

1901/02

# **general information**

**UNIVERSITY OF MASSACHUSETTS**

**University  
of  
Massachusetts  
Bulletin**

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University  
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General Information  
Bulletin

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## FOREWORD

The General Information Bulletin has been prepared for the prospective undergraduate to acquaint the student with all phases of the University of Massachusetts.

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AUGUST, 1961

NUMBER III

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# CALENDAR

1961

## September

- 13 — Wednesday. Registration.
- 14 — Thursday. Classes begin at 8 a.m.

## November

- 4 — Saturday. Mid-semester marks close.
- 11 — Saturday. Veterans' Day. No classes.
- 21 — Tuesday. Thanksgiving recess begins after last class.
- 27 — Monday. Classes resume at 8 a.m.

## December

- 7 — Thursday. Counseling Day. No undergraduate classes.
- 19 — Tuesday. Christmas recess begins after last class.

1962

## January

- 3 — Wednesday. Classes resume at 8 a.m.
- 13 — Saturday. Last day of class meetings.
- 15 — Monday. Final examinations begin at 8 a.m.
- 23 — Tuesday. Final examinations end at 5 p.m.

## February

- 1 — Thursday. Registration.
- 2 — Friday. Classes begin at 8 a.m.

## March

- 24 — Saturday. Mid-semester marks close. Spring recess begins after last class.

## April

- 2 — Monday. Classes resume at 8 a.m.

## May

- 1 — Tuesday. Counseling Day. No undergraduate classes.
- 10 — Thursday. Honors Day.
- 22 — Tuesday. Last day of class meetings.
- 24 — Thursday. Final examinations begin at 8 a.m.

## June

- 2 — Saturday. Final examinations end at 5 p.m.
- 10 — Sunday. Commencement.

**Correspondence regarding various phases of the  
University program should be directed as follows:**

Academic Affairs

GILBERT L. WOODSIDE, *Provost*

Admission, Registration and Transcripts

MARSHALL O. LANPHEAR, *Registrar*

Expenses, Payments

KENNETH JOHNSON, *Treasurer*

Extra-Curricular Activities

WILLIAM D. SCOTT, *Director, Student Union*

Four College Cooperation

GILBERT L. WOODSIDE, *Provost*

Graduate School

GILBERT L. WOODSIDE, *Acting Dean*

Housing

HERBERT A. RANDOLPH, *Housing Supervisor*

Loans and Scholarships

DAVID LAWRENCE, *Assistant Director of Placement*  
—Men

Men's Affairs

ROBERT S. HOPKINS, *Dean of Men*

Publications, News

WILLIAM DEMINOFF, *Director of Publications and*  
*News Editor*

Short Courses

FRED P. JEFFREY, *Associate Dean, College of Agri-*  
*culture*

Stockbridge School of Agriculture

FRED P. JEFFREY, *Director*

Student Affairs

WILLIAM F. FIELD, *Dean of Students*

Student Employment

ROBERT J. MORRISSEY, *Director of Placement*  
GEORGE E. EMERY, *Placement Officer*

Summer Sessions

OFFICE OF THE PROVOST

Veterans' Affairs

GEORGE E. EMERY, *Veterans' Coordinator*

Women's Affairs

HELEN S. CURTIS, *Dean of Women*

## BOARD OF TRUSTEES

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PHILIP FERRY WHITMORE, B.S. (University of Massachusetts), Sunderland	1962
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JOSEPH P. HEALEY, A.B. (Harvard University), M.B.A. (Harvard Business School), LL.B. (Harvard Law School), Arlington	1963
ALDEN CHASE BRETT, B.S., LL.D. (University of Massachusetts), Belmont	1964
ERNEST HOFTYZER, B.S. (Ohio State University), Marion	1964
J. JOHN FOX, LL.B. (Boston University), Boston	1965
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DENNIS MICHAEL CROWLEY, B.S., M.S. (University of Massachusetts), LL.B. (Boston College), Boston	1966
MRS. KATHRYN FORAN FURCOLO (Elmira College), (Northeastern Law School), Chestnut Hill	1966
FRANK LEAROYD BOYDEN, A.B., A.M. (Amherst College), A.M. (Williams College, Yale University), sc.D. (Colgate University), PH.D. (New York State College for Teachers), LL.D. (Wesleyan University, Bowdoin College, Kenyon College, Harvard University, University of Massachusetts), L.H.D. (Amherst College, Williams College, Princeton University), LITT.D. (Tufts College), Deerfield	1967
GEORGE L. PUMPHRET, Dorchester	1967
HARRY DUNLAP BROWN, B.S. (University of Massachusetts), Harbor Coves, North Chatham	1968
JOHN WILLIAM HAIGIS, JR., B.A. (Amherst College), Greenfield	1968



## Members Ex Officio

HIS EXCELLENCY JOHN A. VOLPE, D. ENG. (Northeastern University),  
L.H.D. (St. Michael's College), Boston, *Governor of the Commonwealth.*

JOHN WILLIAM LEDERLE, A.B., A.M., LL.B., PH.D. (University of Michigan),  
*President of the University.*

OWEN B. KIERNAN, B.S. (Bridgewater State Teachers College), ED.M.  
(Boston University), ED.D. (Harvard University), *Commissioner of Education.*

CHARLES HENRY MCNAMARA, *Commissioner of Agriculture.*

## Officers of the Board

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ROBERT JOHN DOOLAN, B.S., M.S. (New York State College of Education at Albany), *Assistant Secretary.*

KENNETH WILLIAM JOHNSON, B.S. (University of Vermont), Amherst, *Treasurer.*

## OFFICERS OF ADMINISTRATION

<b>Provost</b>	GILBERT LLEWELLYN WOODSIDE	South College
<b>Assistant Secretary</b>	ROBERT J. DOOLAN	South College
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<b>Dean of Men</b>	ROBERT STODDART HOPKINS, JR.	South College
<b>Dean of Women</b>	HELEN CURTIS	South College
<b>Director of Publications and News Editor</b>	WILLIAM DEMINOFF	South College
<b>Director of Experiment Station</b>	ARLESS A. SPIELMAN	Stockbridge Hall
<b>Director of Extension Service</b>	ARLESS A. SPIELMAN	Stockbridge Hall
<b>Director of Stockbridge School</b>	FRED PAINTER JEFFREY	Stockbridge Hall
<b>Director of Health Services</b>	ROBERT W. GAGE, M.D.	Infirmery
<b>Director of Placement</b>	ROBERT J. MORRISSEY	South College
<b>Alumni Secretary</b>	EVAN V. JOHNSTON	Memorial Hall
<b>Student Union Director</b>	WILLIAM DAVID SCOTT	Student Union

# UNDERGRADUATE MAJORS

## College of Arts and Sciences

Art	Music
Astronomy (Four College Cooperation Program)	Philosophy
Bacteriology	Physics
Botany	Pre-Dental
Chemistry	Pre-Medical
Economics	Pre-Veterinary
English	Psychology
Geology	Public Health
German	Romance Languages
Government	Russian
History	Sociology and Anthropology
Journalism	Speech
Mathematics	Zoology

## College of Agriculture

Agricultural Business	Food Technology
Agricultural Engineering	Forestry
Agronomy	Landscape Architecture
Animal Science	Olericulture
Dairy Technology	Plant Pathology
Entomology	Pomology
Floriculture	Poultry Science
Food Distribution	Wildlife Management
Food Management	

## School of Business Administration

Accounting	Personnel Management and Industrial Relations
General Business	Production Management
Business Administration and Economics	Marketing
Finance	Merchandising
General Management	

## School of Education

Education	Elementary Education
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## UNDERGRADUATE MAJORS

### School of Engineering

Chemical Engineering

Civil Engineering

Electrical Engineering

Industrial Engineering

Mechanical Engineering

### School of Home Economics

Child Growth and Development

Foods, Nutrition and Institutional Administration

Pre-Research in Foods and Nutrition

Home Economics Education and Extension

Merchandising

### School of Nursing

General Nursing

### School of Physical Education

Physical Education for Men

Physical Education for Women

Recreation Leadership

## *General Information*

**T**HE UNIVERSITY OF MASSACHUSETTS is the state university of the Commonwealth, founded in 1863 under provisions of the Morrill Land Grant Act passed by the United States Congress one year earlier.

Presently preparing for the observance of its Centennial, the University is a member of the great community of Land Grant colleges and state universities serving the nation as principal resources of higher education for the country's citizenry. Incorporated as the Massachusetts Agricultural College in April, 1863, the institution was formally opened to a handful of students in 1867. Rooted in the liberal arts tradition (its early presidents were graduates of such colleges as Dartmouth, Williams, Amherst, and Harvard), it has grown steadily from the four teachers and four wooden structures available for its opening session. Reflecting the broadening interests of its students, the General Court of Massachusetts authorized a second name, Massachusetts State College, in April, 1931. Sixteen years later, in May, 1947, the institution became the University of Massachusetts.

Situated in one of the most picturesque sections of the state, the University joins with its academic neighbors—Amherst, Smith, and Mount Holyoke Colleges—in maintaining the rich tradition of educational and cultural activity associated with this Connecticut Valley region. The University's central campus consists of approximately 700 acres of land and 80 buildings. Physical growth has been carefully planned, with provisions for additional buildings and facilities to accommodate an enrollment of approximately 10,000 students within the next decade. Offering a comprehensive program of instruction and research, the University is thus the Commonwealth's major resource of public higher education dedicated to the preservation and continued development of the country's free institutions.

### **BRANCHES OF INSTRUCTION**

#### **The Undergraduate College**

The University offers four-year undergraduate instruction leading to the following degrees: Bachelor of Science, Bachelor of Arts, Bachelor of Science in Chemical, Civil, Electrical and Mechanical Engineering, Bachelor of Business Administration and Bachelor of Vocational Agriculture.

## GENERAL INFORMATION

This instruction is assigned to the College of Arts and Sciences, the College of Agriculture, the Schools of Business Administration, Education, Engineering, Home Economics, Nursing and Physical Education. The aim of the four-year course is to give as high a degree of proficiency in some particular branch of learning as is possible without sacrificing the breadth, knowledge, and training which should characterize a well-rounded college education.

The Bachelor of Arts degree is conferred upon those candidates who fulfill the requirements for this degree specified by the College of Arts and Sciences and the School of Education. The Bachelor of Science degree is conferred upon those candidates who fulfill the requirements for this degree in the College of Arts and Sciences, the College of Agriculture, the Schools of Home Economics, Nursing, and Physical Education. All graduates from the School of Engineering receive the appropriate degrees of Bachelor of Science in Chemical Engineering, Civil Engineering, Electrical Engineering or Mechanical Engineering. All graduates from the School of Business Administration receive the degree of Bachelor of Business Administration.

Special arrangements are made for some graduates of county agricultural schools and of agricultural departments of certain high schools to complete the college course with majors in agriculture or horticulture. Upon the completion of their course they are granted a Bachelor of Vocational Agriculture degree.

## The Graduate School

Graduate work leading to the Doctor of Philosophy degree may be taken in the following fields: Agronomy, Animal Science, Bacteriology, Botany, Chemistry, Economics, Entomology, Food Sciences, Food Technology, Government, Plant Pathology, Poultry Science, Psychology, and Zoology.

A cooperative Ph.D. program involving Amherst, Mount Holyoke and Smith Colleges and the University of Massachusetts is also available in the biological sciences and in chemistry.

The following departments offer major work leading to a Master's degree: Agricultural Economics, Agricultural Engineering, Agronomy, Bacteriology, Botany, Business Administration, Chemistry, Chemical Engineering, Civil Engineering, Dairy and Animal Science, Economics, Education, Electrical Engineering, English, Entomology and Plant Pathology, Floriculture, Food Technology, Forestry, Geology, German, Government, History, Home Economics, Horticulture, Landscape Architecture, Mathematics, Mechanical Engineering, Olericulture, Philosophy, Physics, Pomology, Poultry Science, Psychology, Public Health, Romance Languages, Sociology, Wildlife Management, Zoology.

## GENERAL INFORMATION

The general requirements of the Graduate School regarding admission, residence, credits, tuition, etc., together with specific information concerning details of interest to prospective students, are outlined in a separate bulletin, which may be obtained upon request from the Dean of the Graduate School.

### Summer Sessions

An expanded summer program enables the student to earn nearly the equivalent of a full semester's work. The sessions are open to freshmen who wish to begin their college education immediately following graduation from high school. The program also serves the needs of students currently enrolled in colleges; graduate students; and professional workers seeking courses in specialized fields. A bulletin describing the entire summer program is available from the Director of the Summer Sessions.

### The Stockbridge School of Agriculture

The University, through the Stockbridge School of Agriculture, provides a complete non-degree program of two-year technical and vocational courses in the fields of agriculture, horticulture and related fields.

This School was organized at the University in 1918 under the name of "The Two-Year Course in Practical Agriculture." Its purpose was to meet the demand for shorter courses in agriculture which might be taken by high school graduates who could not satisfy college entrance requirements or who were unable to take the four-year college course. In 1928 the School was given its present name in honor of Levi Stockbridge, first professor of agriculture at the University and its fifth president.

