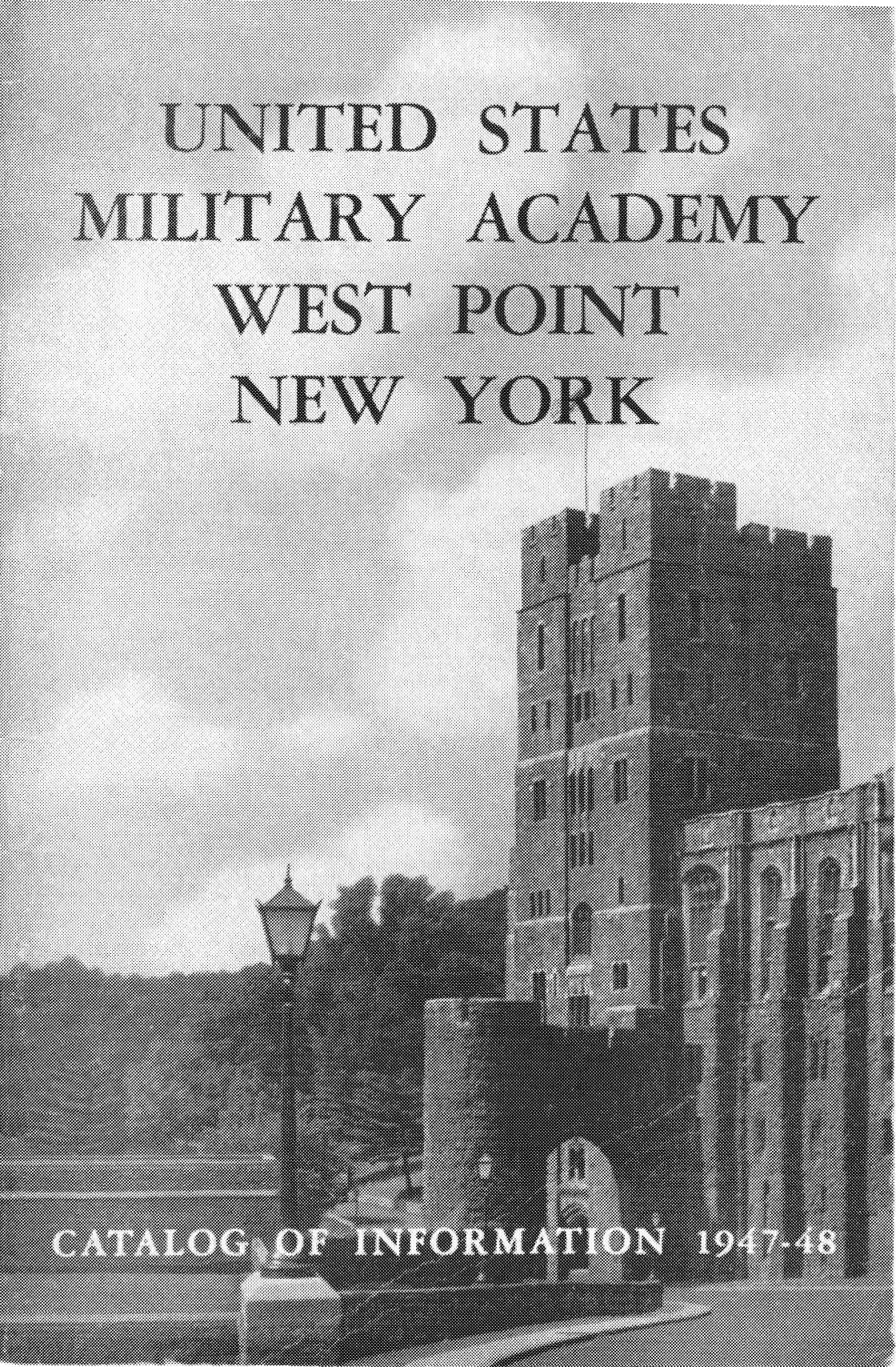


UNITED STATES  
MILITARY ACADEMY  
WEST POINT  
NEW YORK



CATALOG OF INFORMATION 1947-48



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1947-48

(Communications relating to matters connected with the Military Academy should be addressed to The Adjutant General, Washington 25, D. C.)

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BY ORDER OF THE SECRETARY OF THE ARMY:

OFFICIAL:

EDWARD F. WITSELL  
*Major General*  
*The Adjutant General*

DWIGHT D. EISENHOWER  
*Chief of Staff, United States Army*

## CONTENTS

### SECTION I—THE MILITARY ACADEMY:

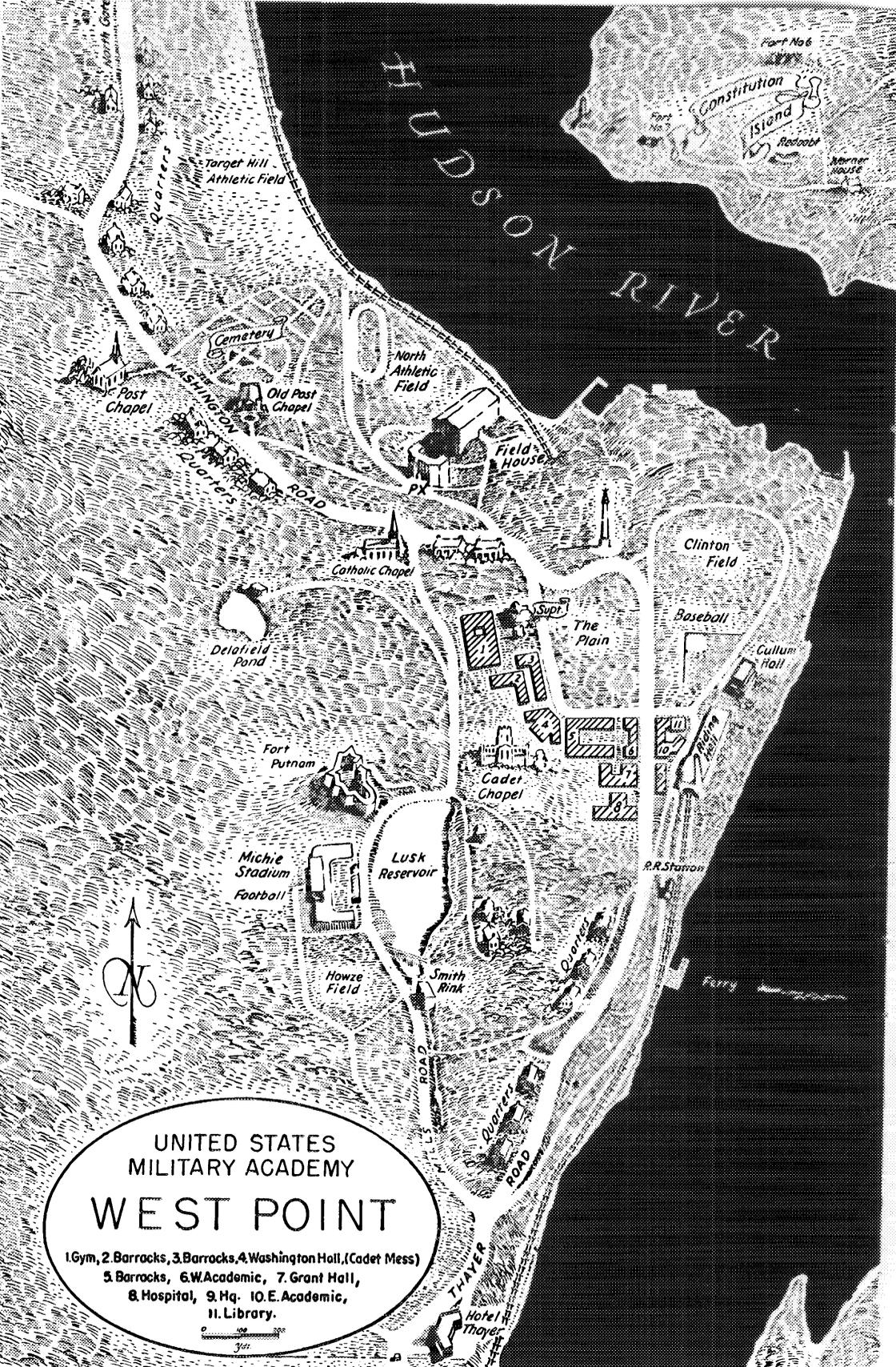
	Page
1. Historical Sketch.....	1
2. Mission.....	6
3. Calendar 1947-48.....	6

### SECTION II—ADMISSION TO THE MILITARY ACADEMY:

1. General Requirements (age, citizenship, etc.).....	9
2. Appointments.....	10
3. Sources of Admission.....	10
a. States at large, Congressional districts, territories, District of Columbia, and Puerto Rico.....	11
b. Panama Canal Zone.....	11
c. Vice presidential.....	11
d. Honor military schools.....	11
e. Sons of deceased veterans of World Wars I and II.....	13
f. Presidential.....	13
g. Regular Army and National Guard.....	14
h. Sons of Congressional Medal of Honor winners.....	15
i. Qualified alternates and qualified candidates.....	16
4. Educational Qualifications.....	16
5. Entrance Examinations.....	17
a. Time.....	17
b. Place.....	18
c. Examination schedule.....	18
6. Admission by Regular Mental Examination.....	18
7. Admission by Certificate and Validating Examinations.....	19
8. Admission by Certificate.....	20
9. Subjects and Credits.....	21
10. Definitions and Detailed Requirements.....	22
a. The unit.....	22
b. Mathematics, A, algebra, two units.....	22
c. Mathematics, B, advanced algebra, one-half unit.....	24
d. Mathematics, C, plane geometry, one unit.....	24
e. Mathematics, D, solid geometry, one-half unit.....	24
f. Mathematics, E, trigonometry, one-half unit.....	24
g. English, A, grammar and composition, one and one-half units.....	24
h. English, B, literature, one and one-half units.....	24
i. History, A, ancient, one unit.....	25
j. History, B, European, one unit.....	25
k. History, C, English, one unit.....	25
l. History, D, American, with or without civil government, one unit.....	25
m. History, world, one unit.....	25

	Page
11. General Information as to Certificates.....	25
12. Physical (Medical) Examination.....	26
<i>a.</i> Preliminary.....	26
<i>b.</i> Regular.....	27
<i>c.</i> Physical requirements.....	27
<i>d.</i> Physical proportions for height, weight, and chest measurements.....	29
<i>e.</i> Minimum standards for Filipino applicants.....	29
13. Physical Aptitude Examination.....	32
14. Physical Conditioning.....	33
15. Deposit Upon Entrance.....	34
 SECTION III—ORGANIZATION AND ADMINISTRATION:	
1. Direction and Supervision.....	36
2. Board of Visitors.....	36
3. Officers, Headquarters and Staff.....	37
4. Officers, Departments of Instruction.....	38
5. Composition of the Corps of Cadets.....	39
<i>a.</i> United States and territories.....	39
<i>b.</i> Filipino cadets.....	39
<i>c.</i> Foreign cadets.....	40
 SECTION IV—PROGRAM OF INSTRUCTION AND COURSE OF STUDIES:	
1. <i>General</i> .....	42
<i>a.</i> Courses of instruction.....	42
<i>b.</i> Academic terms.....	42
<i>c.</i> Term examinations.....	42
<i>d.</i> Disposition of cadets found deficient in academic work or conduct.....	42
<i>e.</i> Summer period.....	43
2. Program of Instruction.....	43
3. Schedule of Instruction.....	44
4. Departments of Instruction.....	50
<i>a.</i> Mathematics.....	50
<i>b.</i> Modern languages.....	50
<i>c.</i> English.....	50
<i>d.</i> Military topography and graphics.....	50
<i>e.</i> Physics and chemistry.....	50
<i>f.</i> Mechanics.....	51
<i>g.</i> Electricity.....	51
<i>h.</i> Military hygiene.....	51
<i>i.</i> Law.....	51
<i>j.</i> Social sciences.....	51
<i>k.</i> Ordnance.....	51
<i>l.</i> Military art and engineering.....	52
<i>m.</i> Tactics.....	52
5. Periodic Physical Examination.....	54
6. Degree.....	54
7. Academic Prizes and Special Awards for Military Proficiency.....	56
8. Special Athletic Awards.....	57
9. Annual Report of Distinguished Cadets.....	57
10. Promotion After Graduation.....	57
11. Furloughs, Leaves of Absence, Suspension of Academic and Military Duties.....	58
12. The Library.....	58
13. The Museum.....	59

SECTION V—GENERAL AND MISCELLANEOUS:	Page
1. Pay and Allowances of Cadets.....	61
2. Uniforms and Supplies.....	61
3. Extracurricular Activities.....	61
<i>a.</i> Social.....	61
<i>b.</i> Cultural activities and entertainment.....	62
4. Intercollegiate Athletics.....	62
5. Authorized Religious Activities.....	63
6. USMA Association of Graduates.....	63
SECTION VI—DESCRIPTION OF ENTRANCE EXAMINATIONS:	
1. Mathematics.....	65
2. English.....	66
3. United States History.....	68
4. West Point Aptitude Test.....	69
5. Sample Answer Sheet and Key.....	71
6. Additional Causes for Physical Disqualification.....	73
7. Training Hints for Candidates.....	81
Map of United States Military Academy Reservation.....	85



