# CORNELL UNIVERSITY OFFICIAL PUBLICATION

APRIL 6, 1952

# Independent Divisions and Departments

Division of Extramural Courses

Division of Unclassified Students

The Departments of

Military Science and Tactics

Air Science and Tactics

Naval Science

Physical Education, Men

Physical Education, Women

Clinical and Preventive Medicine



ANNOUNCEMENT FOR 1952-53 SESSIONS

# The University Calendar

## 1952-53

| Freshman Orientation begins Sept. 18, Thursday Registration Sept. 22–23, Monday and Tuesday Instruction begins Sept. 24, Wednesday, 1 p.m. Midterm grades due Nov. 12, Wednesday   |
|--|
| Thanksgiving recess:  Instruction suspended Nov. 26, Wednesday, 12:50 p.m. Instruction resumed Dec. 1, Monday, 8 a.m.  |
| Christmas recess:  |
| Instruction suspended Dec. 20, Saturday, 12:50 p.m. Instruction resumed Jan. 5, Monday, 8 a.m. Instruction ends Jan. 24, Saturday Second-term registration for first-term registrants Jan. 26, Monday Examinations begin Jan. 27, Tuesday Examinations end Feb. 4, Wednesday Midyear recess Feb. 5-6, Thursday-Friday Registration for those not first-term registrants Feb. 7, Saturday Instruction begins Feb. 9, Monday, 8 a.m. Midterm grades due March 28, Saturday |
| Spring recess:   |
| Instruction suspended  |
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# The Independent Divisions

## THE DIVISION OF EXTRAMURAL COURSES

ORNELL University offers credit courses through its Division of Extramural Courses for persons who are unable to devote full time as students in any one of the schools or colleges of the University. Persons served in this manner are nonresident in the usual sense of the full-time student, are employed in the professions, in industry, in business, in public service or otherwise, and for such reasons are unable to undertake full-time resident registration.

Courses are made available in off-campus centers located to suit the convenience of a sufficient number of students to warrant the offering, and through the facilities of the regularly scheduled course offerings on campus for the convenience of students who can commute to the campus. All such courses carry regular credit in the University. The credit may be used toward meeting requirements for graduate and undergraduate degrees, subject in any instance to the approval of the particular school or college concerned.

Extramural students may register for any course in the University for which they have adequate preparation to do the work required and for which they have the instructor's permission to enroll. The maximum registration permitted for a student in any term is two courses totaling not more than seven credit hours.

## THE DIVISION OF UNCLASSIFIED STUDENTS

The Division of Unclassified Students is designed to assist the potentially able student whose basic interests and aptitudes lie outside the course in which he originally enrolled. Any student who has been in residence as a candidate for a degree in any of the colleges or schools of the University may apply for admission.

The Division accepts applications for either semester. The student who feels that he is misplaced or is uncertain of his objective should consult the Director as early as possible in his college career. After the sophomore

year it is generally very difficult to effect a transfer.

Each student admitted to the Division is assigned a faculty adviser who will normally but not necessarily be a member of the Administrative Committee of the Division. As far as possible the adviser will be a member of the faculty of the school or college in which the student hopes to register. An unclassified student may, with the approval of his adviser, elect

courses for which he is qualified in any division of the University, subject, however, to the usual limitations on enrollment.

A student registered in the Division may apply for admission to any college or school of the University. In considering his application, the admissions committee of the school or college to which he applies will consult with the Director of the Division and the student's adviser and will take into consideration their recommendations and the quality of the work which the student has done during his registration in the Division. If at the end of two terms, he has not been accepted as a candidate for a degree in a school or college of the University, he may not be permitted to reregister in the Division except by special action of the Administrative Committee.

The Administrative Committee has the same authority to admit students, drop them, place them on probation, or remove them from probation that is exercised by a special faculty with respect to the students of its college. Students in the Division are regular students in the University; if in good standing they may participate, like any other students, in extracurricular activities.

# The Independent Departments

THE FOLLOWING information concerns the courses of information offered by the Departments of Military Science and Tactics, Air Science and Tactics, Naval Science, Physical Education, and Clinical and Preventive Medicine. These departments are similar in that they serve the entire University and are not divisions of any school or college.

CREDITS... In the course descriptions that follow the academic credit indicated will be recorded by the University Registrar for the successful completion of each course. Whether or not credit thus recorded will be counted by a college or school in satisfaction of its requirements for a particular degree is determined, however, by the faculty of the school or college concerned. For this information, the student should consult the Announcement of the academic division in which he is enrolled.

# UNIVERSITY FACULTY REQUIREMENTS

The University Faculty has established certain requirements for a baccalaureate degree in addition to those prescribed by the faculty of the school or college which administers the degree. These requirements are administered by the Committee on Requirements for Graduation. Any student who wishes to consult the Committee concerning his status should first consult the member of the Committee who represents the school or college in which he is enrolled. The Committee consists of the following:

W. H. Farnham, Chairman

Professor S. M. Barnette (College of Architecture)

Professor Donald English (College of Arts and Sciences)

Director A. W. Gibson (College of Agriculture)

Professor C. A. Hanson (School of Industrial and Labor Relations)

Director H. J. Loberg (College of Engineering)

Director H. B. Meek (School of Hotel Administration)

Professor Peter Olafson (Veterinary College)

Director B. L. Rideout (Division of Unclassified Students)

Professor Esther Stocks (College of Home Economics)

THE REQUIREMENT IN PHYSICAL TRAINING... The University Faculty has established the following requirements in physical training for all students:

1. All undergraduate students must complete four terms of work, three hours a week, in physical training.

- 2. The requirement in physical training is a requirement of the first four terms, and postponements are to be allowed only by consent of the University Faculty Committee on Requirements for Graduation.
- 3. Exemptions from the requirement may be made by the Committee on Requirements for Graduation when recommended by the Medical Office or by the Department of Physical Education, or because of unusual conditions of age, residence, or outside responsibilities. An exemption recommended by the Department of Physical Education shall be given only to students who meet standards of physical condition established by the Department of Physical Education and approved by the Committee on Requirements for Graduation. Students who have been discharged from the armed forces may be exempted.
- 4. For students entering with advanced standing, the number of terms of physical training required is to be reduced by the number of terms which the student has satisfactorily completed (not necessarily including physical training) in a college of recognized standing.

5. Responsibility for the interpretation of the requirement and for its application in individual cases is placed upon the Committee on Re-

quirements for Graduation.

The University requirement in physical training may be satisfied by four terms of work in the Department of Physical Education. For this purpose Physical Education 1, 2, 3, and 4 are available to men and Physical Education 51, 52, 53, and 54, to women.

THE REQUIREMENT IN MILITARY TRAINING... The University Faculty has established the following requirement in military training for male students.

- 1. "All undergraduate men students must complete four terms of work, three hours a week, in military training."
- 2. "The requirement in military training is a requirement of the first four terms, and postponements are to be allowed only with the consent of the University Faculty Committee on Requirements for Graduation."
- 3. "Exemptions from the military requirement may be granted to aliens, to conscientious objectors, and to students recommended for exemption by the University Medical Office. It is recognized that some other conditions, such as those of age, residence, or unusual outside responsibilities may be accepted as a basis for exemption within the judgment of the Committee on Requirements for Graduation."
- 4. "The requirement may be offset by work taken in military science in institutions of recognized collegiate standing and in military schools approved in this regard by the Department of the Army or the Department of the Air Force."
- 5. "For students entering with advanced standing, the number of terms of military training required is to be reduced by the number of terms

which the student has satisfactorily completed (not necessarily including military science) in a college of recognized standing."