Men and women are trained primarily for the practice of farming or for jobs in associated agricultural industries. A diploma is awarded for satisfactory completion of the course.

As the two-year program is now organized, a student may choose any one of 12 vocational courses, including Animal Science, Arboriculture, Dairy Technology, Floriculture, Food Distribution, Food Management, Forestry, Fruit Growing, Landscape Operations, Poultry Science, Turf Maintenance and Vegetable Crops.

On-the-job placement training is required of all first-year students following the second semester for a period of three to five months, depending on type of employment. Wages earned can pay a large part of second-year expenses if the student is forced to economize.

## **GENERAL INFORMATION**

Limited enrollment quotas in each major course make necessary early filing of application. No formal entrance examinations are required for non-degree short courses.

A catalogue, giving complete description of all two-year courses offered in The Stockbridge School of Agriculture, as well as full details on estimated costs, employment opportunities in each field, and entrance arrangements is available. An application form is printed in the catalogue. Write to Director of The Stockbridge School, University of Massachusetts, Amherst.

### **Other Non-Degree Short Courses**

Other short courses, varying in length from one to ten weeks, furnish supplementary training for city and town sanitary inspectors, tree wardens and city foresters, golf course greenskeepers, and skilled workers in dairy and ice cream plants. A certificate is presented upon the satisfactory completion of the course.

### **Research and Regulatory Services**

The University of Massachusetts serves the fields of agriculture and horticulture through its Experiment Station, which provides research and regulatory services. Experiment stations were established in all states as the need for development of practical information on subjects relating to agriculture became apparent. Through the efforts of experiment stations, a fund of scientific knowledge applicable to agriculture and horticulture has been accumulated, and research workers in the experiment stations continue to contribute this knowledge by constant research and experimentation.

At the University of Massachusetts, the Experiment Station service has expanded until it now deals with problems in the following fields of specialization: Agricultural Economics and Farm Management, Agronomy, Bacteriology, Chemistry, Dairy and Animal Science, Engineering, Entomology and Plant Pathology, Floriculture, Food Distribution, Food Technology, Forestry, Nutrition, Olericulture, Pomology, Poultry Science, and Veterinary Science. Most of the research activities at the University of Massachusetts are undertaken at the main Experiment Station at Amherst. There are, however, two substations, one at Waltham, devoted largely to the problems of horticulture as applied to olericulture, floriculture, and nurseryculture, and one at East Wareham, where attempts are in progress to solve the problems of the cranberry and blueberry growers.



## GENERAL INFORMATION

In addition to the work described above, the administration of certain regulatory services, pertaining to the sale of feeds, fertilizers, and seeds and to the use of dairy glassware, is also assigned to the Experiment Station which is equipped with the necessary laboratory facilities and personnel for that purpose.

### Cooperative Extension Service

The Massachusetts Extension Service conducts educational programs for adults and off-campus youth (4-H) in agriculture and home economics. These programs help people apply scientific and research information in reaching solutions to their problems. Programs are conducted with farm production, food processing, food distribution and other types of agricultural business, with homemakers and with other groups interested in family living, the development of youth, use of agricultural resources, and our rural communities.

The Extension Service is a cooperative teaching effort between the United States Department of Agriculture, University of Massachusetts and the several counties of the state. Many staff members in a wide range of fields at the University of Massachusetts participate in Extension education, as well as research and resident teaching. County Extension workers cooperate with University personnel in planning and conducting the work. A variety of educational techniques and communications media are used.

## ADMISSION

Applications for admission may be obtained by writing the Registrar of the University. Candidates are advised to file their applications early in the senior year and certainly not later than March 1 of the year they plan to enter.

Qualified applicants are admitted at the beginning of the fall and spring semesters and at the beginning of the ten weeks summer session. Since there are many more qualified applicants than can be admitted, however, preference has to be given to those with the highest ratings.

All applicants for admission except veterans and candidates for the Bachelor of Vocational Agriculture degree must take the Scholastic Aptitude Test given by the College Entrance Examination Board. In addition, the University reserves the right to require three Achievement Tests administered by the same Board if the applicant's scholastic record includes several subjects below the college recommending grade of the school. Each applicant will be informed of the procedure he must follow at the time his application is acknowledged.

### Methods

#### A. *High School Seniors*

High school seniors are advised to file their applications early in the senior year. The Scholastic Aptitude Test may be taken on any of the scheduled dates. The January date is recommended except for those applying for early acceptance. The May date is usually too late for seniors, but is appropriate for juniors taking the test for guidance purposes.

Some applicants have a definite first preference for the University and have records that deserve early consideration. Such applicants will be accepted early in their senior year under the following conditions. They must be taking the usual college preparatory course in high school and maintaining the college recommending grade of the school in all of their courses. They must take the College Board Scholastic Aptitude Test in the junior year, preferably in May, and make a score satisfactory to the University. They must indicate the University as their first preference.

Under these conditions the University will be glad to accept such students as indication of excellent achievement in high school and to reduce some of the anxiety that an applicant feels during

## ADMISSION

the senior year while waiting for action usually taken in the spring. In this way, too, the burden of multiple applications on high school principals and college admissions officers may be lessened.

### B. *High Ranking High School Juniors*

Applicants who have completed with very high academic standing work through the junior year may be admitted to the University for the semester following the junior year. Such applicants must take the Scholastic Aptitude and three achievement tests given by the College Board in May of the junior year and make scores satisfactory to the University. They must be highly recommended by their high school principal. The maturity and social adjustment of the applicant will be considered along with his intellectual development. Such applicants should apply before the end of the junior year.

### C. *Veterans*

Veterans are not required to take the Scholastic Aptitude Test. Instead, they must take entrance examinations in algebra, English and a College Qualification Test. These are administered by the University Testing Service in January, June and August. Information in regard to these tests will be furnished the veteran at the time he files his application for admission. "Six Months Active Duty for Training" students are not considered veterans. They must take the College Board Scholastic Aptitude Test rather than the Veterans' Examinations.

### D. *Bachelor of Vocational Agriculture Degree*

Superior graduates of vocational schools of agriculture in Massachusetts and vocational agricultural departments in Massachusetts high schools may be accepted for the Degree of Bachelor of Vocational Agriculture, provided:

- a. They are unqualifiedly recommended by the Vocational Division of the Department of Education as *bona fide* Vocational Graduates with superior ranks; and
- b. That they can present at least 16 units of certified entrance credits, approved as to quality and quantity by the State Department of Vocational Education; and
- c. That they successfully pass the English and College Qualification Test administered by the University Guidance Office. Those who have had algebra will be required to include the algebra examination.

## ADMISSION

### E. *Transfer*

A limited number of transfers from approved colleges may be admitted. Since applicants for such transfer exceed the number that can be admitted, they are placed on a competitive basis. Ratings will be based upon high school and college records and on the College Board Scholastic Aptitude Test, which is required of all transfers. The University reserves the right to require the College Board Achievement Tests also, if the applicant's records make such advisable. Information in regard to transfer may be obtained by writing the Registrar.

At least 45 semester credits taken in residence at the University are required of all transfers who are candidates for the Bachelor's Degree.

### Subject Requirements

The subjects of preparatory study required for admission call for the satisfactory completion of a four-year high school course or its equivalent and are stated in terms of units. A unit is the equivalent of at least four recitations a week for a school year. High school graduation alone is not sufficient. The applicant's record must indicate capacity for handling the quality of scholastic work which the University has established as its standard of achievement.

Sixteen units of secondary school work must be offered, selected according to the following requirements:

College Preparatory Mathematics . . . . .	3*
English . . . . .	4
Foreign Language (2 years of 1 language) . . . . .	2
U. S. History . . . . .	1
Laboratory Science . . . . .	1

The remaining units are elective and may be selected from the following subject matter:

- a. Mathematics
- b. Science
- c. Foreign Language
- d. History and Social Studies
- e. Free electives (not more than four units)

Free elective subjects are those not included in groups a-d, as for example: Music, art, drawing, typewriting, aeronautics, agriculture, home economics, etc. Such free electives are allowed in order that the student who wishes may have some opportunity to elect other high school offerings, while at the same time covering the fundamental requirements for college work.

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\* Preferably two years of Algebra and one of Plane Geometry.

## ADMISSION

Students planning to major in the physical sciences and mathematics should, if possible, offer two years of algebra, one of plane geometry, and one-half year of trigonometry. Analytical or solid geometry, chemistry, and physics are also strongly recommended.

Students planning to pursue an engineering curriculum should offer two years of algebra, one of plane geometry, and one-half year each of trigonometry and solid geometry. Chemistry and physics are also advised. Those deficient in the mathematics should plan to cover it during the summer prior to entrance or expect to take five years to complete the college course.

In high schools organizing agricultural club work under the supervision and rules of the Junior Extension Service of the University, one credit is granted for each full year of work approved by state leaders.

Candidates of exceptional ability and promise may be considered for admission even though some of the prescribed courses were not included in their high school program.

### College Entrance Examination Board Advanced Placement

Successful completion in secondary school of courses approved by the College Entrance Examination Board Advanced Placement Program, or the equivalent as approved by the University, will be regarded as meeting the equivalent requirement and will be accorded credit toward graduation.

### Physical Examination

Physical examination by their local doctor is required of all entering freshmen, re-entering students and all students participating in athletics. Physical report forms for this examination will be mailed to each student with the bill for the first semester and must be completed and returned to the University Health Service 10 days before the opening of the semester. Evidence of a *successful* smallpox vaccination is required.

### Veterans' Affairs

The Veterans' Coordinator is a member of the Placement Service. Veterans enrolling for the first time must file a Certificate of Eligibility with the Placement Office prior to or at registration. All veterans should clear their affairs through the Placement Service.

## EXPENSES

### University Fees

Expenses vary from approximately \$1000 to \$1200 per year for the normally economical student. First year costs are usually greater than those of the other three years and there is less opportunity to earn. A student is advised to have a definite plan for meeting the expenses of the first year before entering.

Freshmen entering the School of Engineering should be prepared to meet an expense of approximately \$45 for drawing equipment and a slide rule.

The following estimate of a year's expenses, based upon last year's costs, includes only those items which are strictly college and does not include amounts for clothing, laundry, travel, etc. These costs vary slightly from year to year. Tuition for residents of Massachusetts is \$200 per year and for others \$600.

	<i>Normal</i>
Tuition (citizens of Massachusetts) . . . . .	\$200.00
Room in college dormitory or private home (approx.)	200.00
Board at college Dining Halls (approx.) . . . . .	420.00*
Athletic Fee . . . . .	30.00
Student Union Fee . . . . .	20.00
Student Tax (approx.) . . . . .	24.00
Student Health Fee . . . . .	30.00
Student Health Insurance, 12 months' coverage (optional) . . . . .	18.00
Books, stationery, and other supplies (estimate) . . . . .	100.00
	\$1042.00

### Initial Payment for Freshmen

The initial payment for first semester expenses required of freshmen at the time of fall registration is indicated below and is made up of the following items:

Tuition (citizens of Massachusetts) . . . . .	\$100.00
Room rent in college dormitories (approx.) . . . . .	100.00
Board at college Dining Halls (approx.) . . . . .	210.00*
Athletic Fee . . . . .	15.00
Student Tax (approx.) . . . . .	12.00
Student Union Fee . . . . .	10.00
Military Uniform Deposit (men only) . . . . .	30.00
Physical Education Equipment Fee (men only) . . . . .	10.00
Student Health Fee . . . . .	15.00
Student Health Insurance, 12 months' coverage (optional) . . . . .	18.00
Books, stationery, and other supplies (estimate) . . . . .	60.00
	\$580.00

\* Above plan for 7 days; 5-day plan available for approximately \$340.00 per year or \$170.00 per semester.

The above are only approximate figures. A bill will be rendered to the parent of each student prior to the opening of the University.

## Tuition

As a state institution the University of Massachusetts offers a low rate of tuition to all students entering from the Commonwealth. Eligibility for admission under the low residential rate is determined in accordance with the following policy established by the Board of Trustees.

A student must present evidence satisfactory to the Treasurer of the University that his domicile is in the Commonwealth of Massachusetts in order to be considered eligible to register in the University as a resident student. This means that he must have established a *bona fide* residence in the Commonwealth with the intention of continuing to maintain it as such.

The domicile of a minor shall follow that of the parents unless such minor has been emancipated. In case of emancipation the student, in addition to the requirements of these regulations, respecting residence, shall present satisfactory proof respecting emancipation. Minors under guardianship shall be required to present, in addition to the certification of the domicile of the guardian, satisfactory documentary evidence of the appointment of the guardian.

No student shall be considered to have gained residence by reason of his attendance in the University nor shall a student lose residential preference during his continuous attendance at the University.

The residence of a wife shall follow that of the husband.

The prescribed form of application for classification as to residence status must be executed by each student. Misrepresentation of facts in order to evade the payment of out-of-state tuition shall be considered sufficient cause for suspension or permanent exclusion from the University.

Discretion to adjust individual cases within the spirit of these rules is lodged with the President of the University.

## Board

The University provides three dining halls for students at Butterfield House, Greenough House and University Dining Commons. The dining halls at Butterfield and Greenough dormitories are intended primarily to provide for students housed in that area, including residents of Chadbourne, Mills and Brooks Houses.