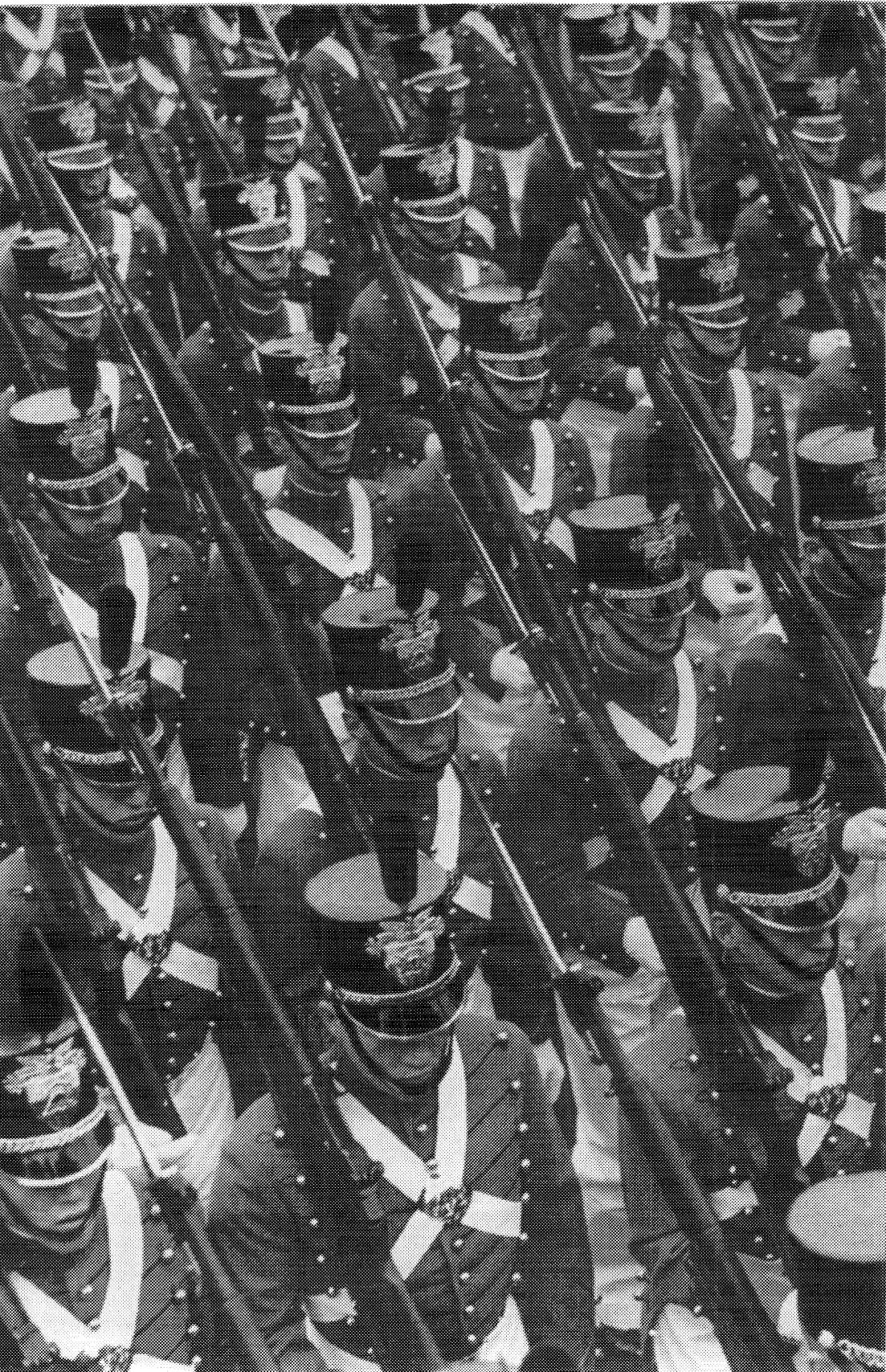
UNITED STATES  
MILITARY ACADEMY  
**WEST POINT**

1.Gym, 2.Barracks, 3.Barracks, 4.Washington Hall, (Cadet Mess)  
5.Barracks, 6.W.Academic, 7. Grant Hall,  
8.Hospital, 9.Hq. 10.E. Academic,  
11.Library.



## SECTION I—THE MILITARY ACADEMY

	Page
1. Historical Sketch.....	1
2. Mission.....	6
3. Calendar 1947-48.....	6



# THE MILITARY ACADEMY

## 1. Historical Sketch

West Point was first occupied by troops during the Revolutionary War, on 20 January 1778. It is therefore the oldest of the United States military posts now in use. Because of its strategic importance in the defense of the Hudson River Valley and of the communications between the New England and Middle Atlantic States, it was heavily fortified. The story of Benedict Arnold's attempt to betray it is familiar to every American.

The proposal to found a military academy was first made by Brig. Gen. Henry Knox in 1776 and was seconded by Col. Alexander Hamilton and Gen. George Washington. The latter selected West Point as a suitable site and repeatedly urged upon Congress the necessity for establishing the Academy. Although several attempts to found a military school at West Point were made at various times from 1781 to 1794, they were unsuccessful because of inadequate provision of funds and facilities. Washington's last official letter, written only 2 days before his death, was a strong recommendation that a military academy be founded in order that the Nation might have a cadre of trained officers, the lack of which had been a serious handicap to him in the War of Independence.

The present Military Academy dates from the act of 16 March 1802 when Congress, yielding to President Jefferson's advice and considering the threat of war with France, authorized a Corps of Engineers, to consist of 5 officers and 10 cadets, and provided that it should be stationed at West Point, in the State of New York, and should constitute a Military Academy. The post then consisted of 1,795 acres which had been purchased from Stephen Moore in 1790, although it had been occupied by the Army ever since the Revolution. The barracks and other buildings on the site, while inadequate, were available for the new institution. Col. Jonathan Williams, grandnephew of Benjamin Franklin, was therefore able to open the Academy formally on 4 July 1802, with 10 cadets present for instruction.

Congress, having founded the Military Academy, took little interest in it for several years thereafter. Lacking funds, professors, and facilities, the Academy struggled on until the War of 1812. The declaration of war found it empty of both faculty and cadets, who had been dispersed to various assignments, while some hundreds of new appointments over a period of years were left invalidated by the Office of the Secretary of War. Nevertheless, the record of the war showed that the graduates, although too young to hold high command, performed creditably and

rendered important services as engineers. A quarter of the more than a hundred West Pointers engaged were killed or wounded. Not one of the fortifications constructed by them fell to the enemy; and their works were a decisive factor in winning the ultimate victory.

Spurred by the war crisis, Congress provided for the reorganization of the Military Academy by its act of 29 April 1812. A more adequate corps of professors was authorized, a maximum strength of 250 cadets was fixed, and age and mental requirements for admission were prescribed.

The Academy, however, did not flourish. In 1815 Congress failed to appropriate funds for its support; and its second superintendent, Maj. Joseph G. Swift, met the crisis by borrowing \$65,000 from private sources on his own credit. Both administration and instruction suffered from the neglect occasioned by Swift's dual responsibility for the Academy and for the construction of harbor defenses elsewhere. Although the act of 1812 had provided a more adequate legal basis for the institution, Congress had failed to follow through with legislation to establish improved operating procedures.

The United States Military Academy, as it now exists, is largely the creation of Maj. (later Colonel) Sylvanus Thayer, who was appointed to the superintendency by President James Monroe. He assumed command on 28 July 1817, and immediately proceeded to inaugurate those features which have ever since characterized the West Point system. His achievements rightly earned for him the title of "Father of the Military Academy."

In general outline, Colonel Thayer's system was founded, first of all, on character. He insisted upon absolute honesty and complete integrity. Secondly, he established a curriculum as broad as was consistent with the primary demands of professional training. Lastly, he made it necessary for every cadet to exercise his own faculties to the utmost, to the end that his mind and character might attain their maximum development.

For many years West Point, aside from its military functions, was the only engineering school in the country; and until after the Civil War it was the only one to produce any considerable number of engineers. For this reason all of the main and transcontinental railroad lines were the work of West Pointers. The latter mapped the coasts, charted the harbors, built the lighthouses and coastal fortifications, surveyed frontiers, and constructed most of the important public improvements of that day.

Although there were no graduates among the general officers at the outbreak of the Mexican War, the services of West Pointers were so brilliant that Maj. Gen. Winfield Scott, the Commander-in-Chief, paid them a glowing tribute in which he assigned them the major share of credit for the victory. Robert E. Lee, Sherman, Sumner, Hooker,

McClellan, Grant, and "Stonewall" Jackson were among those who distinguished themselves.

In the Civil War, West Pointers again started in subordinate capacities in the Union Army, chiefly because of the Government's propensity for appointing "political generals" from civil life. Thanks to their training and ability, however, the graduates rose rapidly as the war progressed, until by January 1865, all of the general officers of the line were West Pointers. The Confederacy, on the other hand, was quick to take advantage of the services of graduates who adhered to its cause.

At the end of the Civil War, West Pointers were at the heads of the opposing armies. They had commanded the forces on at least one side, and usually on both sides, in every major engagement. Men like Lee, Grant, Sherman, and "Stonewall" Jackson had added new luster to the Academy's reputation.

In 1866, the diminishing national role of the Academy in engineering education and its broadening military responsibilities were recognized to the extent that line officers, as well as members of the Corps of Engineers, were made eligible for the superintendency. The transition was reflected in progressive changes in the curriculum which have continued to the present.

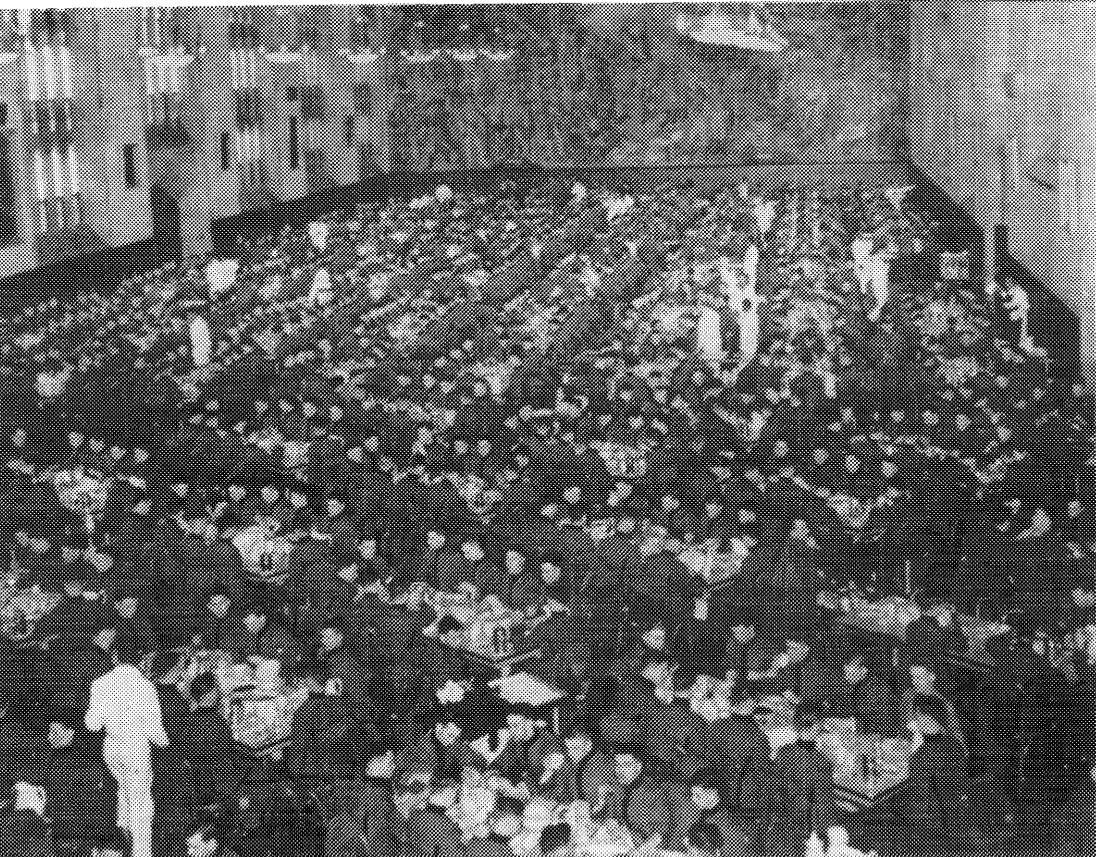
Graduates served on the frontiers, protecting settlers and controlling the Indians, until the Spanish-American War. In that conflict they again served with credit, and performed a highly constructive task in governing Cuba and the Philippines for some years afterward.

The First World War once more put West Point to the test. Gen. Peyton C. March, the Chief of Staff, and Gen. John J. Pershing, the commander in France, were both graduates, as were Generals Liggett, Bullard, and Dickman, who commanded the field armies. Of the 38 corps and division commanders who commanded in France at the end of the war, 34 were West Pointers.

Early graduations during the war caused confusion and disruption of the Academy's curriculum. Only by 1921 was a return to the regular 4-year course possible.

The new curriculum was adopted after careful study of postwar conditions and consultation with civilian educators. New courses in economics and government were added, the time devoted to English was increased, and all courses were greatly improved. Military training was brought up-to-date, and a program of prescribed intramural athletics (the first in the country) was instituted.

On 22 June 1926, a separate Department of Economics, Government, and History was created in recognition of the increased importance of those subjects. Again, in 1931, a new Department of Physics was set up to take care of basic instruction in the natural sciences and to enable the other scientific departments to concentrate on more advanced work. The Department was permanently established by law on 26 May 1934.



Another extensive revision of the curriculum took place in 1933. Other developments followed: Closer contacts with civilian institutions, the granting of the degree of Bachelor of Science to graduates, more extensive employment of university training to prepare instructors for their duties, frequent invitations to outside lecturers, and an enlarged program of extra-curricular activities. The entrance requirements were revised so as to reduce the number of failures after admission. And, finally, the authorized strength of the Corps of Cadets was raised to 1960 by the act of 7 June 1935.

Along with successive increases in the number of cadets since 1900, there have been corresponding building programs and expansions of the Academy's domain. Most of the Gothic buildings which give West Point its special architectural effect are the result of this development. Land purchases have increased the size of the reservation to 15,085 acres at West Point and 1,674 at nearby Stewart Field, where aviation training is given. Three additional areas in the general vicinity of Stewart Field were leased and developed for use as emergency landing fields.

During World War II, the confusion and the lowering of standards that had occurred at West Point during the First World War were avoided

by foresight and planning. The increased demand for West Point-trained officers was met by raising the authorized strength of the Corps of Cadets to 2,496 (act of 3 June 1942); by graduating the class of 1943 on 19 January of that year, and the class of 1944 on the first of the following June; and by reducing the length of the course to 3 years. A transition program was put into effect on 16 September 1942, which worked very smoothly.