- 6. "Responsibility for the interpretation of the requirement and for its application in individual cases is placed upon the Committee on Requirements for Graduation."
- 7. "Students who have been enrolled in the armed services are exempted from the requirement in military training by virtue of such service."

8. "A special student admitted for a period of less than two years is exempted from the requirement in military training during that period."

9. "A student who is enrolled in a regularly constituted reserve component of the armed forces and who is pursuing a training program approved by the Committee on Requirements for Graduation may be allowed to postpone the satisfaction of the military training requirement while he is so enrolled and any student who satisfactorily completes twelve months in such a program shall have thereby satisfied two terms of the University military training requirement."

The University Faculty requirement in military training may be satisfied by work taken in any one of three departments: the Department of Military Science and Tactics, the Department of Air Science and Tactics, or the Department of Naval Science. Each department offers a four-year course, the first two years of which satisfy the University requirement. An entering student will be assigned to one of these divisions prior to his registration in the University. This assignment will be made on the basis of his personal choice subject to quota limitations.

Specifically the requirement may be satisfied:

- (a) by four terms of work in the Department of Military Science and Tactics (Military Science 1, 2, and one of the following pairs: 23,24; 33,34; 43,44 or 53,54); or
- (b) by four terms of work in the Department of Air Science and Tactics (Air Science 1,2,3,4); or
- (c) by four terms of work in the Department of Naval Science while the student is registered either as a regular student or as a contract student in the Naval ROTC (Naval Science 101, 102, 201, 202). (Regular and Contract NROTC students are committed to continue in the NROTC program for four years.)

# MILITARY SCIENCE AND TACTICS

The four-year course presented by the Department of Military Science and Tactics has two objectives. The first is to promote national defense by laying the foundation of a citizenship which is cognizant and capable of its military responsibilities to the country. The second is to produce junior officers who have the attributes and knowledge essential to their continued development in the U.S. Army.

The first two years of this course, Basic ROTC, are part of the University requirements for a baccalaureate degree unless the student satisfies this requirement by other means. The third and fourth years, Advanced ROTC, are elective and qualify a student for appointment in the Officers' Reserve Corp, U.S. Army, or the Regular Army.

Specialized training is offered during the last three years of the course in four branches of the Army: Artillery, Ordnance, Quartermaster, and the Signal Corps; and for four years in the Veterinary Corps. The choice of one of these branches will be made prior to or upon enrolling in Basic ROTC, based on the student's personal election and subject to quota limitations. The Ordnance and Signal Units give preference to students enrolled in the Schools of Engineering or students from other colleges majoring in science. Pre-Veterinary students will comply with University requirements for Basic ROTC. Veterinary ROTC students take one hour of ROTC work per week throughout their four-year course. In the other Army branches, the Basic Course students take one hour of drill and two hours of classroom or laboratory work per week; and the Advanced Course students take one hour of drill and four hours of classroom or laboratory work per week.

1. BASIC ROTC. Fall term. Credit two hours. Hours: lectures or laboratories M and W 8 9 10 11 or 12; T Th 8 9 10 11 or 12; drill M T W Th or F 2-3.

Two hours a week lecture and practical application in military organization, military policy of the U.S., evolution of warfare, and map reading.

2. BASIC ROTC. Spring term. Credit two hours. Prerequisite, M.S. 1. Hours: lectures or laboratories M W 8 9 10 11 or 12: T Th 8 9 10 11 or 12; drill M T W Th or F 2-3.

Two hours a week of lecture and practical application in first aid, hygiene, weapons and marksmanship.

23. ARTILLERY BASIC ROTC. Fall term. Credit two hours. Prerequisite, M.S. 2. Hours: lectures or laboratories M W 8 or 10; T Th 8 10 or 11; drill M T W Th or F 2-3.

Two hours a week of lecture and practical application in artillery organization, materiel, and service of the piece.

24. ARTILLERY BASIC ROTC. Spring term. Credit two hours. Prerequisite, M.S. 23. Hours: lectures or laboratories M W 8 or 10; T Th 8 10 or 11; drill M T W Th or F 2-3.

Two hours a week of lecture and practical application in instruments, communications, motors and transportation, and tactics of the infantry squad.

25. ARTILLERY ADVANCED ROTC. Fall term. Credit three hours. Prerequisite, M.S. 24. Hours: lectures or laboratories M W F 8 or 11; T Th S 9 or 12; and common class M T W Th or F 3-4; drill M T W Th or F 2-3.

Four hours a week of lecture and practical application in communications, duties of Battery Executive, artillery tactics, and surveying.

26. ARTILLERY ADVANCED ROTC. Spring term. Credit three hours. Prerequisite, M.S. 25. Hours: lectures or laboratories M W F 8 or 11; T Th S 9 or 12; common class M T W Th or F 3-4; drill M T W Th or F 2-3.

Four hours a week of lecture and practical application in individual weapons,

preliminary marksmanship, and gunnery.

27. ARTILLERY ADVANCED ROTC. Fall term. Credit three hours. Prerequisite, M.S. 26. Hours: lectures or laboratories M W F 9 or 12; T Th S 10; and common class M T W Th or F 3-4; drill M T W Th or F 2-3.

Four hours a week of lecture and practical application in gunnery, surveying,

and the fire direction center.

28. ARTILLERY ADVANCED ROTC. Spring term. Credit three hours. Prerequisite, M.S. 27. Hours: lectures or laboratories M W F 9 or 12; T Th S 10; and common class M T W Th or F 3-4; drill M T W Th or F 2-3.

Four hours a week of lecture and practical application in command and staff,

combat intelligence, the military team, new developments, and tactics.

33. ORDNANCE BASIC ROTC. Fall term. Credit two hours. Prerequisite, M.S. 2. Hours: lectures or laboratories M W 10 or 11; T Th 8 or 11; drill M T W Th or F 2-3.

Two hours a week of lecture and practical application in the role of ordnance automotive materiel and small arms materiel.

34. ORDNANCE BASIC ROTC. Spring term. Credit two hours. Prerequisite, M.S. 33. Hours: lectures or laboratories M W 10 or 11, T Th 8 or 11; drill W Th or F 2-3.

Two hours a week of lecture and practical application in ammunition materiel, artillery materiel, and fire control materiel.

35. ORDNANCE ADVANCED ROTC. Fall term. Credit three hours. Prerequisite, M.S. 34. Hours: lectures or laboratories T Th S at 9 or 12; and common class W Th or F 3-4; drill W Th or F 2-3.

Four hours a week of lecture and practical application in functional organization of Ordnance Corps, automotive materiel, small arms materiel, and ammunition materiel.

36. ORDNANCE ADVANCED ROTC. Spring term. Credit three hours. Prerequisite, M.S. 35. Hours: lectures or laboratories T Th S 9 or 12; and common class W Th or F 3-4; drill W Th or F 2-3.