All freshmen, sophomores and juniors residing in University dormitories will be required to board at University dining halls,

## **EXPENSES**

except that such students who are members of fraternities or sororities are permitted to board at their respective fraternities or sororities.

Any student who wishes may board at University dining halls on the ticket plan or cash basis.

### **Military Uniform**

All freshmen students taking military drill are required to make a deposit of \$30 for the uniform at the time the first semester bill is paid. Charges for loss or damage of the government issued uniforms will be deducted from this deposit. Should the amount on deposit drop below \$20, because of charges, the student will be required to make additional deposit to restore the balance to \$30. The deposit will be refunded to the student less any charges after clearance from the Air Force or the Army after the student has completed the requirements of the basic course, has been excused from the course or has left the University.

### **Student Activity Tax**

This tax, authorized by vote of the undergraduate students with the approval of the Board of Trustees, provides each student with the *Collegian*, the student newspaper; *Index*, University yearbook; student government, class and other activities.

## **PAYMENTS**

### **Advance Payment**

New students will be expected to make an advance payment of \$15 to the Treasurer of the University as soon as they are notified by the Registrar that they are accepted for admission. This will be considered as first payment on registration fee, which will be due at time of matriculation in September. It is not refundable and will be considered as payment for admissions and registration expense if the student does not matriculate.

A Certificate of Residence form furnished by the University must be properly filled out by the parent and the town or city clerk and returned with the \$15 advance payment.

### **Summer Orientation Fee**

Members of the incoming freshman class attending the summer orientation program will pay a non-refundable fee of \$15 to cover the cost of meals, housing, testing and counseling.



### **When Payments Are Due**

In accordance with policy established by the Board of Trustees, all charges for tuition, fees, board, and room rent in University Dormitories are due and payable seven days prior to the date of registration of each semester. Bills will be rendered in advance and payment may best be made by mail. Students may not register until registration charges are paid.

### **Veterans' Information**

Veterans who are entering the University for the first time must present a Certificate of Eligibility at registration. This may be obtained from your nearest Veterans Administration office. Board and room fees must be paid in advance whether the veteran is enrolled under the G.I. Bill or not.

Veterans who are transferring to the University of Massachusetts from another institution or who have done summer work at another institution will be required to submit a supplemental Certificate of Eligibility at registration. This may be obtained by applying through the veterans' office at the institution last attended.

## **FINANCIAL AID**

Scholarships, loans, and part-time employment are available for a limited number of needy and deserving students.

A pamphlet on Financial Aid for Students at the University of Massachusetts is available upon request from the Placement Service.

### **Aid for Freshman Year**

Freshmen are eligible for scholarships and part-time employment and may apply for a National Defense Student Loan. A freshman also becomes eligible for assistance from other loan funds after satisfactorily completing one semester of academic work. However, freshmen are advised to have sufficient funds for the beginning semester so that they may concentrate on making satisfactory social and academic adjustment. Scholarship application blanks may be secured from the Placement Service and should be filed by March 15. Part-time employment application forms may be obtained from the Placement Service and filed after a candidate has been accepted for admission. Unless extreme need prevails, freshmen will not be granted part-time work the first semester. Those allowed to work should plan to spend no more than ten hours per week on such work. (See page 24 for further information on Scholarships and Loans.)

## SCHOLARSHIPS AND LOANS

Scholarships are awarded only to needy and deserving students of high character whose habits are economical and whose scholastic records are satisfactory; that is, at least a 2.5 quality point average. A limited number of scholarships are available to entering freshmen who have made outstanding records in high school.

Scholarships are paid in installments at the beginning of each semester in the form of a credit on the student's bill. A scholarship may be discontinued at the close of any semester.

If the scholarship student withdraws from the University, any refund of University fees or charges must first be applied to reimburse the scholarship fund for the full amount of the scholarship received by the student for the semester.

Applications for scholarships may be obtained from the Placement Service and must be completed and returned by March 15 to be considered.

### GENERAL SCHOLARSHIPS

**COMMONWEALTH SCHOLARSHIPS.** The Commonwealth of Massachusetts annually provides 25 scholarships of not more than \$250 for members of each of the four undergraduate classes of the University. Upperclass students may obtain application forms from the Placement Service. Entering freshmen may obtain application forms at the Registrar's Office.

### LOANS

Through the generosity of friends of the University, funds have been donated to provide loans for a limited number of students of the three upper classes to assist in paying tuition or other college expenses. These loans are granted, after proper consideration, to needy students of good scholarship whose habits are economical. All loans are secured by a note endorsed by a responsible party as collateral. In general, loans must be paid before graduation. Upon maturity and 5% thereafter. The Lotta Crabtree Agricultural Fund loans are made without interest. Application for loans should be made to the Placement Service, Machmer Hall. No loan under this plan will be granted in excess of \$200 in any one year.

If funds are available at the beginning of the second semester, loans may be made in exceptional cases to members of the freshman class whose scholastic record is satisfactory and whose budget calculations have been upset through circumstances beyond their control.

## **Higher Education Loan Plan**

Loans up to \$500 per year may also be obtained by students in the three upper classes from the bank of their choice through the Higher Education Loan Plan. Certification of attendance and other information relative to the student's overall record will be submitted to the bank prior to receipt of the loan. Further information can be obtained in the Placement Service.

## **National Defense Student Loan Program**

Students may borrow up to \$1000 per year under this program. Interest at 3% starts one year after completion of the program and is repayable within 10 years. Special consideration in the granting of these loans is given to needy students of superior scholarship who are majoring in engineering or a physical science, studying a modern foreign language, or planning to teach in a public school. Because of the small amount of money available, this is necessarily a limited, selective program. Further information and application forms may be secured from the Placement Service.

# UNIVERSITY REGULATIONS

## Freshman Orientation Program

Members of the incoming freshman class are required to attend a summer orientation program of two and a half days. This is a period of testing, counseling and pre-registration. A series of guidance and placement tests will be given and then scored. The student will be assigned to a faculty counselor who will help him select his courses for the fall semester and plan his schedule of hours.

If a student is given advanced placement by a placement examination or by some other means, and if he completes the advanced work (the next course if the courses are in sequence) with a grade of C or better, he will be given credit toward graduation but no grade for the omitted work; if the grade in the advanced work is D, he will be considered to have completed any requirement represented by the omitted work but will not receive credit for the omitted work. Credit with no grade awarded in this manner will be treated as transfer credit in the computation of quality-point averages.

A special program for parents is arranged for the final day of the session at which time they learn about the tests and the results, the student's proposed courses and schedule for fall semester, and the facilities and opportunities at the University.

## Enrollment Regulations

### A. Pre-Registration

Every student must report for pre-registration on the appointed day. Late pre-registrants will be charged a fee of \$5. A student who does not pre-register is not assured admission into the next semester.

### B. Registration

Each student must report for registration on the appointed day. Late registrants must pay a \$5 fine.

### C. Course Changes

No course will be recorded on the permanent records of the University nor will a student receive credit for it unless he has registered for such a course in accordance with established procedure on a regularly scheduled registration day or unless his registration shall have been made official by the signature of the Registrar. In the latter case a Program Change Card must be signed by the student's adviser and the Registrar approving the course, and by the instruc-

tors of the courses to be dropped and added. No instructor should allow a student to enter his class unless the student was officially enrolled on a regularly scheduled registration day or submits such a Program Change Card authorizing his admission to the class.

A student may not drop a course without the approval of his adviser and the Registrar on a Program Change Card and the release of the instructor. A course dropped without this approval will be recorded as a Failure.

### **Advisory System**

In order that from the day he enrolls the freshman may have some one to whom he may go for consultation and assistance, each student is assigned to a faculty adviser at the time of registration. It is the function of this adviser to help the student in adjusting himself to the work and life of the University. Academic progress reports issued by the Registrar's Office are sent to the advisers periodically, and the students are expected to report to their advisers from time to time to discuss their academic standing. The University also forwards reports of academic standing to the parents. Both students and parents are encouraged to consult with the adviser whenever there are problems regarding studies or personal adjustments to college life.

In the second semester of the freshman year each student will discuss his vocational and specialization plans with his adviser. If he can decide definitely upon the department in which he wishes to specialize, and the adviser approves, the student takes his election card to the head of that department for approval. In cases where students are not ready to designate a department of specialization they continue as general majors during the sophomore year under the direction of an adviser assigned by the head of the School in which the student is enrolled. Such general majors must select their field of specialization by the end of the sophomore year.

### **Standards of Conduct**

The customary high standard of college men and women in honor, self-respect, and consideration for the rights of others constitutes the ideal of student conduct.

The privileges of the University may be withdrawn from any student at any time if such action is deemed advisable.

It should be understood that the University, acting through its president or any administrative officer designated by him, distinctly reserves the right, not only to suspend or dismiss students, but also to name conditions under which they may remain in the institution.

Hazing in the sense of the punishment or humiliation of students is not permitted.

### **Student Housing**

It is the policy of the Board of Trustees that all men and women undergraduate students shall be housed in campus dormitories and be required to eat at University dining halls unless given permission

## REGULATIONS

to commute from their parents' home or to live at sorority or fraternity houses. University board is optional for seniors and is available on a cash basis. Sororities and fraternities may furnish regular board to members up to the approved capacity for each house.

Students who are assigned to housing operated by the University are expected to remain in occupancy for the academic year and may not be released sooner except as their places are taken by suitable substitutes.

The University of Massachusetts reserves the right to change room assignments whenever necessary.

Most dormitory rooms are double and are furnished with beds, mattresses, pillows, desks, chairs, and a chest of drawers. Students care for their own rooms and are responsible for any damage.

Dormitories will be open for occupancy on the day immediately preceding the opening of the University.

All student property must be removed from the rooms and the key turned in immediately after final examinations in June. Such property not removed by the owner will be removed by the University and stored at the owner's expense.

Students assigned to dormitory rooms will be responsible for the room rent of the entire semester. Room rent is not refundable.

Room rental charges do not include the several regular school vacation periods. The University reserves the right to utilize student rooms during vacations for conferences and other groups which meet occasionally on the campus.

### Rooms for Women Students

Assignments of rooms in women's dormitories are made by the Office of the Dean of Women. Rooms are available for women students at Arnold, Crabtree, Dwight, Hamlin, Johnson, Knowlton, Leach, Lewis, Mary Lyon, and Thatcher Houses.

Under the supervision of the Dean of Women, life in each dormitory is directed by a council of student leaders, advised by a full time head of residence, so that conditions in the residence halls are conducive to study and good living habits. Through the women's branch of the Student Government, the responsibility is put upon each student to live according to her own best standards as well as according to the standards of the group.

Freshman girls will be assigned rooms in the dormitory and will be notified of the assignment prior to the beginning of college.

In the spring of each year, upperclass women have an opportunity to choose rooms for the coming year.

Only students living in their own homes may commute. Upperclass women may apply to the Dean of Women for permission to live in a sorority house, or to earn room and board in a private home.

Dormitories are maintained for undergraduates; graduate women from other countries are also accommodated whenever possible.

## **REGULATIONS**

The Dean of Women's Office maintains a list of rooms in Amherst available for graduate women students.

### **Rooms for Men Students**

Dormitory rooms are available for male students at Abigail Adams, Baker, Brooks, Butterfield, Chadbourne, Greenough, Hills, Mills, Van Meter, and Wheeler Houses.

Assignment of dormitory rooms is under the supervision of the Housing Office. Requests for permission to live off campus must be made in writing to the Dean of Men.

A full-time Head of Residence who is a member of the professional staff of the Dean of Men's Office is in charge of each dormitory. While these Heads of Residence are responsible for the enforcement of University rules and regulations, their primary concern is to counsel students. In each dormitory they are assisted by Floor Counselors in maintaining good living and study habits.

Dormitories are governed by an elected Student House Council, advised by the Head of Residence, a procedure which gives the students valuable training in dealing with the problems of group living.

### **Apartments for Married Students**

The University operates 165 apartments for married students and junior faculty. Although it cannot guarantee housing for all married students, every effort will be made to assist in locating housing either on or off campus. Campus housing assignments are under the direction of the Housing Office and all inquiries should be addressed to that office.

### **Automobiles**

Only members of the senior class, students 21 years old or over, and commuters are permitted to have automobiles or other types of automotive equipment on the campus or in the Town of Amherst. Vehicles must be registered with the Campus Police. Driving to and from classes is not permitted. Exceptions may be made in the case of an individual who has a severe physical limitation. Requests for such exceptions must be made through the University Health Service.

## GENERAL SERVICES

### University Library

The University Library now consists of the Goodell Library built in 1935 together with a new library addition of seven floors completed in September 1959 which is twice the size of the original library building. The library complex will provide space for the future expansion of the book collection to 460,000 volumes. Seating capacity is provided for 1350 readers and includes special study areas and reading rooms.

The present book collection numbers 228,450 volumes in the University Library and the 30 departmental and laboratory libraries. Facilities in the University Library include rooms for reference materials and current periodicals, a rare book room, an extensive microfilm collection, microfilm reading units, a map room, an exhibition area, and a typing room for researchers. The University Library is also a depository for the publications of the United States Government as well as the State Agricultural Experiment Stations.