Pursuant to the request of the Army Air Forces, West Point accelerated its development of Stewart Field and undertook to graduate Air Cadets fully trained as pilots. Hitherto, only observation flights and general instruction in the employment of air forces had been given. On 31 May 1943, Gen. H. H. Arnold awarded wings to the first class ever to graduate from West Point as full-fledged pilots. Of the 2,624 officers graduated by the Military Academy during the war, 825 were commissioned in the Army Air Forces.

An equally modern and intensive program of training for Ground Cadets was introduced, embodying the latest lessons learned from the battlefields. Camp Buckner in the newly acquired area was developed as a base for the summer training program. Maneuvers and observation tours at Pine Camp, Fort Benning, and other training centers rounded out the basic instruction given at Camp Buckner.

Approximately 8,800 graduates of West Point saw active service during the war. Although they constituted less than 2 percent of all officers in the Army of the United States, they furnished 83 percent of the generals, 65 percent of the lieutenant generals and 55 percent of the major generals (exclusive of medical officers). The commanders of the Ground, Air, and Service Forces were graduates, as were the two Supreme Commanders of the Allied Forces, General of the Army Dwight D. Eisenhower in Europe and General of the Army Douglas MacArthur in the Pacific.

In September 1945 the Academy announced its return to the 4-year course. A new curriculum and plans for putting it into effect were approved. The third class was divided in half; one-half to graduate in June 1947, and the other half in June 1948. A board of consultants, with members representing the Army and civilian educational institutions, was convened to pass upon the proposed curriculum and make general recommendations as to the conduct of the Academy.

Under the new plan, pilot training was dropped; but all cadets are to be given aviation training sufficient to provide them with a grasp of air operations. This change was necessary in order to allow time for military and academic subjects of more general importance to Army officers. Amphibious training with the Midshipmen of the Naval Academy was also planned, and an exchange of instructors between the two service academies was inaugurated.

The proven methods of the past were adhered to, but modifications and additions in keeping with experience in the war were adopted. A Dean

of the Academic Board with rank of Brigadier General has been appointed, and Congress has authorized nine new permanent professors. The basic sciences, chemistry and physics, were grouped under the Department of Physics; and additional time was allotted for the study of nuclear physics. The course in the Department of Electricity was extended to include electronics and communications. The course in Economics, Government, and History was expanded to include geography and military government, and a more thorough study of international relations and the economics of war. A course in Psychology of Military Leadership is now included under the Department of Tactics. The list of languages taught by the Department of Modern Languages was increased to five by the inclusion of Russian.

The total number of graduates, including foreigners receiving instruction under acts of Congress, from 1802 to 1946, inclusive, is 16,161.

## 2. Mission

The mission of the Military Academy is to instruct and train the Corps of Cadets to the end that each graduate shall have the qualities and attributes essential to his progressive and continued development throughout a lifetime career as an officer of the Regular Army. W. D. Circular No. 109, dated 3 October 1940 (changes in AR 350-5).

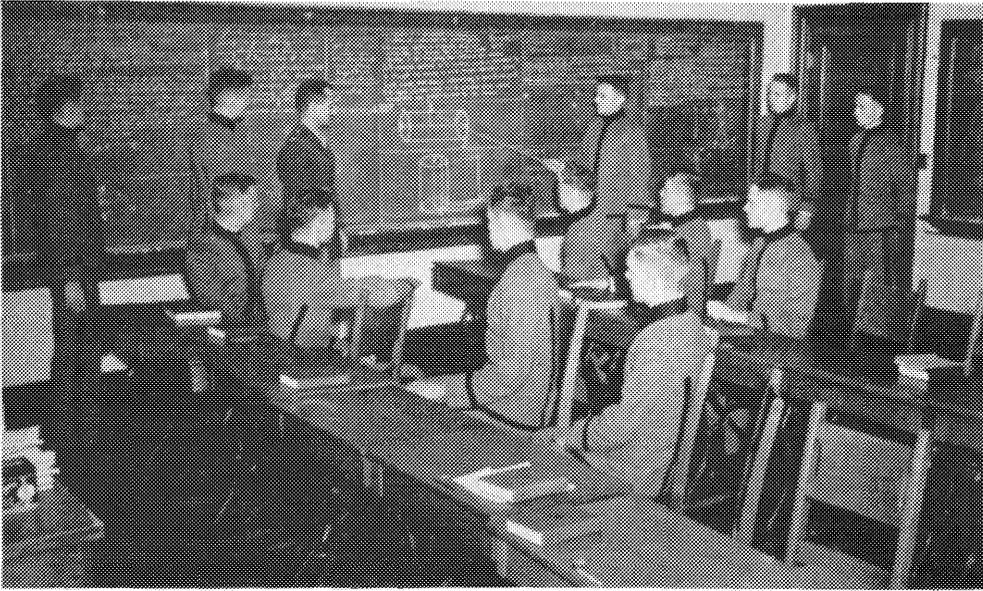
## 3. Calendar 1947-48

1947:

4 June-30 August .....	Practical Military Instruction.
1 July .....	New Fourth Class enters.
2 September .....	First term begins.
20 December .....	First term ends.
22-27 December .....	Term examinations.
20 December-1 January 1948 ..	Christmas leave for upper classes.

1948:

2 January .....	Second term begins.
3 June .....	Second term ends.
4-7 June .....	Term examinations.
4-8 June .....	June Week.
8 June .....	Graduation.



## SECTION II—ADMISSION TO THE MILITARY ACADEMY

	Page
1. General Requirements (age, citizenship, etc.).....	9
2. Appointments.....	10
3. Sources of admission.....	10
<i>a.</i> States at large, Congressional districts, territories, District of Columbia, and Puerto Rico.....	11
<i>b.</i> Panama Canal Zone.....	11
<i>c.</i> Vice presidential.....	11
<i>d.</i> Honor military schools.....	11
<i>e.</i> Sons of deceased veterans of World Wars I and II.....	13
<i>f.</i> Presidential.....	13
<i>g.</i> Regular Army and National Guard.....	14
<i>h.</i> Sons of Congressional Medal of Honor winners.....	15
<i>i.</i> Qualified alternates and qualified candidates.....	16
4. Educational Qualifications.....	16
5. Entrance Examinations.....	17
<i>a.</i> Time.....	17
<i>b.</i> Place.....	18
<i>c.</i> Examination schedule.....	18
6. Admission by Regular Mental Examination.....	18
7. Admission by Certificate and Validating Examinations.....	19
8. Admission by Certificate.....	20
9. Subjects and Credits.....	21

	Page
10. Definitions and Detailed Requirements .....	22
<i>a.</i> The Unit .....	22
<i>b.</i> Mathematics, A, algebra, two units .....	22
<i>c.</i> Mathematics, B, advanced algebra, one-half unit .....	24
<i>d.</i> Mathematics, C, plane geometry, one unit .....	24
<i>e.</i> Mathematics, D, solid geometry, one-half unit .....	24
<i>f.</i> Mathematics, E, trigonometry, one-half unit .....	24
<i>g.</i> English, A, grammar and composition, one and one-half units .....	24
<i>h.</i> English, B, literature, one and one-half units .....	24
<i>i.</i> History, A, ancient, one unit .....	25
<i>j.</i> History, B, European, one unit .....	25
<i>k.</i> History, C, English, one unit .....	25
<i>l.</i> History, D, American, with or without civil government, one unit .....	25
<i>m.</i> History, world, one unit .....	25
11. General Information as to Certificates .....	25
12. Physical (Medical) Examination .....	26
<i>a.</i> Preliminary .....	26
<i>b.</i> Regular .....	27
<i>c.</i> Physical requirements .....	27
<i>d.</i> Physical proportions for height, weight, and chest measurements for all candidates except Filipinos .....	29
<i>e.</i> Minimum standards for Filipino applicants .....	29
13. Physical Aptitude Examination .....	32
14. Physical Conditioning .....	33
15. Deposit Upon Entrance .....	34

# ADMISSION TO THE MILITARY ACADEMY

## 1. General Requirements (age, citizenship, etc.)

Candidates are eligible for admission from the day they are 17 (or 19 if appointed from the National Guard or Regular Army, see paragraph 3g, section II) until the day they become 22<sup>1</sup> years of age, on which latter day they are not eligible. The age requirements for all candidates are statutory and cannot be waived.

At the time of proposed admission the candidate's age must be within the prescribed age limits, and he must be a citizen of the United States.<sup>2</sup>

He must be of good moral character.

He must never have been married. Proof of prior marriage will be considered the equivalent of resignation from the Academy.

No candidate shall be admitted who is less than 5 feet 6 inches in height, or who is deformed or afflicted with any disease or infirmity which would render him unfit for the military service, or who has, at the time of presenting himself, any communicable disease.

Each candidate must, on reporting at West Point, present a certificate showing successful vaccination within 1 year; or a certificate of two vaccinations, made at least a month apart, within 3 months.

If accepted, the candidate reports at the Military Academy before 10:30 a. m. on the first weekday in July. New cadets are received at and after 8 a. m. Facilities for the housing and feeding of new cadets are not available prior to 8 a. m. It is advantageous, however, to report as early as possible.

Warrants of appointment are furnished cadets as soon as practicable after their admission.

At the time of admission and before receiving their warrants of appointment candidates are required to take the oath of allegiance (*a* below) and to sign in the presence of an officer deputized by the superintendent an engagement to serve (*b* below).

### *a. Oath of allegiance.*

I, \_\_\_\_\_, do solemnly swear that I will support the Constitution of the United States and bear true allegiance to the National Government; that I will maintain and defend the sovereignty of the United States paramount to any and all allegiance, sovereignty, or fealty I may owe to any State, county, or country whatsoever; and that I will at all times obey the legal orders of my superior officers and the rules and articles governing the Armies of the United States (R. S. 1320).

Sworn to and subscribed at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, nineteen hundred and \_\_\_\_\_, before me.

<sup>1</sup> Public Law 255, approved 11 December 1945, provides " \* \* \* Any appointee who has served honorably not less than 1 year in the armed forces of the United States during any of the present wars, and who possesses the other qualifications required by law, may be admitted between the ages of 17 and 24 years: *Provided*, That whenever any member of the graduating class shall fail to complete the course with his class by reason of sickness or deficiency in his studies, or other cause, such failure shall not operate to delay the admission of his successor."

<sup>2</sup> Noncitizens may be permitted to attend the United States Military Academy under special laws enacted from time to time (see par. 5c, sec. III). Further information may be obtained upon request to The Adjutant General, Washington 25, D. C.

*b. Engagement to serve.*

I, \_\_\_\_\_, of the State (or Territory) of \_\_\_\_\_, aged \_\_\_\_\_ years, \_\_\_\_\_ months, do hereby engage (with consent of my parent or guardian) that from the date of my admission as a cadet of the United States Military Academy I will serve in the Army of the United States for 8 years unless sooner discharged by competent authority.

In the presence of \_\_\_\_\_

**2. Appointments**

The figures given in paragraph 5, section III, indicate the maximum limits of representation at the Military Academy at any one time from the respective sources; consequently, no appointment can be made from any source except to fill a vacancy therefrom. All appointments are made by the President upon the designation of the authorized nominating authorities as outlined in detail in paragraph 3 below. The age requirements are explained in paragraph 1, section II, to which particular attention is invited. The law governing the appointment and admission of cadets to the Military Academy prescribes that they shall be appointed only within the year preceding the date of their admission. Accordingly, the appointments may be made after the first day of July with a view to admission on the next regular date of entrance, the first weekday of the following July. Candidates whose nominations are received in the Department of the Army on or before 15 February, are appointed to undergo the annual entrance examination which is held at various military installations (see par. 5a and b, sec. III) on the first Tuesday in March. Vacancies that occur subsequent to the March examination may be filled by the nomination of candidates to undergo the special examination held at West Point, N. Y., the third Tuesday in June (see par. 5a, sec. III). Only those candidates who are found to be fully qualified at the March or June examinations may be nominated for appointment after the June examination has been held. Nominations of such candidates will be accepted if received in the Department of the Army not later than midnight on 30 June preceding the regular date of admission on 1 July. Letters whose post-office marks clearly show that they were placed in the mail prior to midnight of 30 June are held to meet the foregoing requirement.

**3. Sources of Admission**

Before a candidate can be permitted to undergo the entrance examinations to qualify for admission to the Military Academy, he must hold a letter of appointment issued by the Department of the Army. A letter of appointment is issued only upon receipt in the Department of the Army of a nomination from one of the recognized nominating authorities, to whom all applications for appointment must be made. The various

sources of admission, together with the nominating authority of each, are fully described below.

*a. States at large, congressional districts, Territories, District of Columbia, and Puerto Rico.*—The nomination of candidates, whether or not based upon preliminary competitive examination, for appointment from these sources, is entirely in the hands of the nominating authority who has the vacancy at his disposal and all applications must be addressed to him. These authorities are: 1. States at large: United States Senators; 2. Congressional districts: Representatives in Congress; 3. Territories: Delegates in Congress; 4. District of Columbia: commissioners thereof; 5. Puerto Rico: the resident commissioner. For each vacancy *four* candidates may be nominated, one to be named as *principal*, one as *first alternate*, one as *second alternate*, and one as *third alternate*. The first alternate, if qualified, will be admitted in the event of the failure of the principal; the second alternate, if qualified, will be admitted in the event of the failure of both the principal and the first alternate; and the third alternate, if qualified, will be admitted in the event of the failure of the principal, first, and second alternates. The law requires that candidates appointed from States at large, congressional districts, the Territories, the District of Columbia, or the island of Puerto Rico, must be *actual residents* thereof respectively.

*b. Panama Canal Zone.*—Appointments are made upon nomination of the Governor of the Panama Canal Zone and are restricted, by law, to the sons of civilians residing in the Canal Zone and the sons of civilian personnel of the United States Government and the Panama Railroad Company. Four candidates may be nominated for each vacancy in the same manner as outlined in *a* above.

*c. Vice Presidential.*—Appointments are made upon the personal selection of the Vice President and from the United States at large, there being no limitation imposed by law as to residence. Four candidates may be nominated for each vacancy in the same manner as outlined in *a* above. These appointments cannot be made until the duly elected Vice President is sworn into office.

