH, CAROLYN WELCH (1968) Assistant Professor of Nursing; Boston University School of Nursing, B.S., 1964; University of North Carolina, M.P.H., 1967
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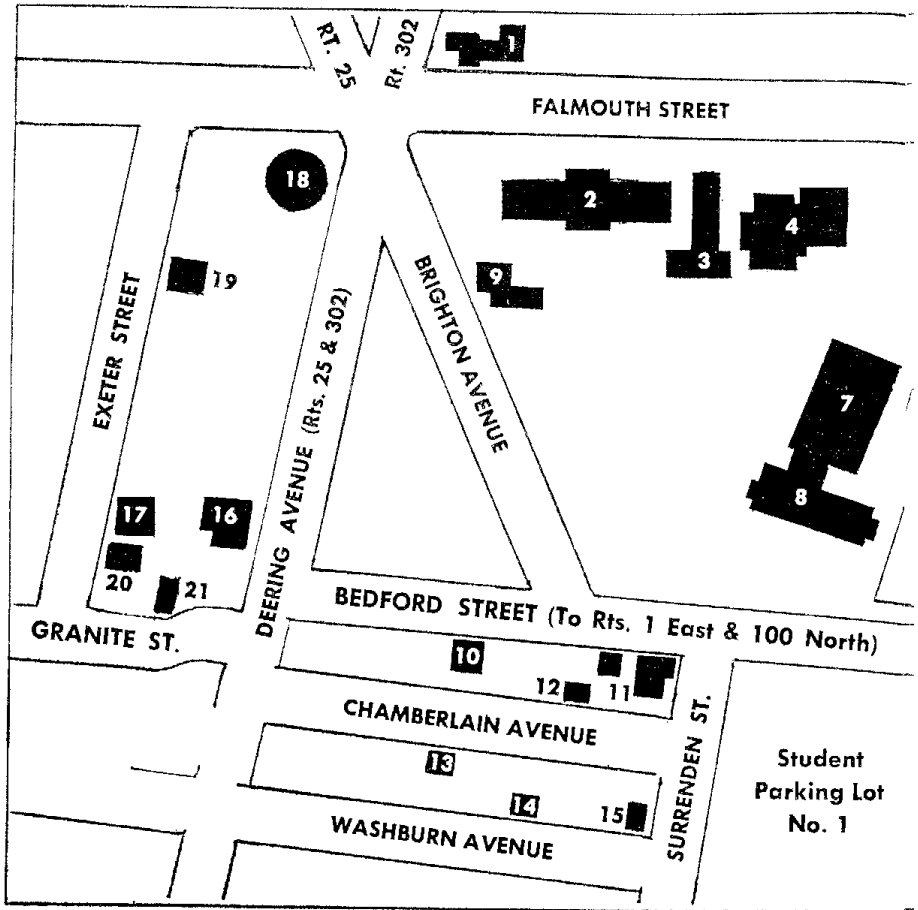
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- STEARNS, GENE F. (1972) Professor of Education and Director of Student Teaching, Elementary Education; Plymouth State College, B.Ed., 1962; University of New Hampshire, M.Ed., 1968; Ball State University, Ed.D., 1970