### Hampshire Inter-Library Center

The University Library is a participating member of the Hampshire Inter-Library Center, a cooperative facility for the acquisition, storage and servicing of research materials, especially journals, documents and reference sets. Incorporated in 1951 to augment library resources in the area, HILC is jointly operated by the four Connecticut Valley colleges—Amherst, Mount Holyoke, Smith, and the University of Massachusetts. The collection now numbers about 18,000 volumes. It is located on the second level of the new addition to the University Library.

### Religious Activities

The University is concerned in an age of anxiety with the needs for spiritual undergirdings for the educated man. In this day of uncertainty, such concern for the affairs of the spirit has an equal prominence with searching for scientific truths and knowledge in human relations.

The University gives support to the religious life of its students in various ways. It affords the use of University facilities for student groups of all faiths. It cooperates with the official agencies of the three faiths most largely represented at the University by recogniz-



## GENERAL SERVICES

ing the contributions of their privately supported chaplains and by giving them facilities and privileges for their work.

On the campus, the religious life of Catholic students is enriched by the program of the Newman Club, of which Rev. David J. Power is chaplain and Rev. J. Joseph Quigley is assistant chaplain. Jewish students participate in services and activities sponsored by the B'nai B'rith Hillel Foundation, of which Rabbi Louis Ruchames is the director. Protestant students join in worship and other religious activities planned by the Christian Association, with the guidance of Rev. Albert L. Seely, Protestant chaplain, and Rev. Russell G. Claussen, assistant Protestant chaplain.

Other religious groups such as the Massachusetts Bible Fellowship, the Orthodox Club, the Christian Science Organization, and the Lutheran Club also meet regularly on campus and students interested in their programs are welcome to attend.

The local Protestant and Catholic churches of Amherst provide opportunities for Sunday worship, and Sabbath services for Jewish students on Friday evenings are held at the Student Union. Students are encouraged to attend the services of their respective faiths. Several denominations sponsor active student programs centered in the local churches as well, and students are welcome to attend events and join groups sponsored by the denominations.

### Health Service

The Health Service is devoted to the promotion of optimum health among members of the University community. Its concern is for the total health of individuals and groups, as reflected in the need for complete physical, mental and social well-being.

The work of the Health Service in caring for the needs of students will be made more fruitful in the fall of 1961 when headquarters will, for the first time, be located in the new Infirmary. The building will contain an out-patient department with offices and examining facilities for adequate care of ambulatory patients. In addition, there will be 88 beds available for care of students whose needs are best met by hospitalization. X-ray, laboratory, and physiotherapy facilities will be available to help in reducing time lost by students for reasons of health.

Recognition of the specific emotional needs of students in an educational environment has led to the provision of an active psychiatric program. Diagnostic and limited treatment consultations are available as part of the Health Service program. Other consultation services can be arranged as needs arise. Hospitalization for conditions requiring more specialized care than is available in the Infirmary can be arranged at the Cooley Dickinson Hospital in Northampton.

## **GENERAL SERVICES**

The Health Service works closely with the School of Physical Education in adapting the facilities of the School to the individual needs of students for restricted or remedial activity. The health status of participants in the athletic program, both intramural and intercollegiate, is under Health Service supervision; and care is always available for any injuries resulting from these activities.

The Health Service also has an active concern for matters of sanitation and safety which affect the health of students, faculty, employees, and visitors. A physician is always on duty at the Infirmary, or on call, to attend emergency needs among families, visitors, and members of conference groups as well as regular members of the University community.

Students are urged to consult a member of the Health Service staff as soon as any indication of a physical or emotional disorder is evident. It is much easier for the staff, and less time-consuming for the student, to rectify minor difficulties before they have become sources of disability.

Students who are under medical supervision prior to entrance are urged to have their physicians write the Health Service, giving reports and instructions in appropriate detail. Every effort is made to continue treatment without interruption. In brief, the Health Service attempts to provide all students with a co-ordinated and comprehensive program of health supervision formerly provided by their family physicians.

### **Speech and Hearing Clinic**

A Speech and Hearing Clinic is maintained to assist students with speech and hearing problems. Professional services are provided by qualified speech and hearing therapists. Opportunity for assistance is available for students with various problems including stuttering, articulation problems, foreign dialect, voice disorders, and hearing loss. Interested students may contact the Speech Department for an appointment. Appointments will also be made for students recommended by advisors and faculty members. There is no fee for services.

### **The Placement Service**

The University maintains a centralized Placement Service, the main function of which is to assist students to secure part-time or summer positions and permanent employment following graduation.

The University is keenly interested in each graduate's having an

## GENERAL SERVICES

opportunity to serve effectively in an occupation consistent with his interests, abilities, aptitudes, and education. To assist students in accomplishing their objectives, the following aids are available: cumulative student personnel records, occupational information and industrial literature library, counseling and guidance in job hunting techniques, preparation of credentials and personal data sheets. Also, personal interviews on campus are arranged with prospective employers.

The Placement Service is the clearing center for all part-time jobs at the University. Students are assisted in obtaining part-time work during the college year and full-time work during the summer vacation. Employment is not guaranteed, but every effort is made to help those students who must work to meet their college expenses. In order to give assistance to as many needy students as possible, the maximum financial aid per student is limited to the equivalent of board. The average earnings of students engaged in part-time work is approximately \$150 per year.

The granting of loans, awarding of scholarships, liaison in veterans' affairs and the military draft are also functions of the Placement Service.

### **Publications and News Office**

The University recognizes its obligation to provide the public with accurate information about its educational program. With rising public interest in higher education, news of the University is sought by all communications media, including the daily and weekly press, radio and television.

In addition to providing information through mass media, the Publications and News Office maintains contacts with institutions of higher learning throughout the country through exchange of information in professional journals and publications of educational societies.

Daily training in news writing is provided for a limited number of students who report on University activities and prepare copy for general news releases.

The catalogues describing various phases of the academic program of the University are edited in the Publications and News Office.

### **Audio-Visual Center**

The Audio-Visual Center is organized to help the professional staff through the use of audio-visual materials. The Center has a library of about 1,000 motion picture films; filmstrips; and 2 x 2 slide sets. All major types of audio-visual machines are available

## GENERAL SERVICES

for short-term use in classroom teaching. The Center maintains a photographic service for the preparation of technical pictures and 2 x 2 slides. Assistance is available in the preparation of instructional graphic materials, such as charts, graphs, maps and diagrams.

### Bureau of Government Research

The Bureau of Government Research was established at the University of Massachusetts in 1955. The Bureau is staffed by professional personnel experienced in local government research. Its work consists of research in governmental problems, publication of studies in public administration, conducting training institutes for public officials, providing consultative services to cities and towns, and the maintenance of a research library.

### Alumni Association

The Associate Alumni is the general alumni organization of the University of Massachusetts. The association maintains headquarters at Memorial Hall, erected by alumni and friends in honor of those men of the University who died in World War I.

The association publishes a magazine, *The Massachusetts Alumnus*, as the alumni publication of the University.

According to its by-laws, the corporation is constituted for the purpose of promoting the general usefulness of the University of Massachusetts; of cultivating among its graduates and former students a sentiment of mutual regard; and of strengthening their attachment to their Alma Mater.

Under sponsorship of the University of Massachusetts Building Association, composed of alumni who volunteered their services, 18 dormitories, two faculty apartment centers, and a Student Union Building have been constructed on the campus.

The governing body of the Associate Alumni consists of its officers and a board of directors. Four directors are elected each year and serve a term of four years. All graduating seniors become members of, and contributors to, the association at graduation, according to a tradition set by the Class of 1940.

The Association also publishes a supplementary *Newsletter* for alumni in addition to a quarterly *Newsletter* for parents.

### The Student Union

The Student Union is the community center for all members of the University family—students, faculty, administration, alumni, and guests. It is not just a building: it is an organization and a

## GENERAL SERVICES

program which together constitute a well-defined plan for a fruitful community life on campus.

Constructed in 1957 by the University of Massachusetts Building Association, the Union is the center not only of major social activities, but also of many other organized endeavors forming an important adjunct program in the general educational process of the University as a whole.

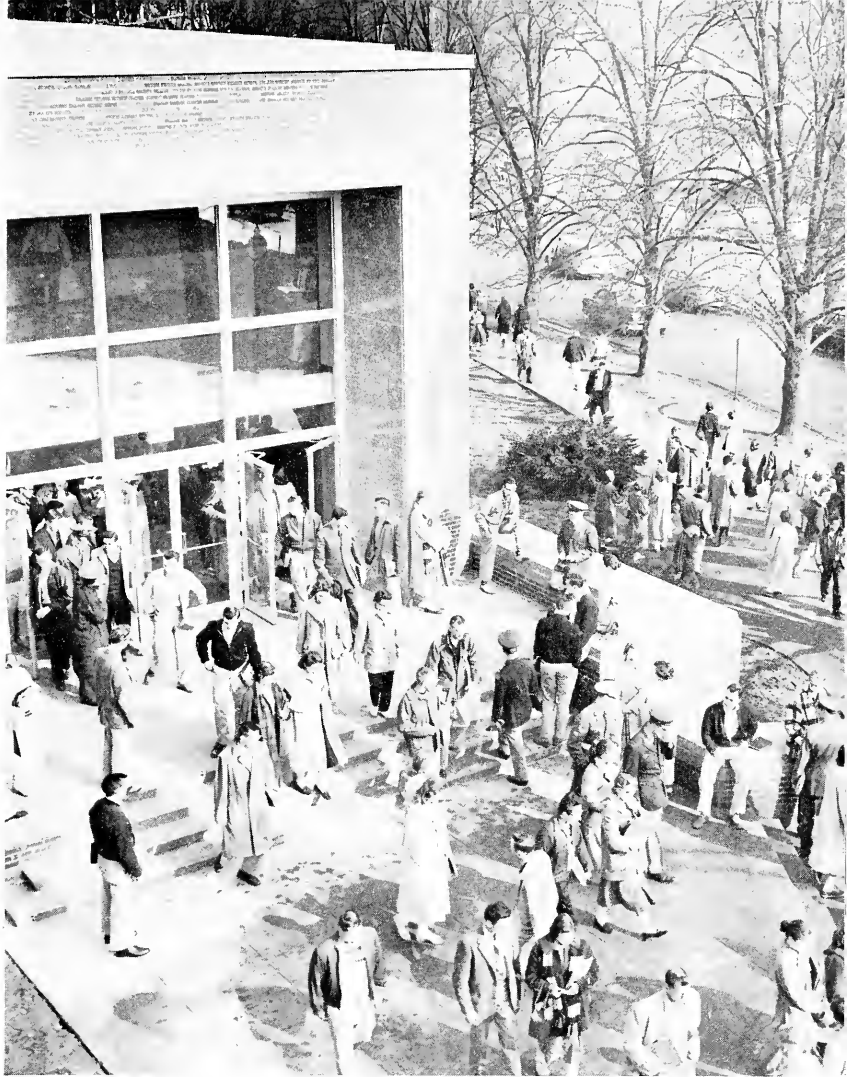
Thus, the Union houses the offices of the Student Activities staff, student publications, the Chaplains, the University Conference Coordinator, and the Student Senate. Service departments of the Union include: the University Store, carrying a complete stock of books, supplies, and other items; the Union Food Service, providing snacks or catered meals; the Games Area, with bowling, billiards, table tennis and other facilities; the six-chair Barber Shop; and the Lobby Counter, the Union's general service facility (newspaper stand, box office, check-cashing service, record lending library, and information desk).

Three large lounges—the Cape Cod, Colonial, and Governor's—are available for reading and conversation. There is also a Music Room, for listening or piano practice; a Reading Room, containing home-town newspapers and periodicals; and ten Meeting Rooms for use by campus organizations.

Extra-curricular activities are selected, planned and executed by the Student Union Program Council and committees. These groups are composed of interested volunteer students, and their activities are coordinated by a full-time Program Coordinator.

The construction cost of the Student Union is being defrayed by a Student Union Fee of \$10 per student per semester. The excess of student fees over the bond schedule, plus revenue earnings, compose the operating fund for the Union building.