*d. Honor military schools.*—Honor graduates of honor military schools are nominated for appointment by the heads of the respective schools and in the following manner: The Adjutant General maintains a roster of honor military schools as determined by annual Department of the Army inspections of educational institutions of the essentially military type. In July each year The Adjutant General anticipates the vacancies in the Corps of Cadets for admission the following year which are open to honor graduates, makes an equitable distribution of those vacancies among the honor military schools and notifies them accordingly. The head of each institution so notified must submit to The Adjutant General at a specified time the nominations of the honor graduates selected. Four candidates may be nominated by each school in the same manner as outlined in *a* above. Each nomination must contain a certification by the head of the



institution that the candidate is an honor graduate of a year for which the institution was designated an honor military school. No student may be rated as an honor graduate unless he has shown proficiency in subjects of his school work amounting to not less than the 15 units prescribed by the regulations for admission to the United States Military Academy. However, the institution is not limited to those graduates of the current year. All honor graduates are appointed subject to the same tests for mental and physical qualifications as are required of other candidates. (See pars. 7 and 8, sec. II.)

*e. Sons of deceased veterans of World Wars I and II.*—An act of Congress, approved 8 June 1926, as amended by acts of Congress approved 1 December 1942 and 24 November 1945, provides cadetships at the United States Military Academy for the sons of members of the land or naval forces (including male and female members of the Army, Navy, Marine Corps, and Coast Guard, and of all components thereof) of the United States, who were killed in action or have died of wounds or injuries received, or disease contracted, or preexisting injury or disease aggravated, in active service during World War I or II (as each is defined by laws providing service-connected compensation or pension benefits for veterans of those wars and their dependents.) The administration of these appointments has been delegated to the Department of the Army. Application should be made by letter (no form is prescribed) addressed to The Adjutant General, Washington 25, D. C., showing the full name, date of birth, and address of applicant (complete service address should be given if applicant is in the armed forces), and the name, rank, serial number, and last organization of the veteran parent together with a brief statement concerning the time, place, and cause of death. The claim number assigned to the veteran parent's case by the Veteran's Administration should also be furnished. All candidates from this source must undergo the regular entrance examination competitively since the vacancies available must, under the law, be awarded to those physically qualified candidates who make the highest proficient ratings in the order of merit established by the examination mentioned. Accordingly, candidates appointed under this law cannot qualify thereunder by the submission of educational records in lieu of the regular entrance examination. There is no restriction imposed as to residence.

*f. Presidential.*—These appointments are made upon the personal selection of the President and are reserved for the blood sons and adopted sons, *if legally adopted prior to their fifteenth birthday*, of members of the Regular Army, Navy, and Marine Corps who are still in the service, retired, or who died while serving therein. The available vacancies are awarded to those physically qualified competitors making the highest proficient ratings in the order of merit established at the annual entrance examination held the first Tuesday in March each year. Accordingly candidates appointed from this source cannot qualify by the submission of educational records in lieu of the regular entrance examination. Fail-

ure of a candidate to report for examination, for any cause, at the time and place authorized will vacate his appointment. The administration of these appointments has been delegated to the Department of the Army. Application by those eligible should be made by letter (no form is prescribed) addressed to The Adjutant General, Washington 25, D. C., giving the applicant's full name, address, and date of birth (complete service address should be given if applicant is in the armed forces), and the name, rank, and branch of service of the father. In the case of an adopted son, a copy of the order of court decreeing adoption, duly authenticated and certified by the clerk of the court, must accompany the application. There is no restriction imposed as to residence.

*g. Regular Army and National Guard.*—An act of Congress approved 4 May 1916 provides a quota of cadetships at the United States Military Academy to be divided equally between enlisted men of the Regular Army and of the National Guard. On or about 1 June each year The Adjutant General determines the number of prospective vacancies that will be available from this source for admission with the class entering the Military Academy on 1 July of the following year. The number of candidates selected to compete for admission is four times the number of available vacancies which are awarded annually to those physically qualified competitors making the highest proficient averages in the order of merit established at the March entrance examination as follows: for Regular Army vacancies, from among all Army and Air Force competitors regardless of the command from which selected; for National Guard vacancies, from among all National Guard competitors regardless of the State, Territory, or the District of Columbia, from which selected. In view of the competitive feature involved, failure of a duly appointed Regular Army or National Guard candidate to appear for examination, for any cause, at the time and place authorized will vacate his appointment.

(1) *Regular Army.*—The law prescribes that the applicant must have completed, as of the date of admission, one full year of active enlisted service in the Army and be in an active enlisted status at that time. It is not essential that the service be continuous; therefore, prior active Army or Air Force enlisted service may be counted in determining an applicant's eligibility. The major Army and Air Force commands are responsible for the selection of candidates, within the quotas allotted to each command, based upon written applications submitted through military channels by those eligible. Each selected candidate is issued a letter of appointment by the Department of the Army authorizing him to report for the regular entrance examination the following March which he must undergo in competition with the entire number of Army and Air Force candidates. The Regular Army appointments (see WD Cir 213, 9 Aug 47) for the 2 March 1948 entrance examination have been filled and further applications therefor cannot be accepted. Information concerning the submission of applications and the qualifications necessary

for selection to compete at the March 1949 entrance examination will be published throughout the Army, together with the quotas allotted, on or about 1 June 1948.

(2) *National Guard*.-----The law prescribes that an applicant must be an enlisted man of a federally recognized unit of the National Guard at the time of appointment and at the time of his admission to the United States Military Academy. He must also have served as an enlisted man in the National Guard not less than 1 year, as of the date of his admission. It is not essential that the service be continuous; therefore, former service in the National Guard may be counted in determining an applicant's eligibility. Service with a National Guard organization prior to its recognition by the Federal Government may be considered, the date of enlistment of the person concerned governing and not that of the recognition of the unit. Within quotas established by the Department of the Army, applicants are selected by the respective Governors of the States, Territories, and Puerto Rico, and the Commanding General of the District of Columbia National Guard from among successful competitors in a preliminary mental examination of a scope and nature similar to the regular United States Military Academy entrance examination conducted by the Governors and the Commanding General mentioned, between 1 August and 15 November of each year. Each selected candidate is issued a letter of appointment by the Department of the Army authorizing him to report for the regular entrance examination the following March which he must undergo in competition with the entire number of National Guard candidates. The National Guard appointments for the 2 March 1948 entrance examination have been filled and further appointments therefor cannot be issued. Information concerning appointments for the March 1949 entrance examination will be published, together with the quotas allotted, on or about 1 June 1948.

*h. Sons of Congressional Medal of Honor winners*.-----An act of Congress, approved 24 November 1945, provides that the number of cadets otherwise authorized by law at the United States Military Academy is increased by such number of cadets as may be appointed by the President from the United States at large from among the sons of persons who have been or who may later be awarded a Medal of Honor in the name of Congress for acts performed while in any of the armed forces of the United States, provided that such appointees are otherwise qualified for admission. The administration of these appointments has been delegated to the Department of the Army. Application by those eligible should be made by letter (no form is prescribed) to The Adjutant General, Washington 25, D. C., giving the applicant's full name, address, and date of birth (complete service address should be given if applicant is in the armed forces), and the name, rank, and branch of service of the parent and the date and a brief statement of the circumstances for which the Medal of Honor was awarded. Candidates appointed from this source may qualify in the same manner as a Congressional principal candidate. All who are found fully

qualified will be admitted as cadets, regardless of the number, since the law does not impose a limitation as to the total number to be admitted from this source.

*i. Qualified alternates and qualified candidates.*—Section 2, act of Congress, approved 3 June 1942, provides: “When on the date of admission of a new class the total number of cadets is below the number authorized, the Secretary of War may bring the Corps of Cadets to full strength by appointing qualified alternates and candidates recommended by the academic board, two-thirds thereof from qualified alternates and one-third thereof from qualified candidates (competitors): *Provided*, That any appointment made under this section shall be an additional appointment and shall not constitute an appointment otherwise authorized by law.” The only candidates who are eligible for consideration are those who have been found mentally and physically qualified in connection with an appointment held for admission the first weekday of July of the year concerned. No application is necessary for consideration by the academic board since all candidates who are fully qualified but who are not entitled to admission under the terms of their appointments are rated relatively according to general merit. The academic board in determining the general merit studies the records of these candidates and makes its selection based upon consideration of the academic grades and other pertinent factors which affect the qualifications of the various candidates to become officers of the Army. Since, under the law, the vacancies in the Corps of Cadets cannot be determined until the date of admission, notices to candidates selected are sent on or shortly after that date authorizing them to report for admission as cadets on 15 July.

#### **4. Educational Qualifications**

*a.* There are three methods of meeting the educational requirements for admission:

(1) By successfully passing the regular examination (see par. 6, sec. II); or

(2) By submitting a satisfactory educational certificate (secondary school) and passing the validating examination (see par. 7, sec. II); or

(3) By submitting an educational certificate which does not require the validating examination (see par. 8, sec. II).

*b.* In addition, there are two basic educational requirements which all candidates for admission to the United States Military Academy must meet:

(1) All candidates must take the West Point Aptitude Test. This is a 1-hour test requiring no special preparation and consisting of an elementary mathematics section and a language section. For a description of the test, see section VI.

(2) All candidates must qualify in United States history, either by presenting evidence that they have satisfactorily completed a standard

course in United States history or its equivalent (1 year in secondary school or 1 semester in college), or by passing the special examination in United States history. A description of the examinations in history is contained in section VI.

## **5. Entrance Examinations**

*a. Time.*—The regular Military Academy entrance examination and the examination for validating certain classes of certificates are held beginning on the first Tuesday in March each year. Each candidate designated to take one of these examinations will receive from the Department of the Army a letter of appointment. He must appear for examination at the time and place designated therein before a board of Army officers convened by the Department of the Army. Enlisted men appointed from the Army also receive authority from the Department of the Army to report for examination, and must report at the time and place specified. No other regular mental examination is held during the year. The failure of candidates holding noncompetitive appointments to appear for examination unless prevented by sickness or other unavoidable cause shall vacate the appointment; the failure of candidates holding competitive appointments to report for examination for any cause shall vacate the appointment.

A second validating examination and West Point Aptitude Test is held on the third Tuesday in June at West Point, N. Y., but is offered only for emergency vacancies which remain unfilled or occur after the March examination. Candidates appointed to fill such emergency vacancies must qualify by certificate or by certificate supplemented by the validating examination mentioned above.



*b. Place.*—Boards of officers are convened at certain designated places, listed below, for the purpose of conducting the regular entrance examinations. The place of examination selected by the Department of the Army for each candidate is the one nearest or most convenient to his home or to the school at which he is in regular attendance.

Army and Navy General Hospital, Hot Springs National Park, Ark.	Fort Knox, Ky.
Army Medical Center, Washington, D. C.	Fort Leavenworth, Kans.
Army Base, Boston, Mass.	Letterman General Hospital, Pre- sidio of San Francisco, Calif.
William Beaumont General Hos- pital, El Paso, Tex.	Fort Lewis, Wash.
Fort Benning, Ga.	March Field, Calif.
Fort Bragg, N. C.	Fort McPherson, Ga.
Fitzsimons General Hospital, Den- ver, Colo.	Governors Island, N. Y.
Fort Sam Houston, Tex.	Fort Sheridan, Ill.
Keesler Field, Biloxi, Miss.	Fort Sill, Okla.
	Schofield Barracks, T. H.
	San Juan, P. R.
	Corozal, C. Z.
	Fort Richardson, Alaska.

*c. Examination schedule.*—Schedule of examinations is as follows:

#### FIRST DAY

*Morning.*—All candidates. Report and instructions, 9 a. m. to 11 a. m., 2 hours. West Point Aptitude Test, 11 a. m. to 12 noon, 1 hour.

*Afternoon.*—Only those candidates whose credit in United States history has not been accepted. Special examination in United States history, 2 p. m. to 5 p. m., 3 hours.

#### SECOND DAY

*Morning.*—Regular examination in mathematics, 9 a. m. to 12 noon, 3 hours. Validating examination in mathematics, 9 a. m. to 10:30 a. m., 1½ hours.

*Afternoon.*—Regular examination in English, 2 p. m. to 5 p. m., 3 hours. Validating examination in English, 2 p. m. to 3:30 p. m., 1½ hours.

#### THIRD DAY

Physical examination and physical aptitude test until completed.

### 6. Admission by Regular Mental Examination

See section II, paragraph 4a (1).

*a.* All candidates who cannot qualify under paragraph 7 or 8, section II, must take the regular mental examination in mathematics and English. As stated in paragraph 4b (2), section II, all candidates must also qualify in United States history.

Candidates holding appointments from competitive sources (see par. 3e, f, and g, sec. II) cannot qualify under paragraph 7 or 8, section II,

since they are appointed to vacancies in the order of merit competitively established as a result of the regular mental entrance examination in mathematics and English (the examination in United States history is not a part of the competition).

*b. Mathematics.*—Candidates will be required to pass a satisfactory examination in those topics of algebra and plane geometry listed in paragraphs 10 *b* and *d* (Mathematics A and C), section II. A description of the examination is contained in section VI.

*c. English.*—Candidates will be required to pass a satisfactory examination in English grammar, composition, and literature as described in paragraphs 10 *g* and *h* (English A and B), section II. A description of the examination is contained in section VI.

## 7. Admission by Certificate and Validating Examinations

See section II, paragraph 4*a* (2).

The Academic Board will consider and may accept in lieu of the regular mental examination a certificate <sup>3</sup> with validating examination in mathematics and English in the following cases. (For alternate method of validating secondary school certificates, see par. 8*a* (2), sec. II. As stated in par. 4*b* (2), sec. II, all candidates must also qualify in United States history.)

*a.* A properly attested certificate (Form II) that the candidate has graduated from a preparatory school or public high school accredited by the United States Military Academy, provided that in his school work he has shown proficiency in subjects amounting to not less than 15 units of the list given in paragraph 9, section II.

Of the 15 units, 2 <sup>4</sup> must be in algebra, 1 in plane geometry, 1½ in English grammar and composition, 1½ in English literature, and 1 <sup>5</sup> in United States history. The remaining 8 units must be chosen from the list of optional subjects, and must not include commercial or other subjects not listed.