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- STEINMAN, RICHARD (1966) Associate Professor of Social Welfare; University of Missouri, B.A., 1949; Columbia University, M.S., 1952; Brandeis University, Ph.D., 1968
- STONE, JUDITH THELMA (1968) Assistant Professor of Nursing and Chairman, Department of Advanced Medical-Surgical Nursing; University of Maine, B.S., 1964; University of Pennsylvania, M.S.N., 1966
- STUMP, WALTER R. (1968) Associate Professor of Speech and Theater; San Diego State College, B.A., 1959, M.A., 1960
- STURGEON, RICHARD HOWARD (1962) Associate Professor of Education, Coach of Basketball and Baseball; Maine, B.S., 1960; M.Ed., 1966
- SULLIVAN, DAVID T. (1972) Associate Registrar; Tufts University, B.A., 1966
- SULLIVAN, JAMES VINCENT (1959) Professor of Physical Education and Chairman, Department of Physical Education; University of Maine, B.S. in Ed., 1951; University of Delaware, M.Ed., 1954; Boston University, Ed.D., 1971
- SULLIVAN, JEROME H. (1966) Assistant to the Vice President for Educational Services and Associate Dean of Student Services; Arizona State University, B.S. 1963; University of Maine at Portland-Gorham, M.B.A., 1971
- TALBOT, FRANKLIN (1963) Assistant Librarian, Portland Campus, and Associate Professor of Library Service; University of Maine, B.A., 1946; Columbia University, M.S., 1949
- TALBOT, JEANNE GEORGIANNA (1968) Assistant Professor of Nursing and Chairman, Department of Medical-Surgical Nursing; Boston College, B.S., 1964; M.S., 1967
- TAYLOR, LAWRENCE A. (1968) Assistant Professor of Business Administration; University of Maine, B.S., 1967; M.B.A., 1968
- THAYER, RICHARD L., JR. (1972) Assistant Professor of Political Science; University of Maine, A.A., 1959; Michigan State University, B.S., 1967; University of Maine, M.P.A., 1972; M.Ed., 1972
- THOMAS, DON P. (1968) Instructor in Physical Education; Keystone Junior College, A.A., 1956; East Stroudsburg State College, B.S., 1958; M.Ed., 1967
- TREMPER, MELVIN HENRY (1971) Instructor in Sociology; Temple University, B.A., 1966; Rutgers University, M.A., 1968
- TRYON, PHYLLIS ARLEEN (1965) Associate Professor of Nursing and Chairman, Department of Maternal and Child Health Nursing; Boston University, B.S., 1958; Yale University, M.S.N. and C.N.M., 1962 (On leave 1972-73)
- TUKEY, GERALDINE M. (1970) Instructor in Nursing; Mercy College of Detroit, B.S., 1957; Boston University, M.S., 1964
- UBANS, JURIS K. (1968) Assistant Professor of Art; Syracuse University, B.F.A., 1966; The Pennsylvania State University, M.F.A., 1968
- UBANS, MARA (1970) Assistant Professor of German; Indiana University, A.B., 1960; University of Southern California, M.A., 1962
- UN, CHONG KWAN (1969) Assistant Professor of Electrical Engineering; University of Delaware, B.E.E., 1964; M.E.E., 1966; Ph.D., 1969
- VAN AMBURG, GEORGE EDWARD (1960) Student Advisor and Coordinator of Union Facilities; Portland University, B.S., 1956
- VAN HEMEL, PAUL E. (1970) Assistant Professor of Psychology; Hobart College, B.S., 1965; Johns Hopkins University, M.A., 1967; Ph.D., 1970
- VENTRESCO, FIORELLO B. (1966) Assistant Professor of History; Boston University, A.B., 1959; University of Michigan, M.A., 1961