Four hours of lectures and practical application in ammunition supply, automotive materiel, artillery materiel, fire control materiel, individual weapons and marksmanship, and tactics of the rifle squad.

37. ORDNANCE ADVANCED ROTC. Fall term. Credit three hours. Prerequisite, M.S. 36. Hours: lectures or laboratories M W F 9 or 12; and common class W Th or F 3-4; drill W Th or F 2-3.

Four hours a week of lecture and practical application in maintenance and supply, command and staff, and combat intelligence.

38. ORDNANCE ADVANCED ROTC. Fall term. Credit three hours. Prerequisite, M.S. 37. Hours: lectures and laboratories M W F 9 or 12; and common class W Th or F 3-4; drill W Th or F 2-3.

Four hours a week of lecture and practical application in military specialty project.

43. SIGNAL CORPS BASIC ROTC. Fall term. Credit two hours. Prerequisite, M.S. 2. Hours: lectures and laboratories M W 10; T Th 8 or 11; W F 8; drill M or T 2-3.

Two hours a week of lecture and practical application in introduction to signal communications,

44. SIGNAL CORPS BASIC ROTC. Spring term. Credit two hours. Prerequisite, M.S. 43. Hours: lectures and laboratories M W 10; T Th 8 or 11; W F 8; drill M or T 2-3.

Two hours a week of lecture and practical application in organization and mission of the Signal Corps, organization and signal communication practices of infantry, armored, and airborne divisions.

45. SIGNAL CORPS ADVANCED ROTC. Fall term. Prerequisite, M.S. 44. Hours: lectures and laboratories T Th S 9 or 12; and common class M or T 3-4; drill M or T 2-3.

Four hours a week of lecture and practical application in communication security, signal orders, field wire communications, and field radio communications

fundamentals.

46. SIGNAL CORPS ADVANCED ROTC. Spring term. Credit three hours. Prerequisite, M.S. 45. Hours: lectures or laboratories T Th S 9 or 12; and common class M or T 3-4; drill M or T 2-3.

Four hours a week of lecture and practical application in applied signal communications, communication center, signal supply and repair, career guidance, weapons and marksmanship, and tactics of the rifle squad.

47. SIGNAL CORPS ADVANCED ROTC. Fall term. Credit three hours. Prerequisite, M.S. 46. Hours: lectures and laboratories M W F 9 or 12; and common class M or T 3-4; drill M or T 2-3.

Four hours a week of lecture and practical application in wire and radio com-

munication materiel.

48. SIGNAL CORPS ADVANCED ROTC. Spring term. Credit three hours. Prerequisite, M.S. 47. Hours: lectures and laboratories M W F 9 or 12; and

common class, M or T 3-4; drill M or T 2-3.

Four hours a week of lecture and practical application in higher echelon, signal communication and equipment, post signal operations and administrative procedure, career guidance, darkroom technique and photographic practices, command and staff, and combat intelligence.

53. QUARTERMASTER BASIC ROTC. Fall term. Credit two hours. Prerequisite, M.S. 2. Hours: lectures or laboratories M W 8 or 10; T Th 8 10 or

11; F 10-12; drill M T W Th or F 2-3.

Two hours a week of lecture and practical application in supply in the Army, organization of QM, classification of QM supplies, accountability and responsibility of property, and research and development of supplies in QMC.

54. QUARTERMASTER BASIC ROTC. Spring term. Credit two hours. Prerequisite, M.S. 53. Hours: lectures or laboratories M W 8 or 10; T Th 8 10 or 11; F 10-12; drill M T W Th or F 2-3.

Two hours a week of lecture and practical application in organization, functions,

and operation of QM units, unit and organizational supply.

55. QUARTERMASTER ADVANCED ROTC. Fall term. Credit three hours. Prerequisite, M.S. 54. Hours: lectures or laboratories M W F 8 or 11; T Th S 9 or 12; and common class M T W Th or F 3-4; drill M T W Th or F 2-3.

Four hours a week of lecture and practical application in station supply, depot

supply, storage, warehousing, and materiel handling.

56. QUARTERMASTER ADVANCED ROTC. Spring term. Credit three hours. Prerequisite, M.S. 55. Hours: lectures or laboratories M W F 8 or 11; T Th S 9 or 12; and common class M T W Th or F 3-4; drill M T W Th or F 2-3

Four hours a week of lecture and practical application in procurement, storage, and distribution of petroleum products, commissary operations, garrison and field bakery operations, post and field laundry operations, salvage operations and procedure, maintenance and reclamation of QM supplies, graves registration and mortuary activities, food service activities, individual weapons and marksmanship, and tactics of the infantry squad.

57. QUARTERMASTER ADVANCED ROTC. Fall term. Credit three hours.

Prerequisite, M.S. 56. Hours: lectures or laboratories M W F 9 or 12; T Th S 10; and common class M T W Th or F 3-4; drill M T W Th or F 2-3.

Four hours a week of lecture and practical application in fiscal procedures, procurement procedures, command and staff, combat intelligence, technical intelligence, and organizations and functions of the combatant arms.

58. QUARTERMASTER ADVANCED ROTC. Spring term. Credit three hours. Prerequisite, M.S. 57. Hours: lectures or laboratories M W F 9 or 12; T Th S 10; and common class M T W Th or F 3-4; drill M T W Th or F 2-3.

Four hours a week of lecture and practical application in organization and functions of the technical services, QM operations in the zone of the interior, and QM operations in the theater of operations.

61. VETERINARY BASIC ROTC. Fall term. Credit one hour. Hours: as

scheduled by the Veterinary College.

One hour of lecture and/or recitation a week in military policy of the United States, National Defense Act and ROTC, organization of the Departments of the Army and Air Force and the Medical Services of each, courtesies and customs of the Service, veterinary military history, military obligations of citizenship, duties of the veterinarian.

62. VETERINARY BASIC ROTC. Spring term. Credit one hour. Hours: as

scheduled by the Veterinary College. Prerequisite, M.S. 61.

One hour of lecture and/or recitation a week in map and aerial photograph reading, general military administration, military law, personnel management, general consideration of Army and Air Force Veterinary Services, military leadership and mobilization.

63. VETERINARY BASIC ROTC. Fall term. Credit one hour. Hours: as

scheduled by the Veterinary College. Prerequisite, M.S. 62.

One hour of lecture and/or recitation a week in medical supply procedures. veterinary administration, map and aerial photograph reading, military leadership.

64. VETERINARY BASIC ROTC. Spring term. Credit one hour. Hours: as scheduled by the Veterinary College. Prerequisite, M.S. 63.

One hour of lecture and/or recitation a week in Army and Air Force Veterinary Services in the Zone of Interior and Theater of Operations, veterinary research and development, organization and employment of Medical Service of a field army, animal management.

65. VETERINARY ADVANCED ROTC. Fall term. Credit one hour. Hours:

as scheduled by the Veterinary College. Prerequisite, M.S. 64.

One hour of lecture and/or recitation a week in Army and Air Force as a career, techniques of instructing, military leadership, subsistence procurement, physical examination of animals.