*b.* A properly attested certificate (Form II) that the candidate is in actual attendance in his senior year at a preparatory school or public high school accredited by the United States Military Academy and has satisfactorily completed 3½ years' work at such school, provided that the certificate shows specifically by subjects and units the work already completed and also that to be completed by graduation, and provided that the course the candidate is pursuing will, when completed, show proficiency in subjects amounting to not less than 15 units prescribed in *a* above.

<sup>3</sup> For lists of subjects and weights on certificates, see sec. II, par. 9.

<sup>4</sup> In the case of candidates from schools so organized as to offer only 1½ years of algebra, the 1½ units of credit so earned will be accepted as meeting the requirements in that subject if the certificate shows completion of all subject matter listed in sec. II, par. 10*b*.

<sup>5</sup> Lack of this credit does not cause rejection of the certificate but adds the requirement that the special examination in United States history be taken and passed.

A candidate submitting a certificate showing actual attendance at and prospective graduation from a preparatory or public high school must as a condition of admission continue his course of study and submit his diploma or other formal evidence of graduation at the time of entrance to the United States Military Academy. Failure to submit such evidence of graduation will disqualify the candidate for entrance.

The validating examination, required with all secondary school certificates (Form II) except those accepted under paragraph 8a (2), section II, includes the subjects of mathematics (A and C) and English (A). This validating examination is not identical with the regular mental entrance examination. It will be of such a nature as to determine the knowledge of a candidate, but not so difficult as to require for the desirable student an intensive special preparation.

A candidate whose certificate (Form II) has been rejected must take the regular mental entrance examination. A description of the validating examinations in mathematics and English are contained in section VI.

## **8. Admission by Certificate**

See paragraph 4a (3), section II.

a. The Academic Board will consider and may accept without other mental requirement, except that of paragraph 4b, section II (West Point Aptitude Test and United States history requirement):

(1) A properly attested college certificate (Form I) that the candidate is, or was upon leaving, a regularly enrolled student in good standing without condition in a university, college, or technical school accredited for admission to the United States Military Academy, provided that he entered college with the secondary school credits prescribed in paragraph 7a, section II, and provided further that he has completed successfully at least one semester in college. If he lacks not more than 2 units of the prescribed secondary school credits, required or optional, he may make up this deficiency in college at the rate of one semester of college work to 1 year of secondary school study.

A full record of academic work at college, giving subjects taken and grades attained in each, should be presented on Form I, which must be submitted in all cases where college work covers one semester or more.

The form I certificate must be accompanied by a Form II certificate covering work in secondary school, and the two certificates will be considered together in determining the candidate's mental qualifications.

(2) A secondary school certificate (Form II) as described in paragraph 7, section II, supplemented by a report from the College Entrance Examination Board that the candidate has taken its Scholastic Aptitude Test<sup>6</sup> provided the grades earned on this test are satisfactory. A

<sup>6</sup>The Scholastic Aptitude Test, prepared by the College Entrance Examination Board, 425 West 117 St., New York 27, N. Y., is the only such test accepted for exemption from entrance examinations. General information concerning such examinations may be obtained from the College Entrance Examination Board. Address it for this purpose at P. O. Box 592, Princeton, N. J. Tests prepared by State or other testing agencies are not accepted.

candidate may no longer elect to qualify mentally by passing that Board's Scholastic Aptitude Test in lieu of the validating examination unless the Scholastic Aptitude Test has been taken *prior* to the scheduled entrance examination (March or June) for which he has been designated. In cases where this test is taken on or after 6 December 1947, it must include either the Intermediate Mathematics Test or the Comprehensive Mathematics Test in place of the formerly prescribed Mathematical Section.

*b.* A candidate whose certificate has been rejected under paragraph 8*a*, section II, will be required to take the regular entrance examination except in cases where the Academic Board approves his credits under paragraph 7, section II, for admission subject to the validating examination.

The Academic Board may reject any certificate (Form I and II) for low grades, or upon any evidence, whether contained in the certificate or not, that creates a reasonable doubt as to the candidate's mental qualifications for admission. A record in the entrance examination of a former year is considered excellent evidence of mental qualifications for admission and is given great weight when certificates are being evaluated. Taking the examination, when unprepared, merely for practice and failing on the same may, therefore, have an adverse effect if entrance by certificate is sought in a later year.

A candidate whose certificate has been accepted under paragraph 8*a*, section II, is excused from the mental examination but must appear for the physical examination and for the West Point Aptitude Test. He is rejected as mentally unqualified if he fails to pass this aptitude test.

## 9. Subjects and Credits

The list of subjects and corresponding weights in units is as follows:

### *a. Required.*

Every certificate must show evidence of proficiency in these subjects:

	<i>Units</i>		<i>Units</i>
Mathematics, A.....	2	English, A.....	1½
Mathematics, C.....	1	English, B.....	1½
History, D, <sup>7</sup> United States history.....	1		

### *b. Optional.*

The remaining 8 units may be supplied from among the following subjects and no others:

	<i>Units</i>		<i>Units</i>
Mathematics, B.....	½	Latin, fourth year.....	1
Mathematics, D.....	½	Greek, grammar and composition.....	1
Mathematics, E.....	½	Any foreign language, first year.....	1
English, fourth year.....	1	Any foreign language, second year.....	1
History, A, ancient history.....	1	Any foreign language, third year.....	1
History, B, European history.....	1	Any foreign language, fourth year.....	1
History, C, English history.....	1	Physics.....	1
History, world history.....	1	Chemistry.....	1

<sup>7</sup> See footnote 5, par. 7*a*, sec. II.

	<i>Units</i>		<i>Units</i>
Economics.....	1	General science.....	1
Sociology.....	1	Biology.....	1
Social democracy.....	1	Botany.....	1
Problems of American democracy.....	1	Zoology.....	1
Contemporary problems.....	1	Geography.....	1
Citizenship.....	½	Drawing, mechanical or freehand.....	1
Government.....	½	Bookkeeping.....	1
Civics (when not included in history D).....	½	Physiology.....	1
Latin, first year.....	1	Psychology.....	1
Latin, second year.....	1	Astronomy.....	½
Latin, third year.....	1	Geology.....	½

## 10. Definitions and Detailed Requirements

*a. The unit.*—A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work. A 4-year secondary school curriculum should be regarded as representing not more than 16 units of work.

This statement is designed to afford a standard of measurement for the work done in secondary schools. It takes the 4-year high-school course as a basis, and assumes that the length of the school year is from 36 to 40 weeks, that a period is from 40 to 60 minutes in length, and that the study is pursued for 4 or 5 periods a week; but under ordinary circumstances a satisfactory year's work in any subject cannot be accomplished in less than 120 60-minute hours or their equivalent.

*b. Mathematics, A, algebra, two units.*—The meaning, use, evaluation, and necessary transformations of simple formulas involving ideas with which the pupil is familiar, and the derivation of such formulas from rules expressed in words.

The graph and graphical representation in general. The construction and interpretation of graphs.

Negative numbers; their meaning and use.

Linear equations in one unknown quantity, and simultaneous linear equations involving two unknown quantities, with verification of results. Problems.

Ratio, as a case of simple fractions; proportion, as a case of an equation between two ratios; variation. Problems.

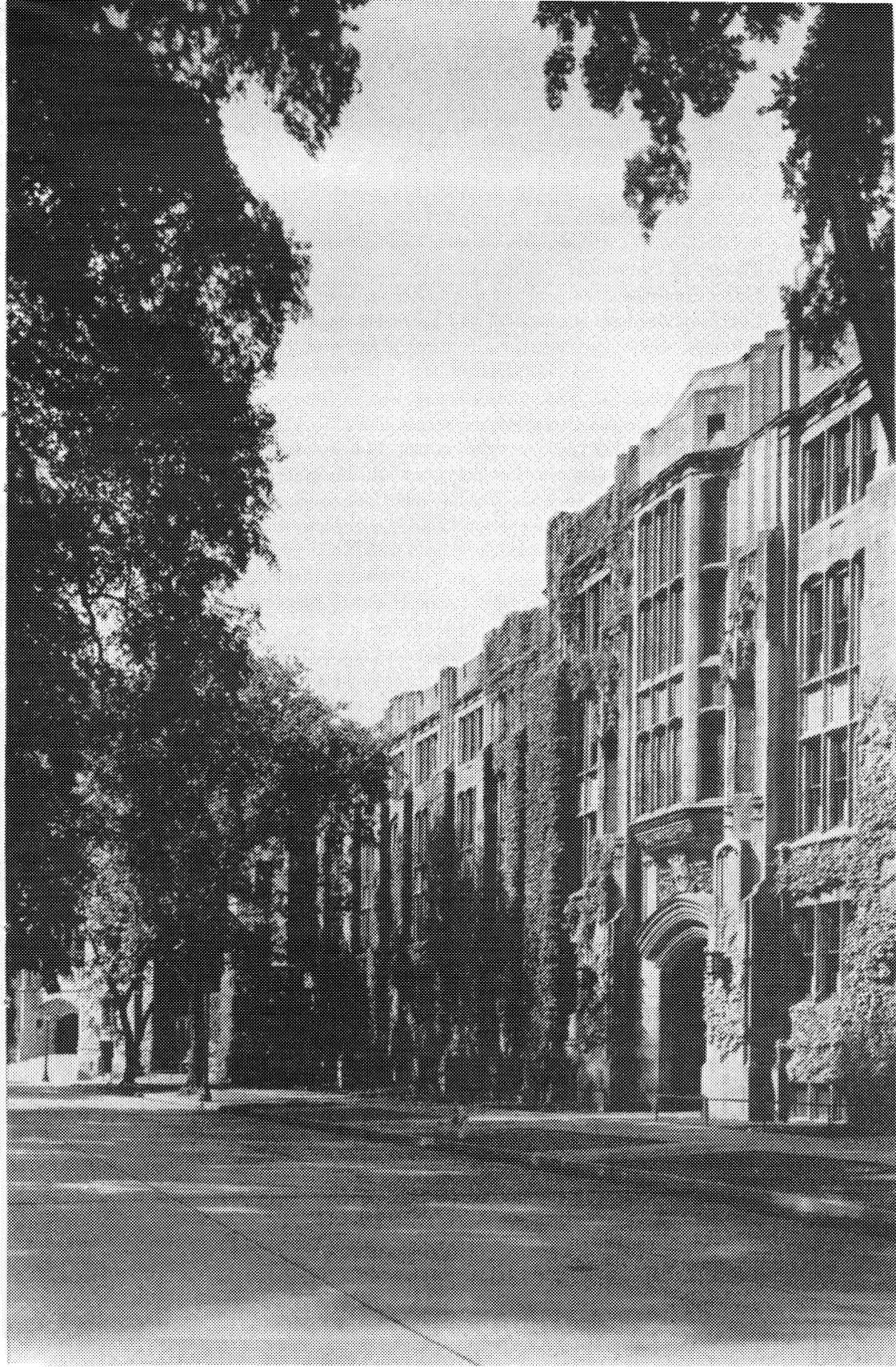
The essentials of algebraic technique.

Exponents and radicals; simple cases.

Numerical trigonometry.

Numerical and literal quadratic equations in one unknown quantity. Problems.

The binomial theorem for positive integral exponents with applications.



Arithmetic and geometric series.

Simultaneous linear equations in three unknown quantities.

Simultaneous equations, consisting of one quadratic and one linear equation, or of two quadratic equations of certain types. Graphs.

Exponents and radicals. Logarithms.

*c. Mathematics, B, advanced algebra, one-half unit.*

Theory of equations.

Determinants.

Complex numbers (numerical and geometric treatment), simultaneous quadratics, scales of notation, mathematical induction, permutations and combinations, and probability.

*d. Mathematics, C, plane geometry, one unit.*—The usual theorems and constructions presented in good textbooks, including the general properties of plane rectilinear figures; the circle and measurement of angles; similar polygons; areas; regular polygons and measurement of the circle.

The solution of numerous original exercises, including loci problems.

Applications to the mensuration of lines and plane surfaces.

*e. Mathematics, D, solid geometry, one-half unit.*—The usual theorems and constructions presented in good textbooks, including the relations of planes and lines in space; the properties and measurement of prisms pyramids, cylinders, and cones; the sphere and the spherical triangle.

The solution of numerous original exercises, including loci problems.

Applications to the mensuration of surfaces and solids.

*f. Mathematics, E, trigonometry, one-half unit.*—Definition of the six trigonometric functions of angles of any magnitude, as ratios. The computation of five of these ratios from any given one. Functions of 0, 30, 45, 60, and 90, and of angles differing from these by multiples of 90.

Determination, by means of a diagram, of such functions as  $\sin(A-90)$  in terms of the trigonometric functions of  $A$ .

Circular measure of angles; length of an arc in terms of the central angle in radians.

Proofs of the fundamental formulas, and of simple identities derived from them.

Solution of simple trigonometric equations.

Theory and use of logarithms, without the introduction of work involving infinite series. Use of trigonometric tables, with interpolation.

Derivation of the Law of Sines and the Law of Cosines.

Solution of right and oblique triangles (both with and without logarithms) with special reference to the applications.

*g. English, A, grammar and composition, one and one-half units.*

The principles of English grammar.

The rules of English composition.

Proficiency in spelling, punctuation, grammar, and composition acquired by repeated oral and written exercises.

*h. English, B, literature, one and one-half units.*—The study of selected masterpieces in English and American literature.

Familiarity with the nature and characteristics of the different literary forms, such as the essay, the novel, and biography in prose, the lyric and the epic in poetry, and the comedy and the tragedy in drama.

Knowledge of the history and development of English and American literature, including acquaintance with the chief periods, as the Elizabethan, the Puritan, the Restoration, and the Victorian, with the leading writers of such periods, and with the most important works of each writer.

*i. History, A, ancient, one unit.*—History down to the death of Charlemagne (814 A. D.) with special reference to Greek and Roman history, and with a short introductory study of the more ancient nations.

*j. History, B, European, one unit.*—History from the fall of Rome to the present time.

*k. History, C, English, one unit.*—History of England, emphasizing the important epochs and movements and showing the relations of English history to the history of other countries, especially the United States.

*l. History, D, American, with or without civil government, one unit.*—The history of the United States, and, if civil government is included, a study of the United States Constitution, of the Federal Government, with its powers, organization, and operation, and of the relations between the Federal and the State Governments.