# *What Is a University?*

**Faculty . . . Students . . . Buildings**



## **The Library**

**. . . resource center**





**... for all who wish to learn**





**... relaxing and studying**

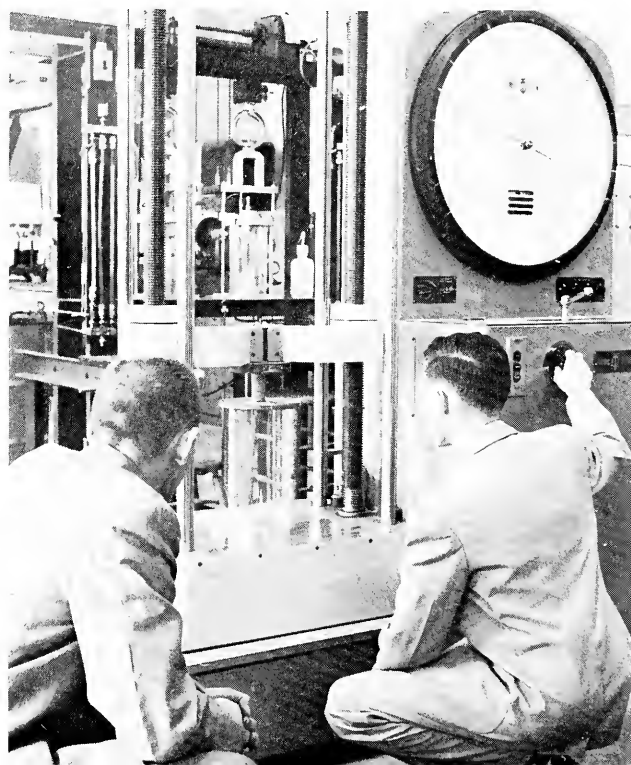






**... in languages**

**... in engineering**





**... the search continues**

**... in the classroom**





## **Student Union**

**... campus center for  
recreation and  
extra curricular activities**

## SPECIAL PROGRAMS

### Distinguished Lectureships, Seminars, Colloquia

Each year the University brings distinguished personages to the campus to lecture on topics of major significance in the arts, sciences, public affairs, and other areas of human concern. Each talk is given either as a single public lecture or as part of a program of panel discussions and lectures sponsored by a University group for public presentation. Included in the yearly schedule of such events are the Alumni War Memorial Lectures; the University of Massachusetts Assembly lectures and seminars; public lectures of the University's Distinguished Professors of Public Affairs; panel discussions and talks delivered during International Weekend; and the Phi Kappa Phi and Sigma Xi lectures. In addition, individual departments sponsor continuing programs of extra-curricular lectures, seminars and colloquia for the benefit of majors in those departments as well as for other interested persons.

Recognizing that a comprehensive education is not sustained through curricular experience alone, the University urges all of its students to attend as many of the extra-curricular lectures as they possibly can. Students undertaking honors work or participating in the Dean's Scholars program are informed of forthcoming lectures through an Honors Council newsletter. The student body at large is kept informed of such events through notices in the college newspaper as well as through posters, class announcements, and other means. The entire program is directed towards giving students fresh perspectives and a broader experience than that afforded by the University curriculum alone.

### Four College Cooperation

Amherst, Mount Holyoke, and Smith Colleges and the University of Massachusetts have for some time combined their academic activities in certain selected areas for purposes of extending and enriching their collective educational resources. Under this cooperative program, a student in any one of the four institutions may enroll in courses given at the other three if he has the necessary qualifications and the approval of the Dean or Provost of his own institution.

Catalogues of the courses offered at the other institutions are at the loan desk in each library and in the offices of all chairmen of departments. Application blanks and transportation information are available at the University in the Office of the Provost. Requests

## SPECIAL PROGRAMS

are usually made for advanced courses in the student's major subject and are normally granted only to students in good standing.

The oldest and perhaps most important of the Four College cooperative ventures is the Hampshire Inter-Library Center, a separate legal entity with a Board of Directors composed of the four Presidents, the four Librarians, and representatives from each of the Faculties. HILC is a depository for research materials and learned periodicals of a kind and in a quantity well beyond the reach of any one of the four libraries operating independently. The Center is now located on the University campus in the new addition to Goodell Library.

An FM radio station, WFCR (88.5), is similarly a Four College activity, operating as a legal entity under a Board of Directors made up of representatives of the four institutions. Other cooperative activities, all designed to give added strength in one way or another to each institution, include: a joint astronomy department; new courses in the history of science; new courses in non-Western studies, financed for three years by the Ford Foundation; a Ph.D. program; a Film Center; a common calendar of lectures and concerts on all four campuses; and a committee on transportation. Additional cooperative projects are in the planning stage. The entire program is under the supervision of a Coordinator who is a member of the administration of all four institutions.

### **New England Regional Program**

The University participates in a cooperative program conducted by the six New England state universities under auspices of the New England Board of Higher Education. Under this program, a student wishing to pursue studies in a major field not offered at his own state university may attend another New England state university at the in-state tuition rate. Information about the program is available in the Office of the Provost.

### **Humanities Center for Liberal Education**

The offices of the executive director of the American Humanities Center for Liberal Education are maintained in South College. This is a national agency fostering strengthened relationships between the liberal arts and sciences and the world of affairs and action.

The American Humanities Seminar, under the auspices of the University and the Center, is held annually on campus. It seeks to strengthen cooperation among the liberal arts and sciences and the technological fields.



## **PROGRAM FOR SUPERIOR STUDENTS**

The University provides superior students with challenging educational opportunities beyond those normally encountered in the regular four-year curricula. A flexible program of honors work, intended to develop and expand the potential of academically gifted students, is offered in the following areas.

### **Early Admission**

The University will consider applications for admission to the freshman class from students of high standing who have completed their junior year of secondary school and who qualify by letters of recommendation, examinations, and personal interview.

### **Advanced Placement**

The University grants advanced standing and college credit to entering students who have successfully completed certain college-level courses in their secondary schools as a part of the College Entrance Examination Board Advanced Placement Program or an equivalent. The University also administers a number of advanced placement tests to entering students enabling them to be placed in more advanced courses. Upon obtaining satisfactory standing in many of these courses, students will be granted academic credit for the courses bypassed.

### **Waiver of Requirements and Prerequisites**

For students who, through tests, can prove proficiency in the skills and subject matter of the course to be waived.

### **Credit by Examination**

Up to thirty semester hours of credit may be granted students of high standing who can fulfill the requirements of some of their courses through independent study.

### **Dean's Scholars: Freshmen and Sophomores**

On the basis of their academic rank in secondary school, results in aptitude and achievement examinations, and their standing at the end of their first semester or year of college work, up to ten per cent of the students in the freshman class and fifteen per cent of the students in the sophomore class may be designated Dean's Scholars.

## PROGRAM FOR SUPERIOR STUDENTS

These Scholars are accorded a number of privileges, including the right to participate in the Honors Colloquia.

### Senior Departmental Honors

Departmental Honors are designed to recognize merit and give highly qualified students time and opportunity for independent study under closer, more personal direction than is ordinarily provided in the University curriculum. Such study shall be devoted to a careful exploration of some question, problem or theme of significance within the student's major field. The ultimate aim of Departmental Honors is to afford talented students maximum freedom to develop their powers of initiative and resourcefulness and greater freedom to make at least a beginning in original, contributive research. To be eligible for admission to Departmental Honors, a student should have a scholastic record of 3.0 or higher for the first five semesters of college work and demonstrate outstanding promise in his major field. In exceptional cases students who have averages lower than 3.0 but show unusual aptitude for independent work may be accepted if a written statement establishing this is presented to the Honors Council. Departmental Honors candidates are assigned an advisor who supervises the preparation of the thesis to be submitted to his department and to the Honors Council. The candidate also presents an oral defense of his thesis. If by the excellence of his work he satisfies all the requirements of his department and the Honors Council, the candidate is awarded honors in the field of his specialization upon graduation. During the senior year, independent study is carried forward each semester as a three-credit course in the department of the major. Senior Honors students have the privilege of enrolling in courses normally limited to graduate students. By permission of the head of the department of their major, Senior Honors students may gain admission to the Graduate School of the University and enroll in courses for graduate credit, provided requirements for the baccalaureate are separately fulfilled.

### Further Opportunities for Independent Study

Students majoring in the College of Arts and Sciences who have a cumulative quality point average of 3.0 or better may, upon the recommendation of their major department, the Honors Council, and the approval of the Dean, pursue special courses of study during the senior year. The program must be the equivalent of thirty semester hours of credit, and students electing such programs will be granted release from other formal requirements of the senior year.

## STUDENT ORGANIZATIONS

Participation in extra-curricular activities offers opportunities to further the broader objectives of a college experience. The knowledge, skills and judgment developed in the classroom can be tested and refined through use in the organizational setting. Thus, more than fifty professional clubs exist on campus as a means of stimulating vocational interest through close contact with members of the teaching staff and representatives of the professions. Student government offers a forum for debate on matters of importance to the entire University community. For those interested in communications, there are several campus publications as well as an FM radio station. Experience in music and drama is available in a number of forms.

Such activities can be a profitable means of fostering maturity and general enrichment in those students who wish to take optimum advantage of all that the University can offer. In encouraging participation in these activities, the University asks only that students plan their time well, in order that they may profit as much as possible from a total University program devoted, first and foremost, to academic studies.

All extra-curricular activities are supervised by the Committee on Recognized Student Organizations composed of alumni, faculty, and students. Recognition for outstanding achievement in this area is given at an annual Student Leaders Night held in the spring. An office devoted to administering and assisting in the conduct of student activities is located in the Student Union. Detailed information about student organizations may be obtained by contacting the Assistant Director—Student Activities.

### Student Government

The Student Senate, operating under a student approved Constitution, has vested in it all legislative functions of student government and has the primary goal of promoting the welfare of the entire student body. The Senate levies student taxes and appropriates money for many student activities and services. At the same time, the Senate acts as the official representative of the students both on and off campus. In coordination with the Dean of Men and the Dean of Women, the Senate has the responsibility of establishing effective rules guiding the activities of students at the University.

## STUDENT ORGANIZATIONS

### Student Honor and Service Societies

*Adelphia.* The men's senior honor society, recognizing students who have been leaders in the extra-curricular activities of the campus.

*Mortar Board.* The Isogon Chapter of Mortar Board was installed at the University of Massachusetts in 1955. The purpose of the Society is to promote college loyalty, to advance the spirit of service and fellowship among University women, to maintain a high standard of scholarship, to recognize and encourage leadership, and to stimulate and develop a fine type of college woman. Membership is composed of a total of not less than five or more than 25 girls from the senior class selected on the basis of service, scholarship, and leadership.

*Maroon Key.* The men's sophomore honorary society, composed of 25 students recognized for leadership abilities and University services.

*Scrolls.* Women's sophomore honorary-service society, composed of 20 students elected at the end of the freshman year.

*Alpha Phi Omega.* A fraternity which renders various kinds of service to the University. The group is composed of former members of the Boy Scouts of America.

*Revelers.* A group of upperclassmen chosen to promote and encourage freshman interest and participation in campus activities.

### Fraternities and Sororities

Social fraternities on the campus include Alpha Epsilon Pi, Alpha Gamma Rho, Alpha Sigma Phi, Kappa Sigma, Lambda Chi Alpha, Phi Mu Delta, Phi Sigma Delta, Phi Sigma Kappa, Q.T.V., Sigma Alpha Epsilon, Sigma Phi Epsilon, Tau Epsilon Phi, Tau Kappa Epsilon, Theta Chi. An Inter-Fraternity Council, consisting of representatives of these fraternities, has charge of rushing and all general matters dealing with fraternity life. A cooperative organization—The Fraternity Managers' Association—pools the financial resources of all fourteen fraternities for purposes of effecting orderly, economical purchasing and accounting procedures. A professional Fraternity Manager, with offices in South College, administers the Association's program.

Sororities include Chi Omega, Gamma Chi Alpha, Kappa Alpha Theta, Kappa Kappa Gamma, Phi Delta Nu, Pi Beta Phi, Sigma Delta Tau, and Sigma Kappa. The Panhellenic Council, made up of representatives from the sororities, supervises rushing and other sorority matters.

## STUDENT ORGANIZATIONS

### Campus Publications

*The Collegian.* Tri-weekly newspaper published by undergraduates.

*The Literary Magazine.* Magazine for the publication of literary and artistic efforts of undergraduates.

*Ya Hoo.* Campus humor magazine, published three times a year.

*Engineering Journal.* Quarterly open to science and engineering students for the publication of technical articles and essays of general interest.

### Dramatics

*The Roister Doisters.* The University's drama club, the Roister Doisters, is open to all four-year students interested in any phase of the art of the theater. Regular performances of major plays gives members excellent opportunities for gaining experience in acting, production techniques, and other aspects of dramatic presentation.

### University Music Organizations

Campus music organizations provide experience in musical and allied activities for performers and technicians with various kinds of interest and ability. Membership is open to all students, faculty, alumni, and others in the area community.

*Bands.* The Concert, Marching, and Dance Bands are formally organized groups in which student instrumentalists may participate. Informal ensembles for special occasions are also available.

*Chorale.* The University's choral group rehearses notable works for presentation on campus and on tour. Smaller choral ensembles are trained for special musical events.

*Operetta Guild.* The Guild produces standard works from the repertoire of American musical theater. Membership is open to persons interested in an art form which provides experience in many elements of musical performance as well as in staging, acting, and other theater activities. The Guild sponsors an Opera Workshop each year as well as miniature musical theater groups.

*Concert Association.* The Association offers students an opportunity to stage professional concerts and recitals and to administer a large-scale annual enterprise involving major financial and promotional concern. The Association each year presents distinguished attractions including national symphony orchestras, outstanding operatic performers, instrumental virtuosi, and other offerings.

## STUDENT ORGANIZATIONS

### Professional Clubs

Numerous professional clubs, established in connection with the various major courses of study, stimulate students' professional interest in their chosen fields and afford opportunity for discussion of technical subjects of mutual interest.