66. VETERINARY ADVANCED ROTC. Spring term. Credit one hour. Hours: as scheduled by the Veterinary College. Prerequisite, M.S. 65.

One hour of lecture and/or recitation a week in veterinary food inspection service.

67. VETERINARY ADVANCED ROTC. Fall term. Credit one hour. Hours: as scheduled by the Veterinary College. Prerequisite, M.S. 66.

One hour of lecture and/or recitation a week in transportation of animals, military leadership, veterinary preventive medicine, veterinary aspects of atomic warfare, veterinary aspects of chemical warfare.

68. VETERINARY ADVANCED ROTC. Spring term. Credit one hour. Hours: as scheduled by the Veterinary College. Prerequisite, M.S. 67.

One hour of lecture and/or recitation a week in food products inspection.

# AIR SCIENCE AND TACTICS

The students enrolled in courses in the Department of Air Science and Tactics constitute the Cornell Unit of the Air Force Reserve Officers' Training Corps. This corps has two missions. The first is to lay the foundations of intelligent citizenship and to give the student such basic military training as will be of benefit to himself and to the military service if he becomes a member thereof. The second is to produce junior officers who have the qualities and attributes essential to their progressive and continued development as officers of the United States Air Force.

The course of instruction is four years in duration. Completion of the first two years satisfies the University requirement in military science (see page 00.) The third and fourth years of instruction for Advanced Air Force ROTC are elective, and successful completion qualifies the student for appointment as a Second Lieutenant in the United States Air Force Reserve. No flying training is offered in this program; students

are trained for ground duty with the Air Force.

The Air Force offers four courses of specialization to Adanced Course students: Administration and Logistics, Armament, Communications, and Flight Operations. Selection of students to continue in the Advanced Course in one of these specialties is made in the second year of Air Force ROTC instruction. Engineering students and others majoring in mathematics, physics, or other technical fields are eligible for selection in Armament or Communications. Students who are pursuing nontechnical academic courses are eligible for Administration and Logistics. Students enrolled in any college or school in the University, interested in flying training with the Air Force after graduation, should apply for Flight Operations. Physical requirements for entry into this specialty are somewhat higher than for the other three specialties.

1. BASIC AIR FORCE ROTC. Fall term. Credit two hours. Hours: M W 8 10 11 or 2; T Th 8 10 11 12 or 2 or F 10-12; and, in addition, M T W Th or F 3-4.

Two hours a week of instruction in world political geography, and one hour a week of leadership, drill, and exercise of command.

2. BASIC AIR FORCE ROTC. Spring term. Credit two hours. Prerequisite, Basic Air Force ROTC 1. Hours: M W 8 10 11 or 2; T Th 8 10 11 12 or 2; F 10-12; and in addition M T W Th or F 3-4.

Two hours a week of instruction in world political geography, and one hour

a week of leadership, drill, and exercise of command.

3. BASIC AIR FORCE ROTC. Fall term. Credit 2 hours. Prerequisite, Basic Air Force ROTC 2. Hours: M W 8 10 11 or 2; T Th 8 10 11 12 or 2; and, in addition, M T W Th or F 3-4.

Two hours a week of instruction and practical application in organization for the defense of the United States; personal maintenance, and aerodynamics and propulsion. One hour a week of leadership, drill, and exercise of command.

4. BASIC AIR FORCE ROTC. Spring term. Credit two hours. Prerequisite,

Basic Air Force ROTC 3. Hours: M W 8 10 11 or 2; or T Th 8 10 11 12 2; and, in addition, M T W Th F 3-4.

Two hours a week of instruction and practical application in meteorology, maps, aerial photographs and aerial navigation, and applied air power. One hour a week of leadership, drill, and the exercise of command.

75. ADVANCED AIR FORCE ROTC. Administration and Logistics. Fall term. Credit three hours. Prerequisite, Basic Air Force ROTC 4. Hours: T Th S 8 and Th 2, F 8 or F 2; T Th S 9 and Th 2, F 8 or F 2; T Th 12, S 10 and Th 2, F 8 or F 2; and in addition, M T W Th or F 3-4.

Four hours a week of instruction and practical application in air operations, administration, and Air Force transportation. Open to juniors pursuing a non-technical curriculum. One hour a week of instruction and practical application in leadership, drill, and exercise of command.

76. ADVANCED AIR FORCE ROTC. Administration and Logistics. Spring term. Credit three hours. Prerequisite, Advanced Air Force ROTC 75. Hours: first section, T Th S 8, and Th 2, F 8 or F 2; second section, T Th S 9 and Th 2, F 8, or F2; third section, T Th 12 S 10 and Th 2, F 8, or F 2; and, in addition M T W Th or F 3-4.

Four hours a week of instruction and practical application in Air Force transportation and supply. One hour a week in instruction and practical application in leadership, drill, and exercise of command. Open to juniors pursuing a nontechnical curriculum.

77. ADVANCED AIR FORCE ROTC. Administration and Logistics. Fall term. Credit three hours. Prerequisite, Advanced Air Force ROTC 76. Hours: first section, M W F 8 and M 2; second section, M W F 9 and T 2; third section, M W F 12 and F 2; and, in addition, M T W Th F 3-4.

Four hours a week of instruction and practical application in career development, food service supervision, Air Force staff functions, administration of personnel, and functions of the Air Comptroller. One hour a week of instruction and practical application in military leadership, drill, and exercise of command.

78. ADVANCED AIR FORCE ROTC. Administration and Logistics. Spring term. Credit three hours, Prerequisite, Advanced Air Force ROTC 77. Hours: first section, M W F 8 and M 2; second section, M W F 9 and T 2; third section, M W F 12 and F 2; and, in addition M T W Th F 3-4.

Four hours a week of instruction and practical application in career development, food service supervision, Air Force staff functions, administration of personnel, and functions of the Air Comptroller. One hour a week of instruction and practical application in military leadership, drill, and exercise of command.

85. ADVANCED AIR FORCE ROTC. Communications. Fall term. Credit three hours. Prerequisite, Basic Air Force ROTC 4. Hours: T Th S 9 and Th or F 2; T Th 12, S 10 and Th or F 2; and, in addition, M T W Th or F 3-4.

Four hours a week of instruction and practical application in logistics, air operations, and wire communications. One hour a week of instruction and practical application in leadership, drill, and exercise of command. Open to juniors who are pursuing an engineering curriculum.

86. ADVANCED AIR FORCE ROTC. Communications. Spring term. Credit three hours. Prerequisite, Advanced Air Force ROTC 85. Hours: T Th S 9 and Th or F 2; T Th 12, S 10, and Th or F 2; and, in addition, M T W Th or F 3-4.

Four hours a week of instruction and practical application in radar and radio communications. One hour a week of instruction and practical application in leadership, drill, and exercise of command.

87. ADVANCED AIR FORCE ROTC. Communications. Fall term. Credit three hours. Prerequisite, Advanced Air Force ROTC 86. Hours: M or T 2 and M W F 9 or 12; and, in addition, M T W Th or F 3-4.

Four hours a week of instruction and practical application in military teaching methods, military management, Air Force inspection systems, and military law and boards. One hour a week of instruction and practical application in military leadership, drill, and exercise of command.