*m. History, world, one unit.*—A general survey.

## 11. General Information as to Certificates

All necessary papers, *including a set of blank certificate forms*, are furnished by The Adjutant General, Washington 25, D. C., to each duly nominated candidate with his letter of appointment. All candidates, of every category, should submit their complete educational records on these forms, whether or not they wish to claim exemption from any examinations. Candidates whose schooling has been so irregular or incomplete that the forms do not properly describe it should submit statements of their scholastic work, certified by their teachers or tutors, in as much detail as possible.

Certificates should be submitted not later than 15 February. A certificate received between 15 February and the examination will receive consideration; but, in view of the short time left to the Academic Board to investigate its value, no assurance will be given that such certificate can be acted on in time to exempt the candidate from the regular mental examination. Certificates received at West Point too late for full investigation and appraisal before 9 a. m. on the first Tuesday in March of each year will be filed without action thereon. Candidates will be notified of the time and date of the receipt of such certificates.

*Candidates who submit certificates on a date which does not allow the Academic Board sufficient time to investigate their value and notify them regarding the final action thereon prior to the day set for the examination should proceed with the regular examination.*

Candidates who are informed that their certificates have been accepted, must present themselves at the regular time and place, as herein prescribed, for physical examination and the tests prescribed in paragraph 4*b*, section II, and, if required, for the validating examination.

A candidate submitting a secondary school certificate who has taken the College Entrance Examination Board's Scholastic Aptitude Test should have his record in this test forwarded to the Superintendent, United States Military Academy, West Point, N. Y., at the same time as his school certificate. He should state on the latter that this is being done.

A candidate whose certificate qualifications have been approved, provided he completes his regular high-school or preparatory-school course with good grades and graduates, must bring with him, and present on the day he reports for admission his diploma or certificate of graduation, together with a certified statement of the grades attained in his academic work, in order that the Academic Board of the Military Academy may determine whether or not these provisions have been fulfilled.

A candidate who has once satisfactorily fulfilled all the mental requirements for entrance will be regarded as mentally qualified at any subsequent opportunity which may arise for entrance with the same class.

In case a candidate who has submitted a satisfactory certificate for the March examination is not admitted as a result of that examination but received another appointment prior to the June examination, (*a*) if he did not take the March examination, his certificate will be considered satisfactory for the June examination; (*b*) if he failed in the March examination, his certificate will be reconsidered in connection with the results of that examination.

Any certificate accepted for entrance with one class is not valid for entrance with a succeeding class unless reapproved. It must be resubmitted, accompanied by a full statement of the candidate's educational work in the interim, and both certificate and statement will be subject to careful scrutiny by the academic board.

A candidate, not an ex-cadet, who has once been declared mentally qualified for entrance upon written examination, either regular or validating, need not undergo a second mental examination in case of any subsequent appointment unless the requirements for entrance have been changed in the meanwhile. A candidate reported not qualified mentally in one or more subjects on one examination will be required to qualify in all subjects at any subsequent examination.

## **12. Physical (Medical) Examination**

*a. Preliminary.*—Each candidate designated as principal or alternate for appointment as a cadet of the Military Academy should ascertain as soon as practicable whether or not he has any physical defect that would disqualify him for admission or any that should be corrected by treatment before presenting himself for examination.

A preliminary physical examination will be authorized by the Department of the Army only upon specific request. Any candidate who holds a letter of appointment issued by the Department of the Army may apply to the office of The Adjutant General, Washington 25, D. C., for permission to undergo a preliminary examination, and the necessary instructions setting forth the place of examination will be issued. A prospective candidate will also be authorized to undergo a preliminary physical examination upon receipt in the Department of the Army of a request from the Member of Congress who is considering him for nomination with a view to appointment as a candidate. The Member of Congress or the prospective candidate will be informed by the Department of the Army of the result.

It should be clearly understood by the candidate that this examination is a *preliminary* one only and *in no way commits or obligates the Department of the Army to accept a candidate* who is found by the regular medical examining board to have a physical defect which is considered to be disqualifying.

*b. Regular.*—The physical examination of a candidate begins after the conclusion of his last mental examination, and is continued daily until completed, but those candidates who upon reporting at the place of examination present evidence<sup>8</sup> that they have been excused from the mental examination under the provisions of the certificate privilege, or as the result of having qualified mentally at a previous examination, are usually examined physically as soon as possible after reporting and are not required to wait until the schedule of mental examinations has been completed

*c. Physical requirements.*—(1) Auditory acuity of all candidates will be determined by the whispered voice, and by the audiometer using the following frequencies: 256, 512, 1024, 2048, 4096, and 8192. At the time of examination the candidate should be free of upper respiratory infection. Hearing when tested by the whispered voice must be 15/15 in each ear and loss of hearing as determined by the audiometer must *not* be greater than fifteen (15) decibels in any of the frequencies 512, 1024, 2048 nor greater than thirty (30) decibels in either of the frequencies 4096 or 8192. The following-named conditions are causes for rejection: The total loss of an ear, marked hypertrophy or atrophy, or disfiguring deformity of the organ; atresia of the external auditory canal, or tumors of this part; acute or chronic suppurative otitis media, or chronic catarrhal otitis media; mastoiditis, acute or chronic; existing perforation of the membrana tympani from any cause whatever.

(2) Vision as determined by the visual test types (without a cycloplegic) must not fall below 20/30 in either eye without glasses, correctible with glasses to 20/20 in each eye, when no organic disease in either eye exists.

<sup>8</sup> The evidence must be in the form of an official communication from the Department of the Army, and must specify exemption from the mental examination of the current year.

Both eyes must be free from acute or chronic disease. Errors of refraction, if considered excessive, may be a cause for rejection even though the visual acuity falls within acceptable limits. Total hyperopia of more than two diopters or total myopia of more than three quarters (0.75) diopter in any meridian in either eye is cause for rejection.

The following-named conditions are also cause for rejection: Manifest disturbance of muscle balance; esophoria of more than 10 prism diopters, exophoria of more than 5 prism diopters, or hyperphoria of more than 1 prism diopter; impairment of the sense of color perception in a pronounced degree; trachoma, or xerophthalmia; chronic conjunctivitis; pterygium encroaching upon the cornea; complete or extensive destruction of the eyelids; disfiguring cicatrices, adhesions of the lids to each other or to the eyeball; inversion or eversion of the eyelids, or lagophthalmus; trichiasis, ptosis, blepharospasm, or chronic blepharitis; epiphora, chronic dacryocystitis, or lachrymal fistula; chronic keratitis, ulcers of the cornea, staphyloma, or corneal opacities encroaching on the pupillary area and reducing the acuity of vision below the standard noted above; irregularities in the form of the iris, or anterior or posterior synechiæ sufficient to reduce the visual acuity below the standard; opacities of the lens or its capsule, sufficient to reduce the acuity of vision below the standard, or progressive cataract of any degree; extensive coloboma of the choroid or iris, absence of pigment, glaucoma, iritis, or extensive or progressive choroiditis, retinitis, detachment of the retina, neuroretinitis, optic neuritis or atrophy of the optic nerve; loss or disorganization of either eye, or pronounced exophthalmus, true nystagmus; or permanent or well-marked strabismus; diplopia, or night blindness; abnormal conditions of the eyes due to disease of the brain; malignant tumors of lids of eyeballs; ashtenopia accompanying any ocular defect.

(3) *Teeth*.—No candidate will be accepted unless he has a minimum of 6 serviceable vital masticating teeth (bicuspid and molars) above and 6 below serviceably opposing and also 4 serviceable vital incisor teeth (incisors and cuspids) above and 4 below serviceably opposing. Therefore, the minimum requirement consists of a total of 12 masticating teeth and 8 incisor teeth, all of which must be so opposed as to serve the purpose of normal mastication. In cases in which insufficiency of teeth may be remedied by the eruption of third molars, if an X-ray of the third molar region determines a normal third molar properly positioned and developed, it may be assumed that it will have a normal eruption, and the candidate may be credited with possession of this tooth.

Vital teeth properly filled with permanent filling material, or well crowned, will be considered serviceable if otherwise acceptable. A one or two tooth replacement by a standard method of fixed bridgework will be accepted in lieu of a serviceable vital tooth when the abutment teeth are otherwise acceptable and the bridge well constructed.

A tooth will not be considered serviceable if it is a deciduous tooth, or if it fails to enter into serviceable occlusion with an opposing tooth, if

it has an unfilled cavity, if it supports a defective filling or crown, if it is nonvital, or if there is destruction of the supporting tissues of the tooth, such as results from chronic gingivitis, pyorrhea, etc.

Causes for rejection are: Failure to meet the standard of minimum requirements outlined above; the loss of three adjoining masticating teeth in either side of the upper or lower jaw; disfiguring spaces between anterior teeth, such as result from the extraction of a tooth; marked irregularity of the teeth; and marked malocclusion. No candidate will be accepted until all cavities in the teeth have been filled with proper permanent fillings.

(For additional causes for physical disqualification see sec. VI.)

*d. Physical proportions for height, weight, and chest measurements for all candidates except Filipinos.*—The requirements of the following tables of physical proportions are for growing youths and are for guidance in connection with the other data of the examination, a consideration of all of which will determine the candidate's physical eligibility. Mere fulfillment of the requirements of the standard tables does not determine eligibility.

Height	Weight		Minimum chest measurement at expiration	Height	Weight		Minimum chest measurement at expiration
	Minimum	Maximum			Minimum	Maximum	
<i>Inches</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Inches</i>	<i>Inches</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Inches</i>
66	120	170	30.50	72	144	201	32.50
67	124	175	30.50	73	148	208	32.50
68	128	180	31.00	74	152	214	33.00
69	132	185	31.50	75	156	220	33.00
70	136	190	32.00	76	160	226	33.50
71	140	195	32.00				

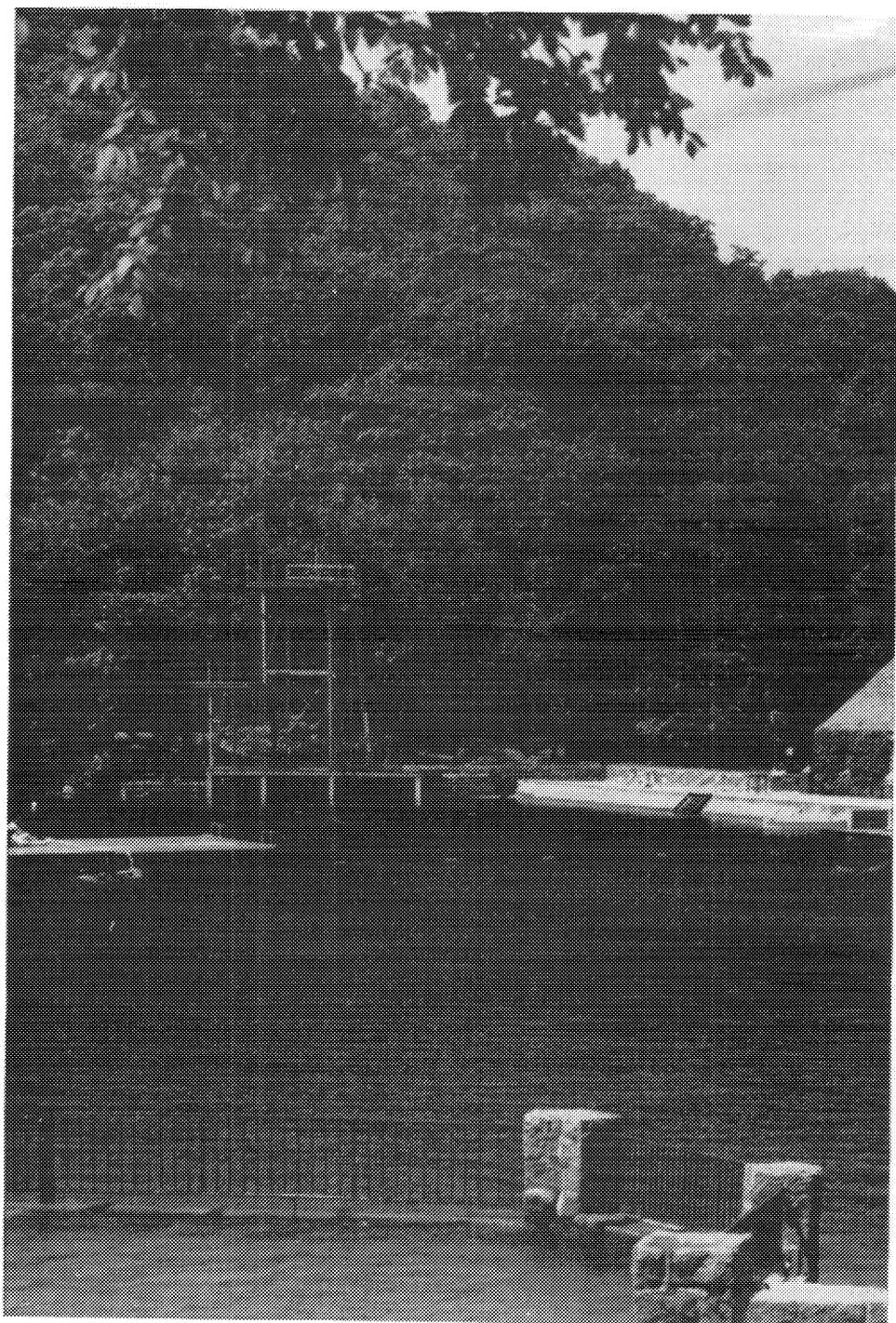
*Note.*—Fractions of an inch will be reduced to the quarter of an inch, but candidates must be at least 66 inches in height. No candidate will be accepted who is more than 76 inches in height. Height to be taken without shoes and weight without clothes.

Medical examiners will recommend rejection of individuals who show poor physical development and those who appear to be undesirable candidates because of excess fat, even though their measurements may come within the figures stated in the above table. In such instances, the report will show in detail the findings upon which recommendation for rejection is based.