### Intercollegiate and Intramural Athletics

The University believes there are educational advantages in a well-organized intercollegiate and intramural sports program. In intercollegiate athletics, the University is represented by teams in all the leading sports, including football, soccer, cross-country, basketball, swimming, wrestling, indoor and outdoor track, hockey, rifle and pistol, baseball, tennis, golf, lacrosse, gymnastics, skiing.

The University also supports a broad program of intramural activities, in which all students are encouraged to participate. The range of sports available each year includes the team sports of touch football, basketball, softball, volleyball. Individual activities include tennis, bowling, badminton and golf.

The University Intercollegiate Athletic Program is supervised by the University Athletic Council and is composed of the following members: five faculty members appointed by the President, three alumni representatives appointed by the Directors of the Alumni Association, the Executive Director of the Alumni Association, and ex officio, the Director of Athletics.

The University of Massachusetts is a member of the Yankee Conference, the National Collegiate Athletic Association, the Eastern College Athletic Conference, the Association of New England Colleges for Conference on Athletics, and the Intercollegiate Athletic Association.

## ACADEMIC HONOR SOCIETIES

*Phi Kappa Phi.* The Honor Society of Phi Kappa Phi is a national organization, and has been represented on this campus since 1904. Its primary objective is the recognition and encouragement of superior scholarship in all fields of study. Good character is an essential supporting attribute. The Massachusetts chapter elects undergraduates in either their junior or senior years. Members of the Faculty and graduate students are also eligible for election.

*Sigma Xi.* The Society of the Sigma Xi is the national honor society whose objective is the encouragement of original investigation in science, pure and applied. Since 1938, a chapter of the Society has been active on the campus of the University. The Chapter may elect to associate membership undergraduate students who have shown marked excellence in the study of recognized fields of the sciences and engineering. Election to full membership is accorded those who have clearly demonstrated ability to pursue independent scientific research. The Chapter sponsors a program of public lectures and a number of awards designed to foster the objectives of the Society.

*Sigma Gamma Epsilon.* The Beta Theta chapter of the Sigma Gamma Epsilon Fraternity was installed at the University of Massachusetts in 1951. The purpose of the fraternity is to stimulate scholastic, scientific, and social advancement of students of the earth sciences in universities and scientific schools with recognized standings in the United States and Canada. Membership is open to men majoring in geology, mining, metallurgy, ceramics, petroleum engineering, or other branches of earth sciences, who meet the requirements of the fraternity.

*Omicron Nu.* The Alpha Pi chapter of the Society of Omicron Nu was installed on the campus in 1952. The purpose of the society is to recognize superior scholarship and to promote leadership and research in home economics. Membership is open to juniors and seniors majoring in home economics who meet the requirements of the society.

*Phi Tau Sigma.* Phi Tau Sigma Honorary Society is the international honor society for food science. It was founded at the University of Massachusetts in 1953, and its executive headquarters are permanently located here. Its purpose is to encourage and recognize achievement in food science. Senior students from all

departments related to food science are eligible for election to membership if they meet scholastic and character requirements of the University Chapter.

*Tau Beta Pi.* The Massachusetts Zeta Chapter of Tau Beta Pi was installed on campus in the fall of 1955. The society exists for the purpose of honoring engineering students of high scholarship, character, and interest in campus activities. Senior and junior students in the School of Engineering are eligible for election to membership if they meet the requirements.

*Beta Gamma Sigma.* The Gamma Chapter of the University of Massachusetts was installed in 1959. The purposes of the Society are to encourage and reward scholarship and accomplishment among students in commerce and business administration; to promote the advancement of education in the art and science of business; and to foster integrity in the conduct of business operations.

*Alpha Lambda Delta.* The Scholastic Honor Society for Freshman Women was installed at the University of Massachusetts as a chapter of Alpha Lambda Delta, national honor society, in 1960. The purpose is to promote intelligent living and to encourage superior scholastic attainment among freshman women. Members are students who achieve averages of 3.5 or above in the first semester or in cumulative average at the end of the first year of college.

*Phi Eta Sigma.* The Society of Phi Eta Sigma was installed on the campus in 1955. The purpose of the society is to recognize outstanding scholastic achievement by freshmen men and to encourage a higher standard of learning among all freshmen. Honorary membership is granted those faculty members who are most effective in encouraging students in the attainment of these goals.



## UNDERGRADUATE CURRICULA

Undergraduate instruction is provided in the College of Arts and Sciences, the College of Agriculture, the Schools of Business Administration, Education, Engineering, Home Economics, Nursing, and Physical Education.

This section of the catalogue deals with the opportunities for study and the curricula available in each of these departments of the University.

### COLLEGE OF ARTS AND SCIENCES

I. MOYER HUNSBERGER, *Dean*

The College of Arts and Sciences offers instruction in the fine arts, the humanities, the social sciences, the natural sciences, and mathematics both for students enrolled in the College and for those in other undergraduate divisions of the University. The program provides for the breadth of intellectual development essential to a liberal education and for concentration which is the necessary foundation for competence in a selected discipline.

The Bachelor of Arts degree may be earned by students majoring in any division of the College. The Bachelor of Science degree may be earned by students in the natural sciences or mathematics.

## MAJORS

### Art

The department of art is interested in providing two kinds of training: first, to give each student a good general historical and aesthetic knowledge of the arts; second, to give each student an opportunity to develop his creative ability in the several media of the arts. Majors will have specialized sufficiently to allow them to enroll in a professional art school at an advanced level, or to take jobs upon graduation in business or cultural organizations where some facility in the arts is required.

By arrangement with the School of Education, courses can be so arranged that an art major will secure the necessary credits in education to allow him to teach art in the public schools.

## **Astronomy**

A Department of Astronomy conducted jointly with Amherst, Mount Holyoke, and Smith College provides instruction in this field. All advanced courses are given on a joint basis for students from the four participating institutions.

The Department of Astronomy offers courses which furnish (1) specialization for those planning a career in astronomy and (2) a background for students in other departments who are interested in astronomy for its cultural or scientific value.

## **Bacteriology**

The courses in bacteriology have been planned to furnish (1) a basic and applied training for students majoring in other departments who must have some knowledge of bacteria and (2) specialization for those contemplating a professional career in bacteriology.

## **Botany**

Programs in botany prepare students for teaching and research in biological sciences in high schools, universities, industry, and experiment stations.

## **Chemistry**

The prime purpose of the Department of Chemistry is to offer sound preparation for graduate study in chemistry. Accordingly, emphasis is placed upon intellectual accomplishment and broad understanding rather than on terminal training for specific chemical tasks. The program designed for this purpose also affords sound preparation for direct entry into chemical industry, chemical institutes, or governmental laboratories. A slightly modified program permits preparation for secondary school teaching.

## **Economics**

In economics the aims are twofold: (1) to give the student an understanding of economic theory and of the application of economic principles to the organization of society; (2) to provide students with the elementary training necessary for further study and solution of economic and business problems.

## **English**

The major in English affords the student opportunities to improve his knowledge of the English language and his ability to use it clearly, logically, and artistically; to increase his knowledge of Western literature written in English or translated with distinction into English; to read and discuss a literary work with perception and understanding, and to form an independent estimate of it by valid critical standards. Apart from its value as liberal education, such a program is especially helpful to students whose interests lie in writing, editing, criticism, and teaching.

## **Geology**

For students considering geology as a career, the opportunities are many. Those interested primarily in basic science may look to positions in teaching, in museum work, on state and federal surveys, and in various research organizations. Those concerned mainly with applied science may direct their efforts toward work in mining geology, petroleum geology, engineering geology, and ground-water geology, and industrial mineralogy.

## **German**

The courses in German are intended to give a practical knowledge of the language for the purpose of wider reading, research, and oral communication.

## **Government**

The courses offered by the department of government are designed to aid the student in gaining a knowledge of the nature, functions, and problems of government, and of the place of government in the modern world. Political theory, constitutional law, international relations, comparative government, politics and public administration are the principal areas covered.

## **History**

Courses in history are designed to provide an understanding of man through a study of patterns of development in the past. The study should also give the student an introduction to major problems in world affairs.

A major in history has value to the general student as a humanistic discipline. It has application as preparation for careers in fields of teaching, law, government, journalism, ministry, library and business.

## **Journalism**

The journalism program is concerned with (1) the study of writing and of communication problems relevant to the media of mass communication, and (2) the best utilization of the University's liberal education resources by students who plan careers in newspaper work, communications research, public relations, magazine and radio journalism, or some other field of communications.

For such students the journalism courses are intended to provide both increased communication skill and relevant background. The courses may have special value also for students who plan to go into government service, law, education, and similar fields in which knowledge of the process and effects of communication is particularly useful.

## **Mathematics**

The department offers courses designed to furnish a cultural

background as well as a foundation for both undergraduate and graduate work in such fields of science as physics and chemistry, in engineering and in other technical subjects.

The courses recommended for majors in the department are designed to prepare students for high school teaching, graduate study in mathematics, actuarial work, statistical work, or work in industry.

## **Music**

The Department of Music offers both a major program and a program of continuing study for non-majors. The areas covered by courses are: 1) Music Appreciation, Literature, and History, 2) Theory and Composition, 3) Music Education, 4) Applied Music, a) Ensembles, instrumental and choral, b) Individual Instruction in voice, piano, organ and orchestral and band instruments.

Possible fields of concentration are music theory, music history, and music education. In conjunction with other departments, and occasionally with nearby colleges, special programs are available in recreation, radio and television, graduate studies, Church Music, Musical Performance, and Music Therapy.

Arrangements for Individual Instruction (area 4b), including those for fees and practice, are made through the Department of Music Office. All credits in area 4b will be recorded, but will not be applicable to graduation credit in excess of 3 hours.

## **Philosophy**

Philosophy seeks a comprehensive understanding of the various areas of man's experience in their interrelatedness. In the context of the historically important theories, the courses concentrate on methods of inquiry into the persisting questions of philosophy, standards of thought, clarification of ethical and aesthetic values, and the basis of criticism.

## **Physics**

Courses are designed to accommodate students who desire specialized training in physics, and also to provide required or elected courses for students majoring in engineering, mathematics, chemistry, or other fields.

## **Pre-Medical and Pre-Dental Curriculum**

Pre-medical and pre-dental students are assigned to faculty advisers for their freshman year. At the end of their second semester, they will be assigned to a member of the Upperclass Committee who will be their adviser for the remainder of the course of study.

Pre-veterinary students may register in the College of Agriculture or College of Arts and Sciences. In the latter case, they will be assigned to advisers in the same manner as the other pre-professional students.

Medical schools do not look with favor on over-specialization in

any field. They stress the importance of a broad general education. Since the University requires that every student who graduates must have selected at least 15 credits of junior-senior courses in some one department, the pre-professional student should include courses beyond the introductory level in all fields, especially in the humanities and social sciences. The student decides on his electives only with the advice and consent of his adviser.

### **Psychology**

The courses in the psychology department are planned (1) to impart an understanding of behavior and the application of this knowledge to problems of human adjustment; and (2) to give preparation for professional work in psychology and related fields.

Careers open to psychology majors include: teaching and research, guidance and counseling, psychometrics, child welfare, clinical psychology, school psychology, social work, opinion polling, personnel and industrial work and engineering psychology. Graduate training is required for certain of these careers.

### **Public Health**

The curriculum in public health is designed to prepare a student for a health career. Career opportunities are open in: (1) administration of health services; (2) in basic sciences related to health; (3) in environmental health services; (4) in food and drug protective services; (5) in health education; and (6) in health information and communications.

### **Romance Languages**

Two majors are offered: French and Spanish. The courses of these curricula are intended to give 1) a thorough training in the language skills, 2) an appreciation of the aesthetic and intellectual qualities of the literatures, and 3) a serious insight into the cultures of the nations concerned.

### **Russian**

Students choosing Russian as their field of major concentration will receive training in reading, writing, speaking and understanding the language, and a knowledge of Russian literature. Russian majors will also acquire the background in Russian history, government and economy necessary for an understanding of the literature and culture of the Russian people.

Russian majors will be prepared to continue their education on the graduate level in the fields of Russian, Slavic Languages and Literatures, or Russian Area Studies.

### **Sociology and Anthropology**

The courses in sociology and anthropology are planned with two aims in view: to give the student an understanding of the factors

which influence men in their activities and interests as members of society, and to help prepare students for a wide variety of occupational outlets.

Students interested in teaching at the elementary or high school level should take a minor in the School of Education and at least 6 credits in American history with as many credits in American government as can be arranged.

Of the many opportunities in the field of social work, some are available to college graduates, while others require graduate training in a school of social work.

Aside from opportunities in the business world, many federal agencies and private research organizations seek people who are trained in the research techniques of sociology.

### **Social Work**

The American Association of Schools of Social Work indicates that the pre-professional subjects most closely related to professional work in this field are economics, political science, psychology, and sociology. The Association recommends that prospective students of social work or social administration take not fewer than 12 semester hours in one of these subjects while taking less in others.