88. ADVANCED AIR FORCE ROTC. Communications. Spring term. Credit three hours. Prerequisite, Advanced Air Force ROTC 87. Hours: M or T 2 and

MWF9 or 12 and, in addition, MTW Th or F3-4.

Four hours a week of instruction and practical application in career development, communications command and administration, inspections, training communications centers and message handling, functional communications systems, and communications organization. One hour a week of instruction and practical application in leadership, drill, and exercise of command.

95. ADVANCED AIR FORCE ROTC. Armament. Fall term. Credit three hours. Prerequisite, Basic Air Force ROTC 4. Hours: T Th S 9 and Th or F 2: T Th 12, S 10, and Th or F 2; and, in addition, M T W Th or F 3-4.

Four hours a week of instruction and practical application in logistics and air operations, 20 mm. automatic gun, aircraft machine guns, rocket launchers, and bombing accessories. One hour a week of instruction and practical application in leadership, drill, and exercise of command. Open to juniors who are pursuing an engineering curriculum or who are majoring in mathematics, physics, or an allied technical field.

96. ADVANCED AIR FORCE ROTC. Armament. Spring term. Credit three hours. Prerequisite, Advanced Air Force ROTC 95. Hours: T Th S 9 and Th or F 2; T Th 12, S 10, and Th or F 2; and, in addition, M T W Th or F 3-4.

Four hours a week of instruction and practical application in AC theory and electronics, fire control system, amplidyne, chemical warfare, atomic defense, guided missiles, and pilotless aircraft. One hour of instruction and practical application in leadership, drill, and exercise of command.

97. ADVANCED AIR FORCE ROTC. Armament. Fall term. Credit three hours. Prerequisite, Advanced Air Force ROTC 96. Hours: M W F 9 and M or T 2; M W F 12 and M or T 2; and, in addition, M T W Th or F 3-4.

Four hours a week of instruction and practical application in military teaching methods, military management, Air Force inspection systems, and military law and boards. One hour a week of instruction and practical application in military leadership, drill, and exercise of command.

98. ADVANCED AIR FORCE ROTC. Armament. Spring term. Credit three hours. Prerequisite, Advanced Air Force ROTC 97. Hours: M W F 9 and M or T 2; M W F 12 and M or T 2; and, in addition, M T W Th or F 3-4.

Four hours a week of instruction and practical application in the principles of radar, the B-36 Fire Control System (Thyratron), gyro principles, the theory of bombing, the A-1 series sight, harmonization, and radar bombing equipment. One hour a week of instruction and practical application in leadership, drill, and exercise of command.

105. ADVANCED AIR FORCE ROTC. Flight Operations. Fall term. Credit three hours. Prerequisite, Basic Air Force ROTC 4. Hours: T Th S 9 and Th or F 2; T Th 12, S 10, and Th or F 2 and, in addition, M T W Th or F 3-4.

Four hours a week of instruction in air operations, major air commands, principles of flight, and aircraft instruments. One hour a week of instruction in leadership, drill, and exercise of command.

106. ADVANCED AIR FORCE ROTC. Flight Operations. Spring term. Credit three hours. Prerequisite, Advanced Air Force ROTC 105. Hours: T Th S 9 and Th or F 2; or T Th 12, S 10, and Th or F 2; and in addition M T W Th or F 3-4.

Four hours a week of instruction in aircraft engineering, air navigation, and meteorology. One hour a week of instruction and practical application in leadership, drill, and exercise of command.

107. ADVANCED AIR FORCE ROTC. Flight Operations. Fall term. Credit three hours. Prerequisite, Advanced Air Force ROTC 106. Hours: M W F 9 and M or T 2; M W F 12 and M or T 2; and, in addition, M T W Th or F 3-4.

Four hours a week of instruction and practical application in military teaching methods, military management, Air Force inspection systems, and military law and boards. One hour a week of instruction in leadership, drill, and exercise of command.

108. ADVANCED AIR FORCE ROTC. Flight Operations. Spring term. Credit three hours. Prerequisite, Advanced Air Force 107. Hours: M W F 9 and M or T 2; M W F 12 and M or T 2; and, in addition, M T W Th or F 3-4.

Four hours a week of instruction in subjects to be announced. One hour a week of instruction in leadership, drill, and exercise of command.

## NAVAL SCIENCE

The mission of the Naval Reserve Officers Training Corps is to provide, by a permanent system of training and instruction in essential naval subjects at civil educational institutions, a source from which qualified officers may be obtained for the Navy and the Marine Corps, and the Naval Reserve and the Marine Corps Reserve. This mission is accomplished by:

(a) Qualification of students for appointment as Ensigns in the Regular Navy and the Naval Reserve, or Second Lieutenants in the Marine Corps and the Marine Corps Reserve, thus assisting in meeting the needs

for commissioned personnel.

(b) Increased dissemination of knowledge concerning the Navy and Marine Corps, their purpose, ideals, achievements, and handicaps, thereby gaining and holding increased public interest in the maintenance of

adequate naval preparedness.

The Department of Naval Science offers an integrated four-year course which normally requires three classroom hours a week plus certain laboratory periods. Since all men enrolled in the NROTC are officer candidates, the Department of the Navy also requires summer cruises or tours of duty at shore establishments for training purposes. The number and length of such assignments depends on whether the student is classified as Regular or Contract.

Entry as Regular NROTC students is attained through nationwide competitive examinations held each fall at a time announced by the Department of the Navy. Candidates who pass the examination with an acceptable score are given a physical examination. Those still eligible are interviewed by Naval officers and rated by state selection committees.

Successful candidates are assigned to NROTC units, if possible at the college or university of their first choice. Regular students matriculating in the College of Agriculture, the School of Hotel Administration, or the School of Industrial and Labor Relations should investigate the summer practice requirements for the particular school, with the object of acquiring some practice points prior to entry. Otherwise Navy summer cruise requirements may present difficulties.

For Regular students the government provides free tuition, fees, books, uniforms, and retainer pay at the rate of \$50 a month for four years. They are appointed Midshipmen U.S.N.R. and in addition to Naval Science courses are required to spend six to eight weeks each summer on cruises or aviation/amphibious training. On graduation, they are commissioned Ensigns in the Regular Navy or Second Lieutenants in the Marine Corps and are required to serve on active duty up to three years. They may apply for retention in the Regular Navy or Marine Corps, and, if selected, they will continue in the service as career officers. If they elect to terminate their Regular status, they will be placed on inactive duty in the Reserve Component until their commissioned service (Regular and Reserve) totals eight years.

The Department of the Navy assigns a quota of Contract students to each unit. Entry as a Contract student is attained by application to the Professor of Naval Science, who makes final selection to fill the quota. Selections are made at the beginning of the academic year. All application papers must be received, complete in every respect, not later than September 19, 1952, after which date no further applications will be considered.

Contract students pursue the same Naval Science courses as the Regular NROTC students but are required to participate in only one summer cruise not to exceed 6 weeks, normally between the junior and senior years. The government provides uniforms and naval science textbooks, and to third- and fourth-year Contract students the government pays the commuted value of one ration a day, currently 90 cents or approximately \$27 a month. Contract students agree to accept a commission in the Naval Reserve or in the Marine Corps Reserve and may be ordered to active duty for two years. If they are not assigned to active duty, they will be placed in an inactive status but are obligated to serve a total of eight years (active and inactive) as a commissioned officer.