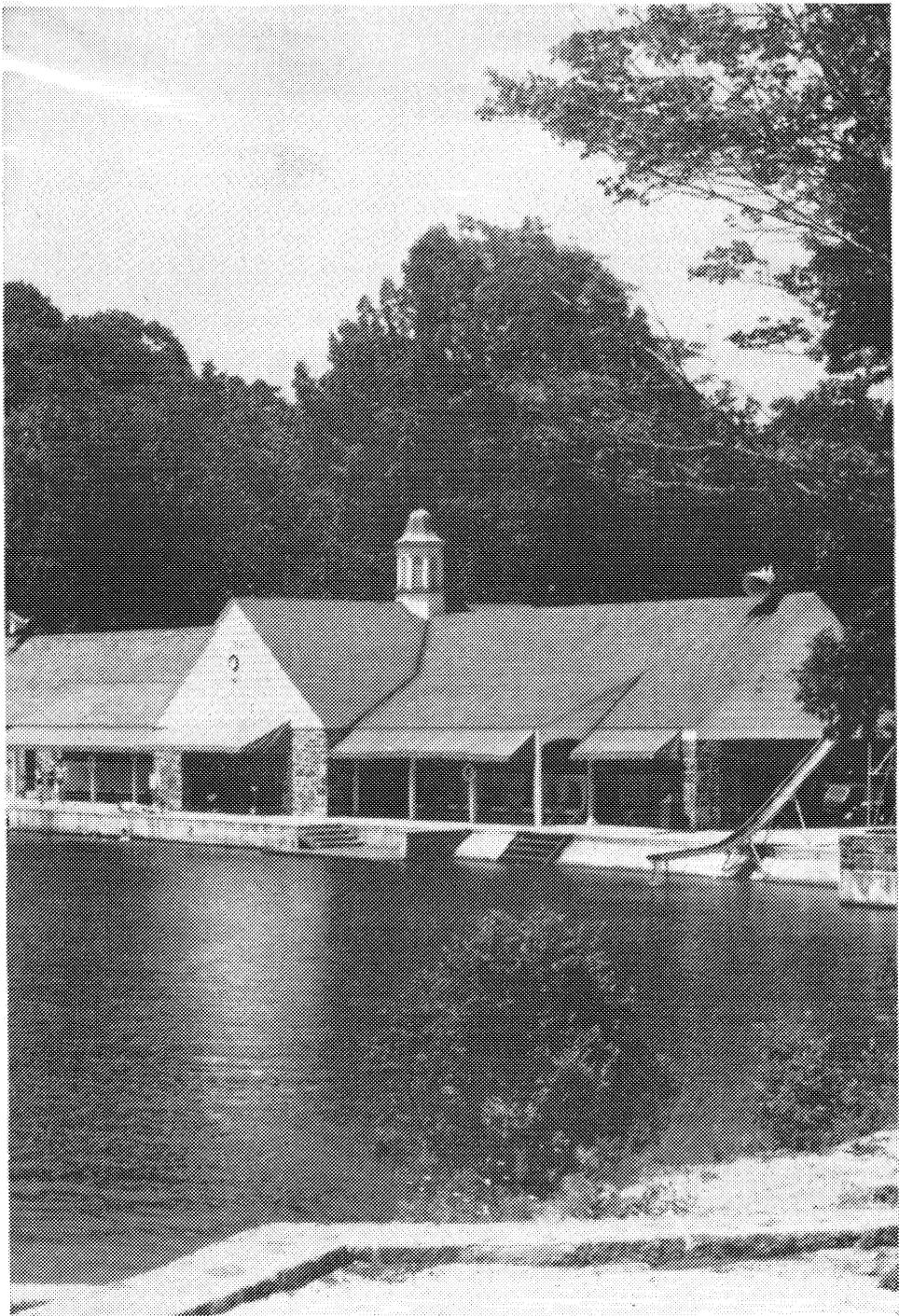
Recommendations for waiver of excess weight will be made in cases in which the general appearance and conformation of the candidate and the rest of the examination clearly indicate that he is of the robust type and that there is no tendency to obesity, endocrine imbalance, cardiovascular disease, or other defect which is likely to shorten the period of useful active service normally expected of an Army officer. (See par. 1a (1) (c), AR 40-100.)

*e. Minimum standards for Filipino applicants.*

Height	Weight	Chest measurement at expiration	Height	Weight	Chest measurement at expiration	Height	Weight	Chest measurement at expiration
<i>Inches</i>	<i>Pounds</i>	<i>Inches</i>	<i>Inches</i>	<i>Pounds</i>	<i>Inches</i>	<i>Inches</i>	<i>Pounds</i>	<i>Inches</i>
59	100	28½	63	105	29½	67	118	30½
60	101	28¾	64	107	29¾	68	124	30¾
61	102	29	65	110	30	69	127	31
62	103	29¼	66	113	30¼	70	130	31¼



*Delafield Pond*



### 13. Physical Aptitude Examination

All candidates must qualify in a Physical Aptitude Examination. This is a 1 hour examination measuring neuromuscular coordination, muscular power, muscular endurance, speed, cardiovascular endurance, and flexibility. The tests will typify the abilities of running, jumping, throwing, climbing, dodging, lifting, pushing, pulling, etc. *Each candidate is required to take rubber-soled athletic shoes, socks, undershirt, and long trousers (athletic supporter—optional) with him when he reports for the examinations.*

It is recommended that candidates prepare for this examination by engaging in all round vigorous activities such as running, conditioning exercises, competitive games, etc., rather than practicing on specific test items. A candidate may consider himself prepared to meet the minimum standards of physical aptitude if he can achieve performances on physical tests in general not lower than those here listed.

- a. Vertical jump..... 17 inches.  
The difference between the height an individual can reach and the height he can jump and reach.
- b. Standing broad jump for distance..... 6 feet 9 inches.
- c. 3 Broad jumps for distance..... 20½ feet.  
Standing start with 3 continuous broad jumps.
- d. Pull-ups..... 3 times.  
Chinning oneself on a horizontal bar, grasping bar with back of hand toward face.
- e. Dips..... 3 times.  
Raising and lowering oneself on parallel bars by means of the arms. The body is lowered until upper arm passes the horizontal.
- f. Push-ups..... 16 times.  
Standard push-ups starting from the leaning rest position.
- g. Dodge run..... 27 seconds.  
A run through a maze placed on a gymnasium floor. This test is described in the book entitled "Achievement Scales in Physical Education Activities for College Men" by F. W. Cozens, Lea & Febinger Publishing Co.
- h. 300-yard run (indoor track—11 laps to the mile)..... 46.7 seconds.
- i. 300-yard run..... 65 seconds.  
This test is a shuttle run on a gymnasium floor between two turning blocks placed 25 yards apart.
- j. 100-yard run..... 18.9 seconds.  
This test is a shuttle run on a gymnasium floor between two turning blocks placed 25 yards apart.
- k. 50-yard run..... 8.7 seconds.  
This test is a shuttle run as described under the above 100-yard run.
- l. Bar vault for height..... 4 feet 6 inches.  
From a standing position vault over a horizontal bar by touching it with only the hands using either flank or front vault.

- m. Burpee test for 20 seconds ..... 10½ times.  
 Continuous movements from the standing position to the squat, to the leaning, rest, to the squat and back to the standing position.
- n. Squat jumps (total number possible) ..... 28 times.  
 From the squatting position on the right heel with fingers laced on top of head palms downward, and with left foot slightly advanced, spring upward until both knees are straight and both feet clear the floor. While the feet are off the floor advance the right foot and drop to a squat on the left heel. Spring up again and repeat as many times as possible.
- o. Sit-ups ..... 30 times.  
 The total number of sit-up movements that can be performed with a partner holding the feet.
- p. Sit-ups for speed ..... 20 times.  
 The number of sit-up movements that can be performed in 30 seconds while lying on a gymnasium mat with toes hooked under a bar.
- q. Softball throw for distance using a regulation softball (12-inch circumference) ..... 140 feet.
- r. Basketball throw for distance using a regulation basketball ..... 65 feet.
- s. Medicine ball put ..... 33 feet.  
 A 6-pound medicine ball is put using the same movement as required for a shot put.
- t. Hop, step, and jump ..... 20 feet.  
 From a standing position take a hop, a step, and a jump to gain as great a distance as possible.
- u. 100-yard pick-a-back carry ..... 27.0 seconds.  
 Carrying a partner astride his back one runs 100 yards by shuttling back and forth around stakes placed 25 yards apart. The partner must be within 10 pounds of one's own weight.
- v. Rope climb (7 seconds) ..... 10½ feet.  
 Climb a regulation gymnasium rope as high as possible in 7 seconds, using hands and feet or hands alone, starting from a standing position.

The examination items will be selected from the above list and candidates may consider themselves qualified to meet the minimum standard of the Physical Aptitude Examination if they can achieve the performances indicated above. The examination will be graded on the basis of the total score. In other words, failure to achieve a passing score on a single test will not cause failure if a passing grade is achieved on the whole examination. A candidate once found qualified in the physical aptitude examination will not be required to undergo the examination again in connection with any subsequent appointment.

#### 14. Physical Conditioning

a. A warning is here stressed that passing the Physical (Medical) examination and the Physical Aptitude Examination does not mean that a candidate is sufficiently fit physically or conditioned for the duties he

will undergo immediately upon entrance to the Military Academy. Passing these examinations simply means that the candidate has a normal body and has no apparent serious medical defects. It does not insure proper physical fitness to undergo the initial training at the United States Military Academy without considerable difficulty. Because of the nature of the new cadets' training during their first 2 months at the Academy the physical demands are necessarily great. Experience has indicated that those cadets who, prior to admission, have hardened themselves physically are best able to meet these training requirements. The cooperation of parents is enjoined to encourage candidates to participate in some form of vigorous physical exercise prior to their arrival at the Academy.

*b.* Much valuable time has been lost from instruction because of poor physical condition, sore feet, muscular soreness, strained arches, and many other physical impairments due to unaccustomed physical exertion. This loss can be avoided if all new cadet candidates begin to condition themselves immediately upon notification of appointment. The conditioning program may include daily exposure to sunlight, running, taking long hikes, swimming, and other types of exercise.

*c.* Candidates are advised to study carefully the training hints presented in paragraph 5, section VI, as a basis for a thoroughgoing physical conditioning program to be pursued for as long a period as possible prior to admission to the Military Academy.

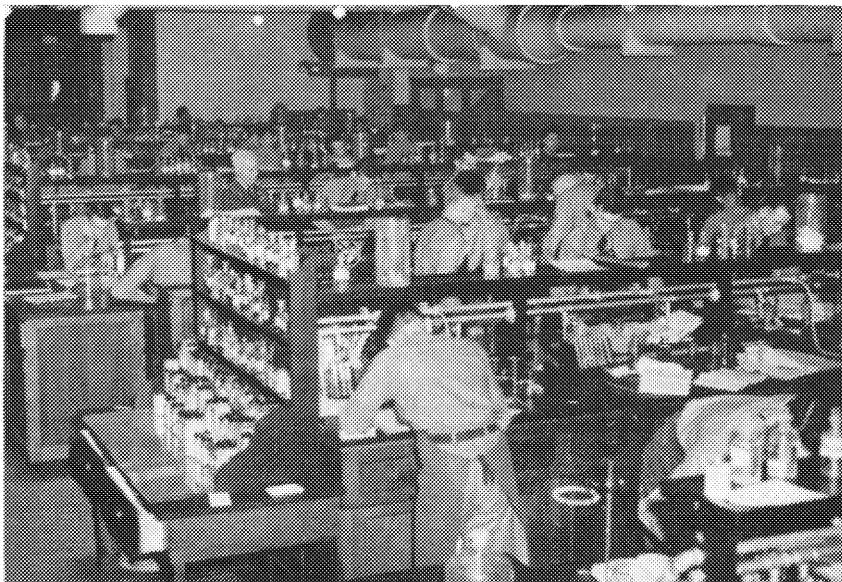
## **15. Deposit Upon Entrance**

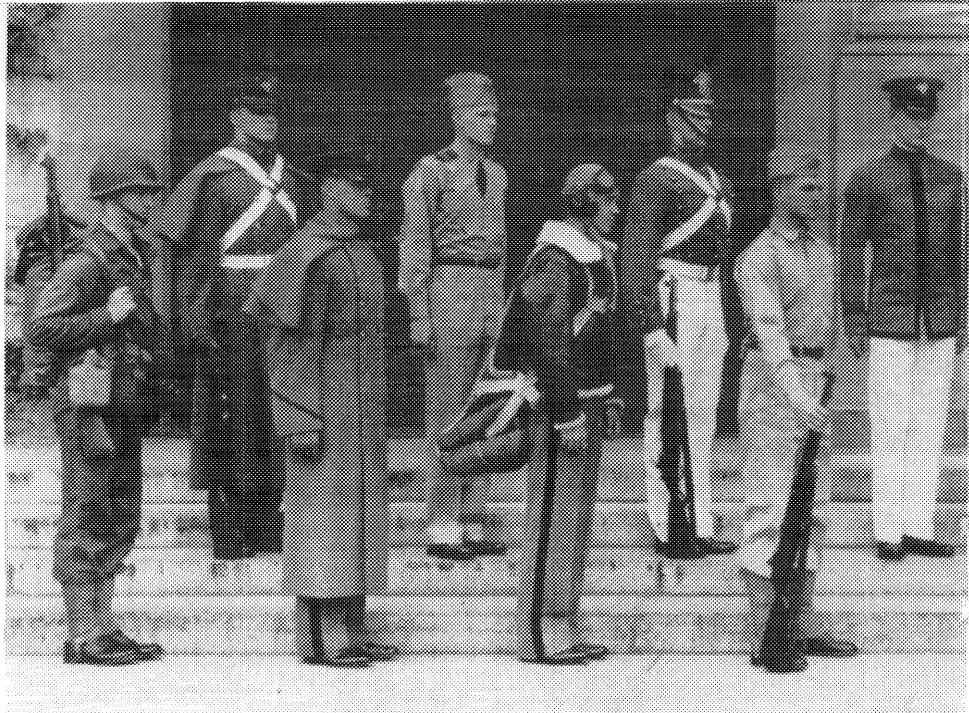
The cost of the uniform and personal equipment with which the new cadet is provided immediately after admission is approximately \$300. This sum must be deposited with the treasurer of the Academy before the cadet is admitted. Parents of candidates are advised to forward the required deposit by draft, payable to the Treasurer, United States Military Academy, who will credit it to the new cadet's account. Cadets who exercise proper economy will have upon graduation a sufficient balance to their credit with the treasurer to purchase the initial supply of uniforms and equipment which they will need as officers.