### **Speech**

An undergraduate major in speech may be earned by completing thirty semester hours of course work in the department although nine of these may be earned in English and philosophy. Psychology 26 should be elected as a basic requirement. The student must select an area of concentration in (1) Rhetoric and Public Address, (2) Interpretation and Theatre, (3) Radio and Television, (4) Speech Education, (5) Speech and Hearing Therapy. Students concentrating in Speech and Hearing Therapy may fulfill all the certification requirements of the American Speech and Hearing Association and the Massachusetts State Department of Education. Students interested in preparation as public school therapists should plan to minor in the School of Education. For those interested in work in a rehabilitation or hospital setting, a minor in psychology should be planned.

### **Zoology**

The courses in zoology have two major aims: (1) to offer students an opportunity to develop an understanding and appreciation of the scientific method as a part of a liberal education; and (2) to provide training for prospective graduate students in biology, medicine, dentistry, and related fields, as well as future teachers and laboratory technicians in the biological sciences.

## COLLEGE OF AGRICULTURE

ARLESS A. SPIELMAN, *Dean*

The College of Agriculture offers a broad general education with specific training in a specialized area. Upon the completion of the requirements for graduation, the student will have devoted about one-quarter of his time to pure science, one-quarter to social and humanistic studies, and about one-half to applied science and technology.

A broad choice of electives within the required courses of each curriculum gives the student the opportunity to prepare for a career in research, industry, business, education, conservation, services, or farming.

Each department of the school has specific requirements for graduation which are included in the descriptive matter under the name of the department.

During the first semester of the freshman year, students interested in teaching vocational agriculture, extension work, or specializing in research work, should consult with the head of the department in which they plan to major.

The College has the following departments: Agricultural and Food Economics, Agricultural Engineering, Agronomy, Dairy and Animal Science, Entomology and Plant Pathology, Food Technology, Forestry and Wildlife Management, Horticulture, Landscape Architecture, Poultry Science and Veterinary Science. Students may major in any of these departments except Veterinary Science; pre-veterinary students are counseled in either Arts and Sciences or Agriculture.

## MAJORS

At the end of the sophomore year each student selects one of the following curricula as his major to complete his collegiate training.

### **Agricultural Business**

This curriculum is designed 1) to prepare students for employment in executive positions with firms related to agriculture or for administrative positions with governmental agencies concerned with agriculture and 2) to give the essential undergraduate preparation for a career in agricultural economics, in research, teaching, or extension work. The course of study, which leads to the degree of

Bachelor of Science, combines training in technical agricultural sciences with courses in business management and economics. The resources of the College of Arts and Sciences and of the School of Business are used in addition to those of the College of Agriculture in order to provide a body of course work which gives the student substantial technical training within the framework of a liberal college education.

### **Agricultural Engineering**

Agricultural engineering is concerned with the application of scientific engineering principles to agricultural production and related agricultural industries. This professional field includes engineering activities related to the design, development and use of mechanical and electrical equipment; farm structures; and soil and water control systems for the production, processing and preservation of agricultural products and the improvement of rural living. Agricultural engineers are employed by a variety of agricultural industries and organizations for research, development, teaching, and promotional activities.

The program is designed to provide sound training for the agricultural engineering profession. The student majoring in this field will take his freshman and sophomore work at the University and then, under a cooperative agreement, complete his Bachelor of Science program at the University of Maine.

### **Agronomy**

The curricula provide basic education and training in soil science, crop science and agrostology. There is sufficient flexibility within the curricula to allow specialization in crops, soils or fine turf.

### **Animal Science**

The animal science curriculum is designed to provide the student with fundamental training in the nutrition, physiology, breeding, selection and management of farm animals.

The curriculum is made flexible by permitting specialization in optional fields which prepare the student for positions in dairy or livestock production and marketing, in agribusiness or in education and extension, through electives chosen from the fields of agronomy, agricultural engineering, economics and veterinary medicine. Options emphasizing basic sciences are also available for those preparing themselves for graduate work in such specialized areas of animal science as nutrition, physiology of reproduction or genetics.

### **Dairy Technology**

Major students in dairy technology receive training in the testing, handling, and processing of milk, ice cream, butter, cheese, and



other milk products. Practical application is made of chemistry, bacteriology, economics, and engineering in the many phases of dairy work.

Dairy technology graduates may secure responsible positions with commercial dairy manufacturing firms, or with equipment and supply firms. Opportunities are offered in the fields of extension, research, and for sanitation and public health work with city, state or federal agencies.

## **Entomology**

Courses in entomology acquaint students with all phases of insects and insect control, as well as beekeeping. Trained entomologists find positions in public service and industry, such as teaching at all levels; research, quarantine and regulatory work in State or Federal Service; various roles in public health and pest control activities; research, sales and public relations work in the agricultural chemicals industry; and commercial beekeeping.

## **Food Distribution**

This course of study is designed to prepare students for careers in management in the food industry and in government agencies concerned with food production, processing and marketing. The curriculum leads to the degree of Bachelor of Science. Substantial emphasis is given to training in the scientific and technical principles that underlie modern food processing and marketing. In addition, the curriculum includes courses in business management and in economics plus specialized courses in food marketing and merchandising.

## **Food Management**

The curriculum in food management is offered by the food technology department. The program is designed to give the student a general well-rounded background of arts and sciences, coupled with training in subjects useful to the hotel and restaurant industries. The nature of the food service industry requires persons with broad, general backgrounds of business training coupled with a scientific knowledge of foods.

## **Food Technology**

The department of food technology offers two curricula: Food Management and Food Technology.

The curriculum in food technology provides scientific and applied training in the principles concerned with the processing, preservation, and packaging of foods and food products. The student's background in chemistry, physics, and bacteriology is applied to

food technology problems and food analysis. Major fields open to graduates include: (1) technical and production work in the food industries; (2) control and analytical work related to food products; (3) government food inspection and grading; (4) technological work and research in government, industry, and education.

### **Forestry**

The technical curriculum in forestry is concentrated in the field of forest production and management, and leads to the degree of Bachelor of Science. It has professional status, being accredited by the Society of American Foresters. Graduates are prepared for employment with Federal and State agencies and in private industry. The curriculum emphasizes the multiple-use concept of forest land management, and stresses the scientific and economic foundations of forestry rather than methods. The first two years are devoted largely to science, English, and other cultural-foundational subjects, the last two years mainly to professional subjects of the major.

### **Horticultural Science**

The major in Horticultural Science permits specialization in any one of the following areas: Floriculture, Olericulture, Pomology. Each of these areas provides basic training in the scientific principles and applied practices relative to the production and marketing of their respective crops—flowers, vegetables, and fruits. Principal areas of employment open to graduates include: (1) teaching in secondary schools; (2) wholesale and retail marketing; (3) service personnel for industrial concerns manufacturing equipment and supplies used in the production and distribution of horticultural crops; (4) commercial production; (5) graduate study leading to professional careers in college teaching, research, and extension with state, federal or private agencies. Each program of specialization also provides ample opportunity for supporting elective courses which will better fit the student for his special objective.

### **Landscape Architecture**

Students following this curriculum are prepared to take up work in landscape architecture, which leads through field experience or post-graduate study to permanent establishment in the profession.

### **Plant Pathology**

Plant pathology is concerned with the nature and control of plant diseases caused by fungi, viruses, bacteria, nematodes, certain higher plants and unfavorable environmental conditions. Plant pathologists fill positions in public service and in industry, such

as teaching at all levels; research in state, federal, university, and industrial laboratories and experiment stations; and extension service through federal, state, and county organizations. They are employed in quarantine and regulatory work, in various roles in plant disease control, and in sales and public relations work in agricultural chemical industries.

### **Poultry Science**

Two general areas of study are available to the student majoring in this department depending on interests and abilities.

(1) Poultry Production and Management—This plan of study will prepare students for farm operations either as owners or managers; as servicemen, specialists and managers in industrial fields; and for federal and state extension work and regulatory programs allied to the poultry industry. The program is supported by electives in business, agricultural economics and communicative skills.

(2) Poultry Science—This program is primarily for students interested in and capable of graduate work leading to careers in poultry science teaching and research and as agricultural scientists with breeding organizations, feed manufacturers and pharmaceutical corporations. Students interested in poultry science supplement the basic curriculum with basic sciences chosen to support further study in poultry genetics, physiology, nutrition and products technology.

### **Veterinary Science**

Though major work in Veterinary Science is not available, the department offers supporting courses to assist students who expect to enter the various fields of agriculture, wildlife management, public health, teaching and laboratory work in the biological sciences.

### **Wildlife Management**

Wildlife management is concerned with the production and control of animal populations on farms, forests, waste lands and water areas. Thus an understanding of both the origin and management of land and water is necessary. These background phases include geology, agronomy, forestry, and agriculture. Fields of specialization include game and furbearer management, control of injurious animals, and related fields.

Studies in wildlife management are closely correlated with the work of the Massachusetts Department of Natural Resources and the U. S. Fish and Wildlife Service.

# SCHOOL OF BUSINESS ADMINISTRATION

H. B. KIRSHEN, *Dean*

The School of Business Administration prepares students to take advantage of important economic opportunities and eventually to assume positions of responsibility in business. The School's educational program is directed toward the professional aspects of business, encouraging high standards of ethical conduct, broad social responsibilities and the development of competence in particular courses of study of the student's own interest, aptitude and choice.

The first two years emphasize general education by providing fundamental courses in the humanities, mathematics, science and social science. In addition, basic courses in accounting and economics prepare the student for further work in the School of Business Administration. The first two years are largely prescribed.

The School of Business Administration is a member of the American Association of Collegiate Schools of Business.

Courses and major programs are listed under four departments in the School of Business Administration: Accounting, General Business and Finance, Management, and Marketing. Irrespective of any major selected a certain "core" of courses is required of all students.

## MAJORS

### Accounting

The accounting program is designed to prepare students for public accounting and for positions as accountants in business, industry and government.

### General Business and Finance

The department has three major programs: *Finance, Business Administration and Economics*, and *General Business*. The curriculum in finance is directed towards the fields of banking, investment, brokerage, insurance or governmental agencies concerned with finance. The curriculum in Business Administration and Economics comprehends a wider field to balance a knowledge of both economics and business. The curriculum in General Business was designed for students who do not wish to specialize in any particular field.

### Management

Industry and business offer qualified students an opportunity to find careers in General Management, Production Management, and in Personnel Management and Industrial Relations. Course programs are offered in each of these fields and provide the student both a specialized and a comprehensive understanding of the managerial process in industrial enterprises.

## **Marketing and Merchandising**

Students in marketing prepare for a variety of positions in wholesale and retail enterprises and in the sales activities of manufacturers. The program includes specialized study of basic types of market operations such as advertising, sales management and retailing.

## SCHOOL OF EDUCATION

A. W. PURVIS, *Dean*

The School of Education through its undergraduate program seeks to utilize the forces of the University to prepare teachers for elementary and secondary schools and through its graduate offering to prepare administrators and specialists in public education. Its program is based upon the assumption that teachers and other school personnel should have a broad liberal education, considerable mastery of at least one field, and professional courses which should lead to a knowledge of the persons to be taught, familiarity with the problems to be met, and practice in the best techniques of teaching and supervision. In all of this the School of Education takes the position that teacher education is a University function and that success will come only if the School is successful in maintaining the closest possible relationships with other schools and departments that contribute to the program.

All students who contemplate teaching as a career should register early, in their freshman year if possible, with the School of Education although their courses in education do not begin until the junior year. In general, students are admitted without question to the various service courses of the junior and senior years, but admission to the teacher-training program of the concentrated semester block is determined by a composite rating based on scholarship as shown by University grades (a three-year average at least as high as the University median is desired), success in the beginning courses in education, recommendations of University teachers in general education fields, and personality ratings by members of the staff.

### **Elementary School Teaching**

Candidates for this program major in elementary education. In certain cases, with the approval of the Dean of the School of Education, the student may be permitted to major in some department of the College of Arts and Sciences where the general education program is deemed the equivalent of that designed for elementary education majors.

## **Secondary School Teaching**

All candidates for secondary school teaching will major in the subject field to be taught and minor in education. A maximum of eighteen hours should be taken in this minor.

## **Special Field Programs for Prospective Teachers**

**In Vocational Agriculture.** This program is based on a cooperative agreement between the University and the Vocational Division of the State Department of Education which provides supervisors and consultants in conducting the program.

**In Home Economics.** These students will major in home economics and minor in education.

**In Teaching Coaching.** These students will major in physical education and minor in education.

**In Music.** These students will major in music and minor in education.

## SCHOOL OF ENGINEERING

G. A. MARSTON, *Dean*

The departments of chemical engineering, civil engineering, mechanical engineering and electrical engineering comprise the School of Engineering. Each department offers a curriculum leading to a Bachelor of Science degree in that particular branch. An optional curriculum in industrial engineering is offered in the mechanical engineering department.

All curricula are accredited by the Engineers Council for Professional Development.

Engineering can be defined as the combination of science and art by which materials and power are made useful to mankind. An engineer requires intensive technical training but at the same time he should acquire the broad education that distinguishes the professional man from the technician. His education does not end with formal schooling but continues throughout his life as he accumulates experience.