- VINCENT, STANLEY J. (1959) Assistant Professor of English; Boston University, B.A. 1949; Columbia University Teachers College, M.A., 1950 (On leave 1972-73)
- WAKELIN, EDMUND F. (1963) District Recreation Specialist, Cooperative Extension Service; Dartmouth, B.A., 1939
- WALKER, PAUL R. (1970) Assistant Professor of Reading; Boston College, A.B., 1960; Gorham State College, M.S. in Ed., 1967; University of Maine, Ed.D., 1970
- WALKLING, ROBERT A. (1969) Associate Professor of Physics; Swarthmore College, B.A., 1953; Harvard University, M.S., 1954; Ph.D., 1962
- WARREN, WILLIAM C. (1966) Assistant Professor of Wood Technology; Gorham State College, B.S., 1959; University of Maryland, M.A., 1967
- WATERS, HARRY JOSEPH (1963) Professor of Business and Economics; Hofstra College, B.B.A., 1954; New York University, M.B.A., 1955; Ph.D., 1964
- WEEKS, ERNEST E. (1967) Professor of English; Bowdoin College, A.B., 1939; Tufts University, M.A., 1949; Columbia University, Ph.D., 1965
- WHITING, WILLIAM LAWRENCE (1947) Associate Professor of Speech and Associate Dean, College of Liberal Arts; University of Maine, B.A., 1937; Bates College, M.Ed., 1948; Northwestern University, M.A., 1954
- WHITMORE, ALLAN RICHARD (1969) Associate Professor of History; Maine, B.A., 1962; Northwestern University, M.A., 1964; Ph.D., 1970
- WHITTEN, JAMES M. (1951) Associate Professor of Philosophy of Education and Chairman, Department of Foundations; Colby College, A.B., 1944; University of Maine, A.M., 1955
- WHITTEN, MAURICE M. (1955) Professor of Physical Science; Colby College, A.B., 1945; Columbia University, M.A., 1949; Ohio State University, Ph.D., 1971 (On leave Fall Semester 1972)
- WILLARD, NANCY LEE (1969) Assistant Professor of Physical Education; Russell Sage College, B.S., 1958; State University College, Plattsburg, N.Y., M.S. in Ed., 1967
- WILSON, NEVILLE (1968) Director of School of General and Interdisciplinary Studies and Assistant Professor of English; Tufts University, B.A., 1965
- WISE, WILLIAM B. (1966) Assistant to the Vice President for Academic Affairs; University of Maine, B.S., 1961; University of Maine at Orono, M.Ed., 1971
- WITHERILL, ROBERT D. (1966) Associate Professor of Economics; Colby College, A.B., 1947; University of Maine, M.A., 1953, M.Ed., 1962
- WOLF, BARBARA BUCKLEY (1969) Assistant Professor of English; Grinnell College, B.A., 1946; State University of New York (Albany), M.A., 1967
- WOSHINSKY, OLIVER H. (1971) Assistant Professor of Political Science; Oberlin College, B.A., 1961; Yale University, M.A., 1967; M.Phil., 1968; Ph.D., 1971
- WROTH, L. KINVIN (1964) Professor of Law, School of Law; Yale University, A.B., 1954; Harvard University, LL.B., 1960
- YORK, ROBERT M. (1962) Dean of Graduate Studies; Professor of History; Bates College, A.B., 1937; Clark University, M.A., 1938; Ph.D., 1941
- YOUNG, ANNE P. (1965) Professor of History; Boston University, B.S. 1943, M.A., 1944; University of Chicago, Ph.D., 1951
- YOUNG, ROSALIE M. (1968) Information Specialist; University of Maine in Portland, B.A., 1968

UNIVERSITY OF MAINE *at Portland-Gorham*



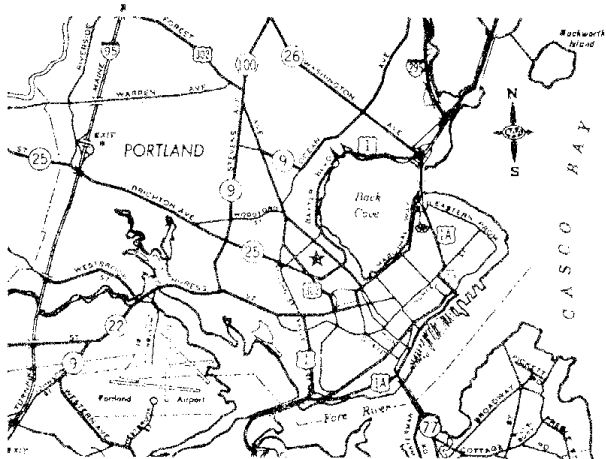
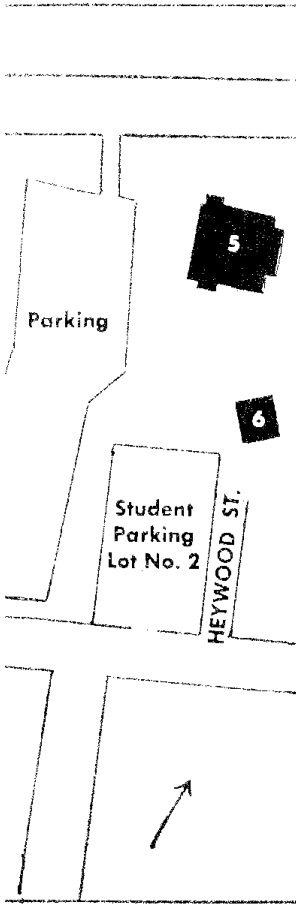
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- | | |
|--|---------------------------|
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| 2. Admissions | 4. Planetarium |
| 10. Alumni | 10. Public Information |
| 2. Business Manager | 2. Registrar |
| 4. Computer Center | 2. Student Affairs |
| 2. Continuing Education Division | 2. Student Aid |
| 12. Cooperative Extension Service | 11. Student Publications |
| 10. Educational TV | 2. Testing and Counseling |
| 5. Health Office | 14. Trigon |