A candidate for Regular or Contract status must be a male citizen of the United States and must have reached his seventeenth birthday and not have passed his twenty-first birthday, on July 1 of the entering year, except that a student matriculating in a five-year course shall not have passed his twentieth birthday on July 1. A candidate must be unmarried, must never have been married, and must agree to remain unmarried until commissioned.

The physical requirements for the NROTC are exactly the same as those required of candidates for entry into the U.S. Naval Academy. The general requirements are that the candidate be physically sound, well formed, and of robust constitution. Vision must be 20/20 uncorrected in each eye. Good color perception is required. Heart, lungs, and hearing must be normal. The candidate must have at least twenty vital, serviceable teeth with good occlusion and no cavities. Weight must be in proportion to height and general build. The limits of height are 66 to 74 inches for persons under 18 years of age and 66 to 76 for those over 18 years of age.

For further information write to the Professor of Naval Science, Naval ROTC Unit, Cornell University, Ithaca, New York.

101. NAVAL HISTORY AND ORIENTATION. Fall term. Credit three hours. Lecture/recitation M W F 9 10 or 11; T Th S 9 10 or 11; laboratory W or Th 2-4.

A study of American sea power as related to the growth of the United States from the Revolution through World War II; a study of the organization of the Department of Defense, the customs, and the traditions of the Navy, and naval leadership. Required of all first-term Naval ROTC students.

102. NAVAL HISTORY AND ORIENTATION. Spring term. Credit 3 hours. Lecture/recitation M W F 9 10 or 11; T Th S 9 10 or 11; laboratory W or Th 2-4.

A study of naval organization, seamanship, maritime rules of the nautical road, leadership, and communications. Required of all second-term Naval ROTC students.

201. NAVAL WEAPONS. Fall term. Credit 3 hours. Lecture/recitation M W F 9 10 or 11; T Th S 9 10 or 11; laboratory W or Th 2-4.

A study of naval weapons and explosives. Required of all third-term Naval ROTC students.

202. NAVAL WEAPONS. Spring term. Credit 3 hours. Lecture/recitation M W F 9 10 or 11; T Th S 9 10 or 11; laboratory W or Th 2-4.

A study of fire control systems, radar, sonar, and guided missiles. Required of all fourth-term Naval ROTC students.

301. NAVIGATION. Fall term. Credit 3 hours. Lecture/recitation M W F 9 10 or 11; T Th S 9 or 10; laboratory W or Th 2-4.

A study of the theory and technique of surface navigation. Covers dead reckoning, piloting, and maneuvering board. Required of all fifth-term Naval ROTC students except Marine Corps candidates.

301M. EVOLUTION OF THE ART OF WAR. Fall term. Credit 3 hours. Lecture/recitation 3 hours a week as arranged; laboratory W or Th 2-4.

This course is designed to survey the historical development of weapons, tactics, and material and to illustrate the classic principles of war by a study of selected battles and campaigns. Required of all fifth-term Naval ROTC students who are candidates for Marine Corps commissions.

302. NAVIGATION. Spring term. Credit 3 hours. Lecture/recitation M W F 9 10 or 11; T Th S 9 or 10; laboratory W or Th 2-4.

A continued study of the theory and technique of surface navigation to include meteorology and celestial navigation. Required of all sixth-term Naval ROTC students except Marine Corps candidates.

302M. BASIC STRATEGY AND TACTICS. Spring term. Credit 3 hours. Lectures/recitation 3 hours a week as arranged; laboratory W or Th 2-4.

This course is designed to survey modern strategical and tactical principles, using contemporary historical events as illustrative material. Required of all sixth-term Naval ROTC students who are candidates for Marine Corps commissions.

401. NAVAL MACHINERY. Fall term. Credit 3 hours. Lecture/recitation M W F 9 or 10; T Th S 10; laboratory W or Th 2-4.

A study of the different types of naval engineering propulsion plants. Required of all seventh-term Naval ROTC students except Marine Corps candidates.

401M. AMPHIBIOUS WARFARE, Part I. Fall term. Credit 3 hours. Lecture/

recitation 3 hours a week as arranged; laboratory W or Th 2-4.

A detailed study of the technique and history of amphibious warfare. Required of all seventh-term Naval ROTC students who are candidates for Marine Corps commissions.

402. SHIP STABILITY, NAVAL JUSTICE, AND LEADERSHIP. Spring term. Credit 3 hours. Lecture/recitation M W F 9 or 10; T Th S 9 or 10; laboratory W or Th 2-4.

A study of the principles of ship stability and buoyancy in the practices of damage control. A study of the procedures for and the responsibility of an officer in the administration of naval justice. A study to assist in the understanding of the psychology of leadership. Required of all eight-term Naval ROTC students except Marine Corps candidates.

402M. AMPHIBIOUS WARFARE, PART II; LEADERSHIP AND NAVAL JUSTICE. Spring term. Credit 3 hours. Lecture/recitation 3 hours a week as ar-

ranged; laboratory W or Th 2-4.

A continued study of the techniques of amphibious warfare. A study of the procedures for and the responsibility of an officer in the administration of naval justice. A study to assist in the understanding of the psychology of leadership. Required of all eighth-term Naval ROTC students who are candidates for Marine Corps commissions.

# PHYSICAL EDUCATION

#### COURSES FOR MEN

All entering students are given a physical classification test. As a result of this and the physical examination given by the Department of Clinical and Preventive Medicine each student is given one of the four classifications, A, B, C, or D. Assignment to courses is made on the basis of this classification.

The program for the first year includes physical conditioning and an emphasis upon introducing students to a broad field of activities, particularly carry-over sports. In the second year the student will have an opportunity to participate in an activity program selected from team sports, intramurals, or physical education classes.

1. INDIVIDUAL CORRECTIVES. Either term. Credit one hour. Open only to students assigned to Classification A by the Department of Clinical and Preventive Medicine. Three to five periods a week as assigned, M through F 2 to 5. OLD ARMORY.

Under the personal scrutiny of the Remedial Instructor, with weekly checks by the Department of Clinical and Preventive Medicine, each student here assigned receives individual attention according to his needs. Minor, as well as major, physical defects are treated. Marked development and improvement through this physical and recreational therapy enables students to transcend physical barriers.

2. GROUP CORRECTIVES. Either term. Credit one hour. Open only to students assigned to Classification B by the Department of Physical Education. Three periods a week as assigned, M through F, 9 to 1 and 2 to 5; S 9, 10, 11. OLD ARMORY.

Students are selected from departmental tests and include those who need special attention because of excessive obesity, hollow chests, poor arm and shoulder development, particular lack of coordination, and no previous physical skill ability. Since Classification B men differ so widely physically, individual routines are assigned, results are noted and carefully checked, and proper tests are given several times each term.

3. BASIC PROGRAM. Either term. Credit one hour. Open only to students assigned to Classification C by the Department of Physical Education. Three periods a week as assigned, M through F, 9 to 1 and 2 to 5; S 9, 10, 11. OLD ARMORY.