The curricula in engineering have been carefully prepared to offer each student the opportunity to acquire the sound training in mathematics and the basic sciences of chemistry and physics upon which is built the work in the engineering sciences. In the senior year courses are offered which enable the student to use his previous training for engineering analysis, design and engineering systems in his particular field of interest. About twenty per cent of his time is devoted to studies in the social science and humanistic area. Some opportunity is provided to elect courses from both the technical and humanistic-social fields.

The curriculum of the freshman year is the same for all. Specialization to a limited extent begins in the sophomore year.

## MAJORS

Majors in Engineering will select one of the following curricula.

### Chemical Engineering

Chemical Engineering is concerned with the development of manufacturing processes in which chemical or certain physical changes of materials are involved. These are resolved into a coordinated series of unit operations (physical changes) and unit processes (chemical changes). The work of the chemical engineer is primarily concerned with the design, construction, and operation of equipment and plants in which these are applied. Chemistry,



physics, and mathematics are the underlying sciences of chemical engineering, and economics is its guide in practice.

Chemical engineers are employed not only in industries manufacturing chemicals but in many others, such as petroleum refining, coal processing, refractories and clay products, cement, waste treatment, pulp and paper, rayon and textiles, paint and varnish, natural and synthetic rubber, foods, leather, plastics, soap, penicillin and other antibiotics. Much of the work of the atomic energy program is chemical engineering. The types of work done by chemical engineers include: design, construction, research, development, production, financial and patent appraisal, management, and sales.

### **Civil Engineering**

Civil engineering is concerned with structures, transportation, movement of fluids, use and storage of water, sanitation, and surveying and mapping. A civil engineer may be engaged in research, in planning and designing, in construction, or in maintenance and operation.

The curriculum gives a thorough training in the fundamental physical sciences and at the same time prepares a student for work in any branch of civil engineering, allowing him to specialize to some extent in whatever branch is most interesting to him—sanitation, mechanics and structures, hydraulics, foundation engineering, highway engineering.

### **Electrical Engineering**

Electrical engineering deals with the engineering applications of electricity. Because of its unusual amount of diversity, it is usually convenient to separate it into such main divisions as power, communications, electronics and control, and others.

The undergraduate curriculum is designed to prepare the student for work in any of these fields and to serve as a basis for further specialization. Courses in liberal arts and in engineering courses outside of the department give the student an understanding of the broader aspects of engineering and other fields.

### **Mechanical Engineering**

Mechanical engineering is that branch of the profession which, broadly speaking, covers the fields of heat, power, design of machinery, industrial management and manufacturing problems.

Building upon a foundation of mathematics, physics, and chemistry, the department of mechanical engineering undertakes to show the student how fundamental physical laws apply to this field and to give him thorough training in the basic principles so that particular applications can be mastered in professional practice. Therefore, no attempt is made to give highly specialized instruction.

## **Industrial Engineering Option**

Industrial engineering is concerned with the engineering aspects of the organization, operation and management of manufacturing plants. Consequently, the industrial engineering curriculum is built on a foundation of mechanical engineering. To the technical knowledge and scientific attitude developed through the study of engineering is added the study of certain courses in the humanities, in economics, and in management.

## **Agricultural Engineering**

For a description of the major program and the professional opportunities in this field see College of Agriculture.

## SCHOOL OF HOME ECONOMICS

MARION A. NIEDERPRUEM, *Dean*

The four-year integrated program in home economics prepares young women for challenging professional careers as dietitians in hospitals, clinics, hotels, in other institutions and as community nutritionists. Various opportunities are open in extension service, in family welfare organizations, in business and industry, where manufacturers and public utilities require the services of qualified home economists. Fashion, textiles, merchandising and retailing, journalism, advertising and television frequently turn to the home economist for their personnel. Home economics education prepares teachers for pre-school, secondary and adult teaching programs.

In addition to preparation for a career in one of these professions, the graduate home economist has developed an appreciation of the knowledge, understandings, attitudes and skills essential to the dual role of modern women in homemaking and community life.

### **Child Growth and Development**

Students interested in child development, nursery school work and social service work may choose this curriculum. The University has arranged for two affiliations for qualified students interested in taking one semester of specialized work elsewhere: with Merrill-Palmer School in Detroit, which specializes in education for home and family life, and with the Eliot Pearson School in Boston which gives professional training for teaching in nursery schools and kindergartens.

### **Foods and Nutrition and Institutional Administration**

This curriculum prepares for such professions as therapeutic and administrative dietitian, or nutritionist, and meets the requirements of internships approved by the American Dietetic Association. This basic curriculum is also advised for those interested in home service, food testing, commercial food demonstrating; commercial, industrial and institutional food service.

### **Pre-Research in Foods and Nutrition**

This curriculum is planned for the students who wish to prepare for graduate work in nutrition or biochemical research. The course should be planned with the advice of the Dean of the School.

## **Merchandising**

This curriculum provides an opportunity for girls interested in preparing for the merchandising field. The junior and senior curriculum includes courses in home economics and in business administration and should be planned with the faculty adviser by the end of the freshman year if possible. Students choosing this program should plan on at least a year of in-service training after college.

## **Home Economics Education and Extension**

Preparation for teaching demands the same basic courses whether a student plans to teach adults or 4-H Club groups in Extension, or young people at the high school or junior high school level. Teachers should be ready to teach some subject other than home economics if demanded; extension workers need special work in rural sociology and adult education. Courses in speech and writing are important. Camp teaching or apprentice training is recommended between junior and senior year.

## SCHOOL OF NURSING

MARY A. MAHER, *Dean*

The basic nursing program is designed to prepare the qualified high school graduate for a career in professional nursing, as well as for the responsibilities of family and community life.

The program aims to equip the graduate with those understandings and skills which are needed to function effectively in beginning positions in a variety of nursing situations. These include the ability to provide competent nursing care to patients and families in the hospital, home and community; to participate with allied professional and citizen groups for the improvement of total health services to individuals and communities; to participate in organizing, planning and directing the work of nursing auxiliary workers. A foundation is laid for advanced study, through which the nurse may prepare for positions in teaching, supervision, administration, consultation and research.

During the first two years at the University, the student builds an educational foundation upon which to base the more specialized portion of the program. Courses in the humanities and in the sciences—biological, physical and behavioral—are taken with other students on the campus.

The clinical aspects of the program are developed in the next two years, when instruction and correlated clinical practice are given in selected cooperating agencies by the nursing faculty of the University and the allied professional staffs of the cooperating agencies. These agencies include: the Springfield Hospital; the Wesson Maternity Hospital, Springfield; the Visiting Nurse Association of Springfield, the Springfield Health Department; and other community health, educational and welfare resources.

The Bachelor of Science degree, awarded upon successful completion of this program, qualifies the graduate for State Board Examinations in Nursing. If achievement in these examinations is satisfactory, the candidate receives legal status as a registered nurse within the state.

The program is fully accredited by the Accrediting Service of the National League for Nursing.

## SCHOOL OF PHYSICAL EDUCATION

W. P. McGUIRK, *Dean*

The School of Physical Education includes the Departments of Physical Education for Men, Physical Education for Women, Recreational Leadership, and Athletics. It offers a major in Physical Education, and in Recreational Leadership.

### PHYSICAL EDUCATION FOR MEN

#### General Program

Each male freshman and sophomore student, unless exempted under certain conditions, must successfully complete four semesters of physical education and demonstrate his ability to swim as a requirement for his degree. The physical education requirement does not apply to those students excused by the University physician, veterans of military service, and certain transfer students.

Students may receive credit for physical education, during the sport in season, by becoming squad members of any freshman or varsity team. Freshmen who elect an athletic team sport for physical education credit must rejoin their class sections at the termination of the seasonal sport. Students may not participate in a given sport for credit for more than two semesters.

To fulfill requirements, all students must participate in three team sports, four individual activities and aquatics.

#### Major Program

The major program leading to the degree of Bachelor of Science in physical education is designed to train the student for a career as a teacher of physical education. The curriculum combines both general and professional education and provides for full teacher certification for the student who has met the prescribed requirements of preparation. The program also provides for adequate training in a minor area of teaching, elected by the student, including the coaching of inter-school athletics.

### PHYSICAL EDUCATION FOR WOMEN

#### General Program

Physical Education is required of all women students during their freshman and sophomore years. The courses are planned to provide recreative activity, to improve individual skills, to develop body grace and efficiency and to increase health and vigor.

The first and second year women students are required to take three class hours a week for a total of eight credits, one for each quarter of satisfactory work.

## **Major Program**

The major course in physical education is planned to prepare women students for professional careers. Especial attention is given to preparing teachers for elementary and secondary schools in both physical and health education. Other areas for which the graduate will qualify are teaching sports and dance in social agencies, industrial plants, civic centers and camps. A foundation will be laid for specialization in graduate study.

The curriculum gives a broad general background as well as the professional preparation. There is opportunity for individual selection in order to provide a minor.

## **RECREATION LEADERSHIP**

### **Major Program**

The department seeks to prepare men and women for positions involving administrative, supervisory and program leadership responsibilities in municipal recreation agencies, voluntary and youth-serving agencies, hospitals, and industrial and institutional organizations.

The program is designed to provide opportunities for a general education, a knowledge and understanding of people and society, activity skills and resource knowledge, professional competency, and practical experience in various leadership situations.

In addition to completing the curriculum as described below, the student is required to:

- 1) attend a professional conference approved by the department;
- 2) participate in programming activities at the Student Union, with a scout troop, or in a similar setting approved by the department;
- 3) devote one summer (minimum of six weeks) to a recreation position, preferably with pay, in a camp, playground, or similar setting approved by the department.

## **DEPARTMENT OF ATHLETICS**

A comprehensive program of intercollegiate and intramural athletics is conducted by the department's coaching staff.

## DIVISION OF MILITARY AND AIR SCIENCE

The Division of Military and Air Science includes the Department of Military Science and the Department of Air Science. No major is offered in either department. All male students, except veterans, who intend to complete the necessary requirements leading to a degree in any four-year course at the University are required to complete the two-year basic course (Army or Air). Male students who are certified by the Director of the University Health Service as being not physically qualified are excused from attendance at military drill but are not excused from attendance at Military and Air Science classes. Conscientious objectors may apply to the President of the University for authorization to be excused from this requirement.

### DEPARTMENT OF MILITARY SCIENCE (Armor)

*ALBERT W. AKROYD, Lt. Col., Infantry, Head*

The Army Reserve Officers Training Corps is the means by which young men who have taken the leadership step of coming to the state university may assure themselves that their military service is performed in commissioned status.

The first two years are basic training in leadership and citizenship. The student is informed on the position of the military in the current scene and as it relates to his future.

The second two years of ROTC are not only elective, but selective. The best qualified volunteers are permitted to contract to continue on to a reserve commission. The Army provides these men a subsistence allowance and additional emoluments. There is a six-week training period between the junior and senior year.

Participation in ROTC has notable effect in character development. It also discloses to the army existing officer material and its potential leaders.

### DEPARTMENT OF AIR SCIENCE

*JOHN C. MARCHANT, Colonel, USAF, Head*

The mission of the department program is to develop in selected college students, through a permanent program of instruction, those qualities of leadership and other attributes essential to their progressive advancement to positions of increasing responsibility as commissioned officers in the United States Air Force. It is not expected that all so commissioned will select the USAF as a career; nevertheless, the program does offer an excellent means to prepare for such a career.

The first two years of instruction, the basic course, give a foundation for leadership and air and space age citizenship. The program of the last two years, advanced Air Force ROTC and four weeks of summer training at the end of the junior year, is designed



primarily to provide officer training for those selected and qualified for flight training and for technical or administrative assignments.

## RELIGION

### CHAPLAINS POWER, RUCHAMES, AND SEELY, *Advisers*

Although there is no department of religion at the University of Massachusetts, students interested in pursuing religion as an academic discipline have certain opportunities, both in curricular and co-curricular ways.

In the formal curriculum, courses are offered by several departments in the College of Arts and Sciences. Credit courses in history, such as those covering the ages of medieval civilization and of the Reformation, for example, afford systematic study into the religious institutions and movements of those periods. Similarly, those offered by the philosophy department in the Philosophy of Religion and in Oriental Philosophies provide a critical and constructive study of basic issues, in both the contemporary western world and Asia. Also, certain courses in other departments deal with matters of religion.

In addition to curricular work, students may learn from co-curricular programs of an academic nature offered by the Chaplains and the campus religious organizations. Each year classes (non-credit) are taught by the Chaplains and invited lecturers on topics such as Basic Beliefs and Practices of Judaism, Catholic Faith and Practices, Essentials of Protestant Christianity. Classes in Hebrew and Yiddish, study groups on various problems in campus living, and workshops on personal relations are also open to students.

The B'nai B'rith Hillel Foundation, the Christian Association, and the Newman Club frequently bring to the campus lecturers and scholars of national and international repute to speak at open meetings. Distinguished scientists, journalists, and government officials, as well as theologians and religious leaders, have come as guests of the religious organizations, and some provide leadership for large-scale events such as retreats, the Religious Embassy, and holy day observances. Lectures on religion are occasionally offered in a series of three or more under the leadership of well-known scholars and teachers. The educational and cultural programs of the campus religious organizations are open to all who are interested.