the Portland campus

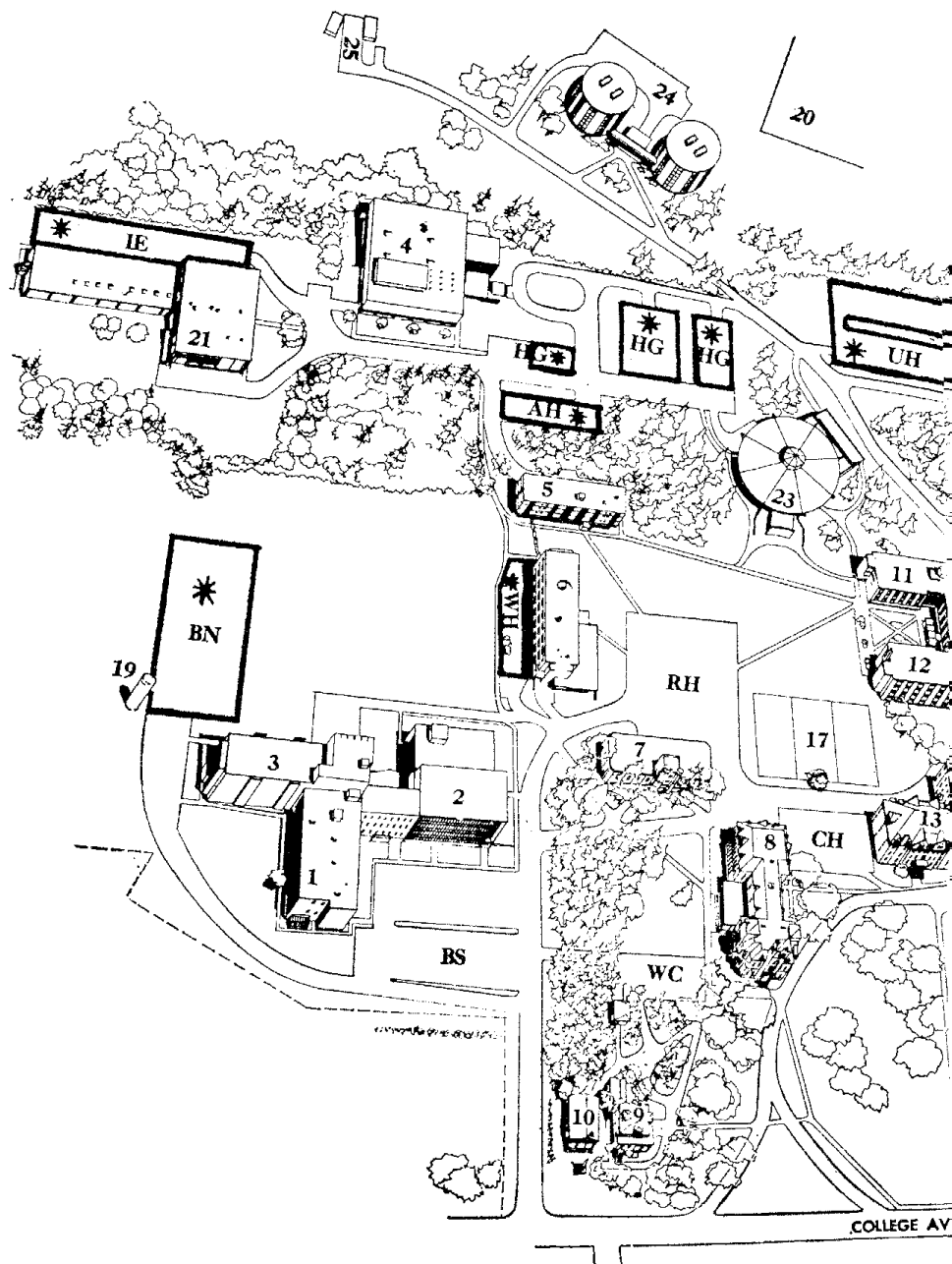
BUILDINGS

1. Residence of Dean of the Law School
2. Payson Smith Hall
3. Bookstore
4. Science Building
5. Physical Education Building
6. Central Heating Plant
7. Library
8. Luther Bonney Hall
9. Faculty Offices
10. Public Information and Development
11. Student Union Buildings
12. Cooperative Extension Service
13. Faculty Offices
14. Faculty Offices
15. Faculty Offices
16. Chancellor's Office
17. Academic Affairs and Director of Finance and Administration
18. Law School and Center for Research and Advanced Study (under construction)
19. Faculty Offices
20. Faculty Offices
21. Faculty Offices