From classification tests given three times a year, this particular group forms itself. Students who fail to achieve high enough ratings to gain the choice play program are automatically assigned here. Effort, attitude, and individual capabilities are determining factors. This work is primarily a rigorous general conditioner. Special emphasis is placed on arm, shoulder, leg, and abdominal development supplemented with simple skills, mass calisthenics, and limited use of apparatus.

4. SPORTS PROGRAM. Either term. Credit one hour. Open only to students assigned to Classification D by the Department of Physical Education. Three periods a week as assigned, M through F, 9 to 1 and 2 to 5:30; S 9, 10, 11. BARTON HALL and ALUMNI FIELDS.

A choice of activity is afforded each student. Offerings according to seasonal activities are as follows: badminton, basketball, bowling, boxing, golf (indoor and outdoor), riding, soccer, tennis, volleyball, touch football, weight lifting, wrestling, advanced swimming. Varsity sports in season automatically excuse a student with a D classification from the required program. Attendance at all team practices is required in lieu of physical training. Varsity sports offerings are as follows: baseball, basketball, crew, cross country, fencing, football, golf, pistol, polo, rifle, skiing, soccer, swimming, tennis, track, wrestling. (The above may also include freshmen, 150-pound, and JV teams.)

5. SWIMMING PROGRAM. All entering students are required to take and pass the swimming test. It should be noted that successful completion of this test is a requirement of the Physical Education Department. Course offerings are as follows:

Corrective Swimming. Open only to students assigned by the Medical Department. M through F at 12.

Beginners' Swimming. Open only to nonswimmers. M through F. Hours to be assigned.

Advanced Swimming. Open only to students with Classification D. M through F. Hours to be assigned.

Open Swimming. Open to all University students subject to pool regulations. M through F. Hours to be assigned.

A.R.C. Life Saving and Water Safety Instructors' Course. Monday Evening, 7:30, throughout second term. Prerequisite, A.R.C. Senior Certificate. Registration limited.

A.R.C. Life Saving-Water Safety Senior Course. Daily Monday through Friday, 4:30. Begins the week following Spring Recess. Registration limited.

A.R.C. Instructors' Refresher Course. Dates to be announced. All tests and classes are given in the OLD ARMORY swimming pool.

#### COURSES FOR WOMEN

An orthopedic examination and motor ability tests are required of all freshmen and sophomore transfers during the first week of the fall term.

All students, with the exception of those classified under (a) or (b) below are required to take Physical Education 51 during the fall or spring term of the freshman year.

(a) Those whose physical, orthopedic, or motor ability examinations indicate a need for individual instruction or restricted activity are assigned to Physical Education 53 or to specially designated activities in Physical Education 54.

(b) Those who receive an exceptionally high rating in the orthopedic and motor ability examinations may exempt Physical Education 51 and register for Physical Education 52 the fall or spring term of the freshman

vear.

Physical Education 52 is required of all physically qualified students immediately following the completion of Physical Education 51. During the remainder of the two-year requirement any of the activities offered may be selected. Juniors and seniors may register without credit for activities of their choice.

At the end of the second term or any subsequent term students may be excused from the balance of the requirement by the Committee on Requirements for Graduation upon the recommendation of the Department of Physical Education.

51. FUNDAMENTALS. Either term. Credit one hour. Three periods a week as

arranged.

Nine weeks of indoor work and six weeks of an outdoor sport selected from Physical Education 54. The indoor work is devoted to exercises for improving body control and discussion of the role of exercise, correct use of the body, and health habits in maintaining physical fitness.

52. RHYTHMICS. Either term. Credit one hour. Prerequisite, Physical Edu-

cation 51. Three periods a week as arranged.

A study of a rhythmic basis for elementary movement with emphasis on body control. It is the aim to extend the student's natural movement facility and to stimulate a better understanding of dance as an art form through discussion, the presentation of dance in concert, lecture, and films.

53. INDIVIDUAL GYMNASTICS, (CORRECTIVES). Either term. Credit one hour. Open only to students recommended by the Medical or Physical Education staff. Three periods a week as arranged.

Nine weeks of indoor work consisting of prescribed exercises adapted to the in-

dividual student's needs and six weeks of an outdoor sport.

54. ACTIVITIES. Either term. Credit one hour. Three periods a week as arranged.

Nine weeks devoted to an indoor activity and six weeks to an outdoor activity.

Outdoor: Fall term-archery, golf, hockey, tennis

Spring term-archery, canoeing, golf, softball, tennis, Senior Life Sav-

Indoor: Fall term-badminton, basketball, bowling, golf, square and folk dancing

Spring term-badminton, bowling, golf, Instructors' Life Saving, square and folk dancing

Throughout the term (15 weeks): intermediate dance (prerequisite, Physical Education 52), riding

100. CAMP COUNSELOR TRAINING. Spring term. Credit two hours, Lectures and laboratory F 2-4:30. Miss STEWART.

A study of the aims and value of camping; types, organization, and administration of camps; qualifications and responsibilities of the counselors; laboratory instruction in camperaft.

THE DANCE. The following courses are designed to offer background in the history of the dance, experience in composition of dance forms and in technique of dance movement. In addition to the assigned meetings, there is a rehearsal schedule to meet production demands throughout the term.

200. PRECLASSIC DANCE FORMS. Either term. Credit three hours. Consent of the instructor. M 4:30, T 4:30, Th 7:30. Miss ATHERTON and Staff.

201. MODERN DANCE FORMS. Either term. Credit three hours. Prerequisite, Dance 200. M 4:30, T 4:30, Th 7:30. Miss ATHERTON and Staff.

202. CHOREOGRAPHY FOR SOLO AND GROUP. Either term. Credit three hours. Prerequisite Dance 201. M 4:30, T 4:30, Th 7:30. Miss ATHER-TON and Staff.

203-204. INFORMAL STUDY. Either term or throughout the year. Credit three hours. Open only to exceptionally qualified students. Prerequisite, Dance 202 and consent of the instructor. Hours to be arranged. Miss ATHERTON.

# CLINICAL AND PREVENTIVE MEDICINE

The Department of Clinical and Preventive Medicine, besides offering clinical services for students who are ill, contributes to their total educational experience by offering academic courses. These courses are designed to give instruction in matters of health. They range in scope from nutritional subjects to problems of mental health. Both the individual and public health aspects are considered.

376. PUBLIC HEALTH NUTRITION TECHNIQUES. Spring term. Credit one hour. Registration by consent of instructor. Th 9. SAVAGE HALL. Mrs. BER-RESFORD.

A discussion of the function of the public health nutritionist in official and voluntary agencies at the national, state, and local level and a study of various techniques employed in executing a nutrition program, such as low-cost budgeting, racial diet patterns, interviewing, evaluation and preparation of educational materials and visual aids, clinic procedures, consultation to institutions, and nutrition education in schools.

381-382. FIELD OBSERVATION AND EXPERIENCE IN COMMUNITY NUTRITION. Given throughout the year, either or both terms. Credit two hours per term. Prerequisite or parallel, C.P.M. 375 (or 376). Registration by consent of the instructor. For School of Nutrition and Graduate School students. Two half-days a week as arranged. Mrs. BERRESFORD.