★ Location of the Portland campus

UNIVERSITY OF MAINE *at Portland-Gorham*



the Gorham campus

STUDENT PARKING LOTS

*indicates student parking lots, which are outlined by heavy borders on this map. From left to right, these are:

IE — Industrial Education Center
 BN — Bailey Hall North
 HG — Hill Gymnasium (outlined areas only)
 AH — Anderson Hall
 WH — Woodward Hall
 UH — Upton Hall
 HH — Hastings Hall
 MH — McLellan House
 SS — School Street

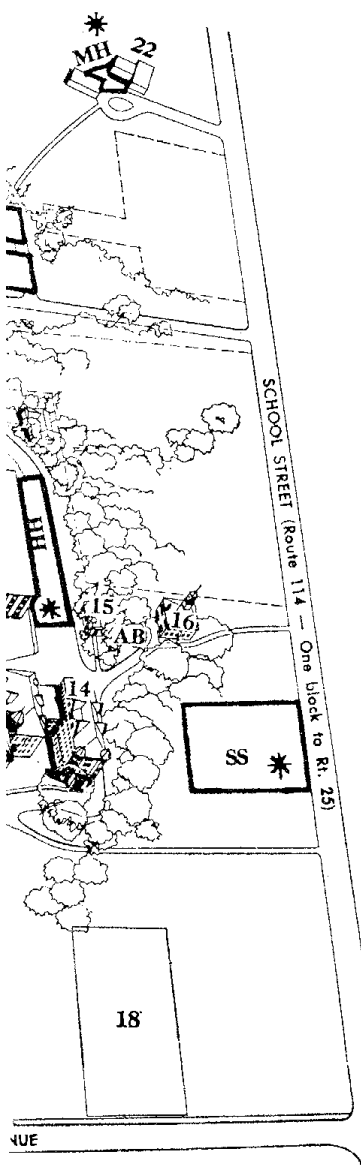
After 4:00 p.m. students may park in the southern half of the BS faculty parking lot or the RH faculty-staff parking lot. These lots must be restricted at other hours.

Lightly outlined parking areas coded RH and CH are for faculty and staff only; the BS area is for faculty only. Small areas restricted to faculty-staff parking are also provided close to the gymnasium, the Industrial Education building, and the Art Building.

Ten-minute parking for visitors is provided west of Corthell (WC), west of the Hill Gymnasium, near the entrance of the Bailey Library, and by the tennis courts.

Buildings:

1. Bailey Hall — Science Wing
2. Bailey Hall — Library Wing
3. Bailey Hall — Classroom Wing
4. Warren G. Hill Gymnasium
5. Anderson Hall
6. Woodward Hall
7. Russell Hall
8. Corthell Hall
9. President's Residence
10. All Faith Chapel — Art Gallery
11. Upton Hall
12. Hastings Hall
13. Robie Hall
14. Andrews Hall
15. Maintenance Building
16. Art Building (Academy)
- 17.-18. Tennis Courts
19. Water Tower
20. Athletic Field
21. Industrial Education Center
22. McLellan House
23. New Dining Center
24. Residence Towers
25. Heating and Sewage Plants



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**THE PHYSICAL EDUCATION REQUIREMENTS
FOR UNDERGRADUATE STUDENTS AT U.M.P.G.**

(As revised on September 23, 1971)

The Physical Education Requirement of UMPG requires every freshman and transfer undergraduate student of either sex to satisfy the University's requirement of one year of physical education, unless excused in writing by the dean of his school or college on the basis of one or more of the following exemption criteria:

1. A student entitled to veteran's benefits.
2. A student who will be 30 years of age or over upon graduating.
3. A student who has a written medical excuse from the UMPG Health Service.
4. A student enrolled in CED and not matriculated in the day program. However, if a student changes from CED status to day-college status, the Physical Education requirements must be completed unless other exemptions are applicable.
5. Academic deans may waive the Physical Education requirements for other reasons reflecting unusual circumstances.

A carbon copy of the letter exempting the student will be sent to the student, to his faculty advisor, and to the registrar.