Supervised observation and experience in the community nutrition program of

a county health unit. Supervision is provided by a qualified nutritionist.

392. CLINICAL AND PUBLIC HEALTH NUTRITION. Spring term. Credit two hours. Prerequisites, a course in nutrition, in physiology, and in biochemistry. Registration by permission of instructor. For School of Nutrition and Graduate School students. T Th 12. Savage Hall 145. Miss YOUNG and members of the medical staff.

This course is designed to familiarize the student with some of the applications of nutrition to clinical and public health problems.

# Faculty

Deane W. Malott, A.B., M.B.A., LL.D., President of the University. William Hursh Farnham, J.S.D., Dean of the Faculty and Chairman of the Committee on Requirements for Graduation.

### DIVISION OF EXTRAMURAL COURSES

William Arthur Smith, Ph.D., Director of the Division.

## DIVISION OF UNCLASSIFIED STUDENTS

Blanchard Livingstone Rideout, Ph.D., Director of the Division.

#### ADMINISTRATIVE COMMITTEE

Thomas W. Mackesey, B.Arch., M.C.P., Dean of the College of Architecture and Professor of Regional Planning. Term expires June 30, 1955. Chandler Morse, M.A., Associate Professor of Economics. Term expires

June 30, 1955.

Howard Merrill Gifft, B.S., M.S., C.E., Professor of Sanitary Engineering. Term expires June 30, 1954.

LeRoy Lesher Barnes, Ph.D., *Professor of Biophysics*. Term expires June 30, 1954.

Cedric Hay Guise, M.F., Professor of Forestry. Term expires June 30, 1953.

#### DEPARTMENT OF MILITARY SCIENCE AND TACTICS

Col. George S. Smith, Artillery, U.S. Army, Co-ordinator of the Military Departments, Professor of Military Science and Tactics, and Commanding Officer of the Army ROTC.

#### ASSISTANT PROFESSORS

Lt. Col. Alexander T. McElroy, Artillery, U.S. Army.

Lt. Col. Kermit W. Campbell, Quartermaster Corps, U.S. Army.

Major Edwin J. Sunderville, Veterinary Corps, U.S. Army.

Major George G. Holochwost, Artillery, U.S. Army. Major Walter B. McCord, Artillery, U.S. Army

Major Daniel T. Delaney, Quartermaster Corps, U.S. Army.

Major Charles E. Woodard, Quartermaster Corps, U.S. Army.

Major Frank A. Dwyer, Quartermaster Corps, U.S. Army. Major Myron H. Dakin, Signal Corps, U.S. Army.

Major George Sargis, Artillery, U.S. Army.

Captain Bruce E. Dahrling, Ordnance Corps, U.S. Army.

Captain Hugh M. Garner, Signal Corps, U.S. Army.

Captain Henry O. Sitler, Quartermaster Corps, U.S. Army.

Captain Edward R. Hutchins, Artillery, U.S. Army.

Captain Burton F. Parker, Ordnance Corps, U.S. Army.

Captain Charles D. O'Connor, Artillery, U.S. Army.

Captain Charles F. Frock, Ordnance Corps, U.S. Army.

#### INSTRUCTORS

First Lieut. James W. Johnson, Quartermaster Corps, U.S. Army. First Lieut. Robert M. Griswold, Artillery, U.S. Army.

#### DEPARTMENT OF AIR SCIENCE AND TACTICS

Col. George T. Crowell, U.S. Air Force, Professor of Air Science and Tactics and Commanding Officer of the Air Force ROTC.

#### ASSISTANT PROFESSORS

Major Harry R. Burkhart, U.S. Air Force.

Major Phil M. DiPiero, U.S. Air Force.

Major Belvie R. Lowrance, U.S. Air Force.

Major James H. Searle, U.S. Air Force.

Major George C. Snyder, U.S. Air Force.

Major Nathan Weiner, U.S. Air Force.

Capt. Millard G. DuBois, U.S. Air Force.

Capt. James T. Farr, U.S. Air Force.

Capt. Alvin Israel, U.S. Air Force.

Capt. Howard G. Roberts, U.S. Air Force.

#### INSTRUCTOR

First Lieut. Wilbur H. Biedenkapp

#### DEPARTMENT OF NAVAL SCIENCE

Captain Frederic S. Habecker, U.S. Navy, Professor of Naval Science and Commanding Officer of the Naval ROTC.

#### ASSISTANT PROFESSORS

Lt. Col. R. T. Knox, U.S. Marine Corps.

Lt. Comdr. R. G. Redmond, U.S. Navy.

Lieutenant James F. Roohan, Jr., U.S. Navy.

Lieutenant S. W. Gipson, U.S.N.R.

Lieutenant William W. Morton, U.S. Navy.

Lieutenant Richard S. Baird, U.S. Navy.

Lieutenant Ernest Natke, U.S. Navy.

### DEPARTMENT OF PHYSICAL EDUCATION AND ATHLETICS

Robert J. Kane, B.S., Director of Athletics.

Ross H. Smith, M.Ed., Director of Physical Education for Men.

Miss Dorothy H. Bateman, Director of Physical Education for Women.

C. V. P. Young, A.B., Professor of Physical Education, Emeritus.

#### INSTRUCTORS FOR MEN

L. J. Adesso

W. G. Bruska, B.S.

Georges L. Cointe, A.B.

R. L. Cullen, B.S.

J. DeLibero

P. J. Filley, B.S.

J. A. Freeman, M.S.

Thomas Granowitz, B.S.

R. C. Greene, B.S.

G. L. Hall

F. J. Kavanagh

C. B. Lent, M.S.

Richard Lewis, A.B.

G. S. Little

T. J. McGory, Jr.

E. J. Miller, Jr., B.S.

L. C. Montgomery, B.P.E.

R. H. Sanford, A.B.

L. W. Schoel, M.Ed.

Hanley Staley, M.S. (on military

leave)

D. B. Williams, M.Ed.

#### INSTRUCTORS FOR WOMEN

Miss May Atherton

Mrs. Kerstin Baird, M.A.

Miss Iris Carnell, M.S.

Miss Mary Stewart, M.S.

Mr. Joseph Zeilic

### DEPARTMENT OF CLINICAL AND PREVENTIVE MEDICINE

Norman S. Moore, M.D., Head of A. H. Leighton, M.D. Department of Clinical and Pre-

ventive Medicine

Ralph Alexander, M.D.

Kathleen Berresford, M.S.

Temple Burling, M.D. C. Douglas Darling, M.D.

Paul Darsie, M.D.

Helen Elston, M.D., Research Associate

Jennette Evans, M.D.

Grace Fiala, A.B., Research Associate

J. W. Hirshfeld, M.D., Research Associate

Ethel E. Little, M.D.

Frances McCormick, A.B., BN.

Helen Pilcher, M.N.S.

Alexius Rachun, M.D.

Edward C. Showacre, M.D.

John Summerskill, Ph.D.

Henry B. Wightman, M.D.

Harold H. Williams, Ph.D., Research Associate

Jocelyn Woodman, M.D.,

Research Associate Charlotte Young, Ph.D.

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Correspondence regarding these publications should be addressed to

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