Candidates are advised, on leaving home for admission, to take with them no more money than is needed for traveling expenses. Any balance in their possession at the time of admission is deposited to their credit with the treasurer. Except for members of the armed forces, who are provided transportation or are allowed mileage as provided in Army Regulations, cadets are allowed 5 cents per mile for traveling expenses from their homes to the Military Academy. Such mileage is credited to the cadet's account after his admission unless he makes a specific written request to the Commandant of Cadets that the mileage allowance be sent to his parents.

### SECTION III—ORGANIZATION AND ADMINISTRATION

	Page
1. Direction and Supervision.....	36
2. Board of Visitors.....	36
3. Officers, Headquarters and Staff.....	37
4. Officers, Departments of Instruction.....	38
5. Composition of the Corps of Cadets.....	39
<i>a.</i> United States and Territories.....	39
<i>b.</i> Filipino cadets.....	39
<i>c.</i> Foreign cadets.....	40





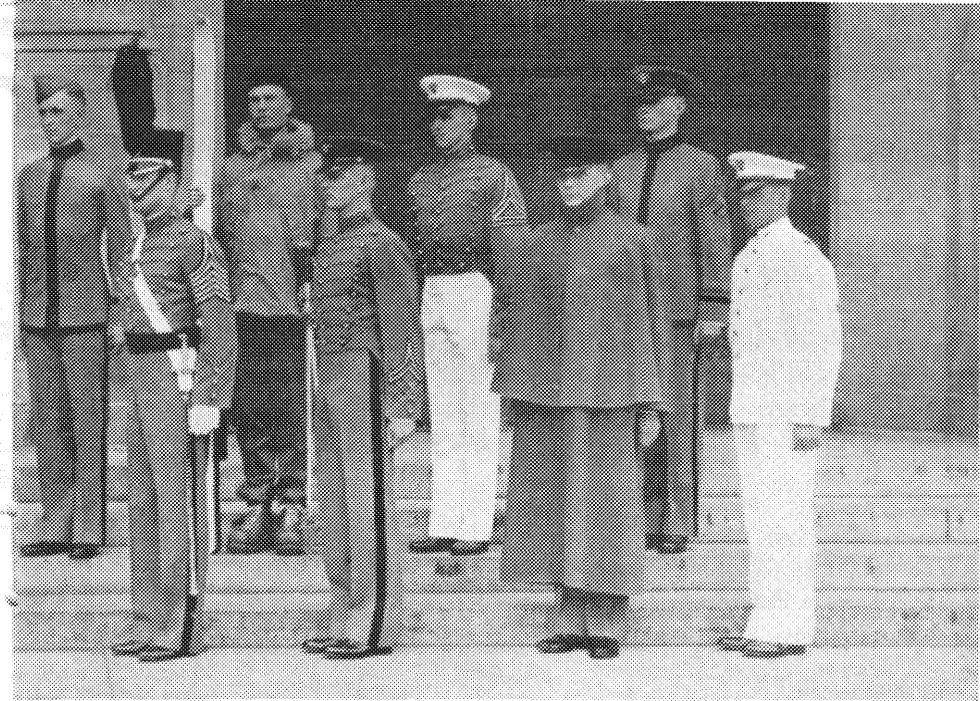
## **ORGANIZATION AND ADMINISTRATION**

### **1. Direction and Supervision**

Direction and supervision of the Military Academy are vested by law in the Department of the Army under such officer or officers as the Secretary of the Army may select, and, in accordance with this provision, the Chief of Staff has been designated as the officer in charge of all matters pertaining to the institution.

### **2. Board of Visitors**

The Board of Visitors to the United States Military Academy, as provided by an act of Congress approved 17 May 1928, as amended by the Legislative Reorganization Act of 1946, consists of five members of the Senate Committee on Armed Services, two members of the Senate Committee on Appropriations, seven members of the House Committee on Armed Services and five members of the House Committee on Appropriations, who are appointed by the respective chairmen thereof. The law prescribes that the Board visit the Military Academy at least once annually at such time or times as the chairman of the Board may designate.



### 3. Officers, Headquarters and Staff

a. *Superintendent.*—Taylor, Maxwell D., O14898, Maj. Gen., USA

b. *Headquarters and Staff.*

(1) *Personal Staff.*

Military Secretary to the Superintendent.—Ginder, Allen W. O22148,  
Lt. Col., Inf

Aide.—Hogan, Henry L. III, O26143, Capt. AC

(2) *General Staff.*

Chief of Staff.—Swofford, Ralph P., Jr., O18026, Col., AC

Asst. Chief of Staff G-1.—Grant, Melville F., O14977, Col., AGD

Asst. Chief of Staff, G-2, G-3—Hughes, Oliver W., O14974, Col., Inf

Asst. Chief of Staff, G-4.—Viney, A. G., O17511, Col., CE

Asst., G-4.—Fox, Harry L., O249146, Col., CE-Res

(3) *Special Staff.*

Adjutant General.—Smith, Leland S., O12799, Col., AGD

Ordnance Officer.—Briggs, Ralph D., O275763, Lt. Col., ORD-NG

Provost Marshal.—Stowell, John H., O341945, Maj., CMP-Res

Signal Officer.—Goodrich, Raymond H., O22911, Lt. Col., Sig. C

Surgeon.—Kirkpatrick, Charles L., O18642, Col., MC

Staff Judge Advocate.—Chandler, Robert E., O17559, Col., JAGD  
 Fiscal Officer.—Doherty, John H., O11318, Col., FD  
 Finance Officer.—Uhler, Frederick C., O25003, Capt., FD  
 Treasurer.—Badger, George M., O12139, Col., CAC  
 Quartermaster.—Ehlen, Edward S., O19286, Lt. Col., QMC  
 Post Engineer.—Cuttino, Thomas E., O31397, Lt. Col., CE  
 Public Relations Officer.—Moore, Ned D., O18212, Col., Inf  
 Special Services Officer.—Gustafson, Arthur W., O301400, Lt. Col., Inf  
 Post Exchange Officer.—Johnson, Phillip F., O901459, Maj., AUS  
 Librarian.—Morton, William J., Jr., O15158, Lt. Col., FA-Ret  
 Secretary-Treasurer, Association of Graduates.—Branham, Charles N.,  
 O14920, Col., CAC

(4) *Operating agencies.*

Commandant of Cadets.—Higgins, Gerald J., O19530, Brig. Gen., USA  
 C. O. 1802d Sp. Regt.—Sink, Robert F., O16907, Col., Inf  
 C. O., Stewart Field.—Webster, Benjamin J., O18714, Col., AC  
 Graduate Manager of Athletics.—Jones, Lawrence McC., O8578, Col.,  
 FA-Ret

#### **4. Professors, Departments of Instruction**

Dean of the Academic Board:

Alexander, Roger G., O1497, Brig. Gen., USA

Department of Economics, Government, and History:

Professor.—Beukema, Herman, O3790, Col

Department of Electricity:

Professor.—Bartlett, Boyd W., O27891, Col

Department of English:

Professor.—Stephens, George R., O27892, Lt. Col

Department of Law:

Professor.—West, Charles W., O12774, Col

Department of Mathematics:

Professor.—Jones, Harris, O5222, Col

Department of Mechanics:

Professor.—Gatchell, Oscar J., O3357, Col

Department of Military Art and Engineering:

Professor.—Stamps, Thomas D., O8560, Col., Head of Department

Professor.—Esposito, Vincent J., O16053, Col

Department of Military Topography and Graphics:

Professor.—Schick, Lawrence E., O12736, Col

Department of Modern Languages:

Professor.—Morrison, William E., O2237, Col

Department of Ordnance:

Professor.—Leonard, Lawrence C., O14906, Col

Department of Physics and Chemistry:

Professor.—Counts, Gerald A., O8556, Col., Head of Department  
Professor.—Gillette, Edward G., Jr., O1297, Col

Department of Tactics:

Commandant of Cadets.—Higgins, Gerald J., O19530, Brig. Gen.,  
USA

Assistant Commandant.—Harkins, Paul D., O17625, Col., Cav

Associate professors, assistant professors, and instructors are detailed in the various Departments in proportion to the number of students undergoing instruction.

## 5. Composition of the Corps of Cadets

*a. United States and Territories.*—Under an act of Congress approved 3 June 1942, the Corps of Cadets shall consist of 2,496<sup>9</sup> cadets, appointed in number and from sources as follows:

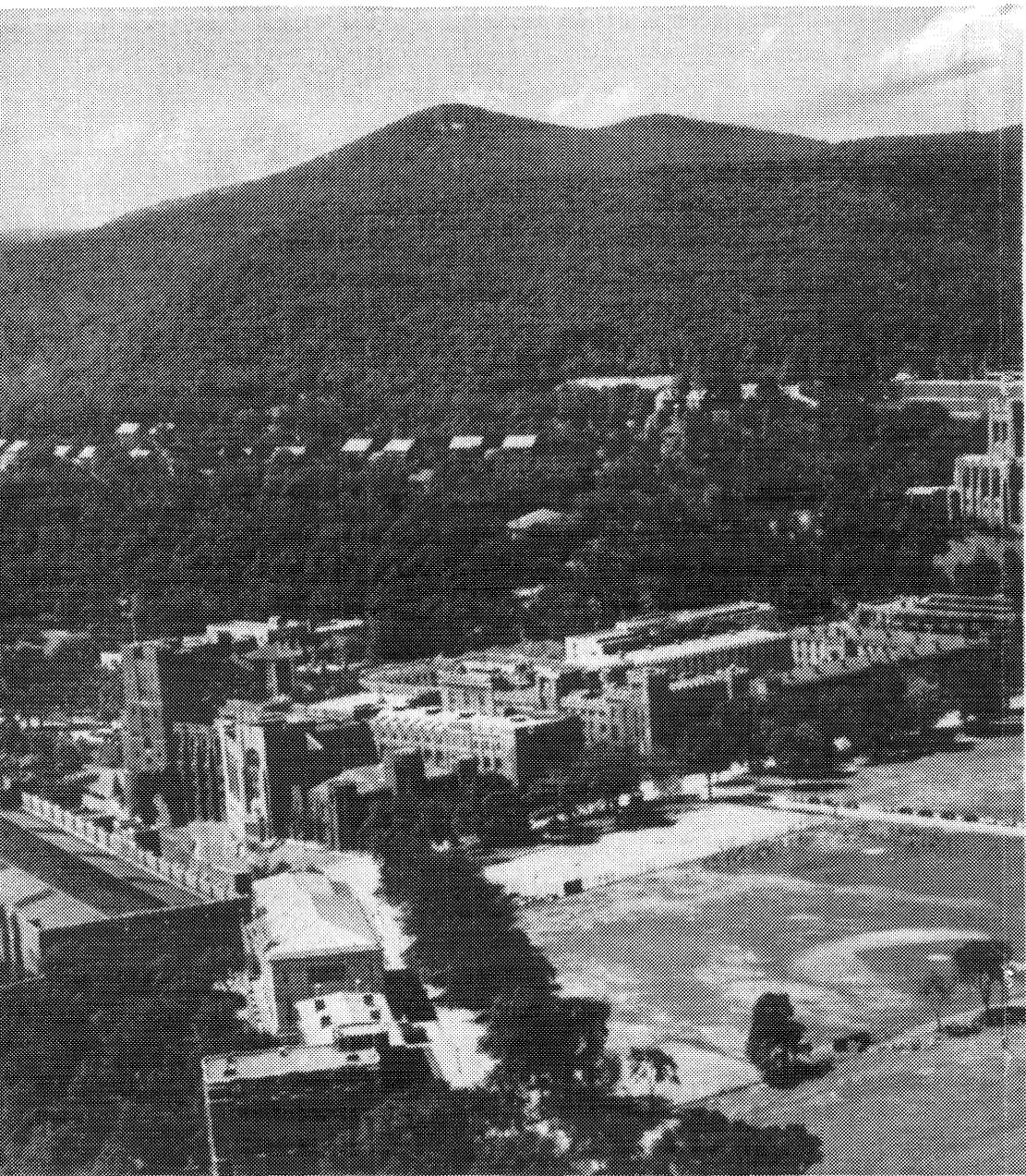
8 from each State at large.....	384
4 from each congressional district.....	1,740
4 from each Territory (Hawaii and Alaska).....	8
6 from the District of Columbia.....	6
4 from natives of Puerto Rico.....	4
2 from Panama Canal Zone.....	2
172 from the United States at large <sup>10</sup> .....	172
180 from among the enlisted men of the Regular Army and of the National Guard, in number as nearly equal as practicable.....	180
Total.....	2,496

Section 2 of the above-mentioned act is quoted in paragraph 3i, sec. II.

*b. Filipino cadets.*—In addition to the 2,496 designated above, the Secretary of the Army is authorized to permit not exceeding four Filipinos (one for each entering class), to be designated by the President of the Republic of the Philippines, to receive instruction at the United States Military Academy, under the provision of the act of Congress approved 28 May 1908, as amended. These students execute an agreement to comply with all regulations for the police and discipline of the Academy, to be studious, and to give their utmost efforts to complete satisfactorily the courses in the various departments of instruction.

<sup>9</sup> In addition to the 2,496 designated above, Public Law 228, 79th Cong., approved 24 November 1945, provides that the strength of the Corps of Cadets is “\* \* \* increased by such number as may be appointed by the President from the United States at large from among the sons of persons who have been or shall hereafter be awarded a Medal of Honor in the name of Congress for acts performed while in any of the armed forces of the United States \* \* \*”

<sup>10</sup> Of whom 3 are appointed upon the recommendation of the Vice President, 40 are selected from among the honor graduates of those educational institutions designated as “honor military schools,” 40 are chosen from among the sons of veterans who were killed in action or have died, or may hereafter die, of wounds received or disease contracted in line of duty during World War I or World War II, and 89 upon the personal selection of the President (see par. 3, sec. II).



*Air View—Academic Area*

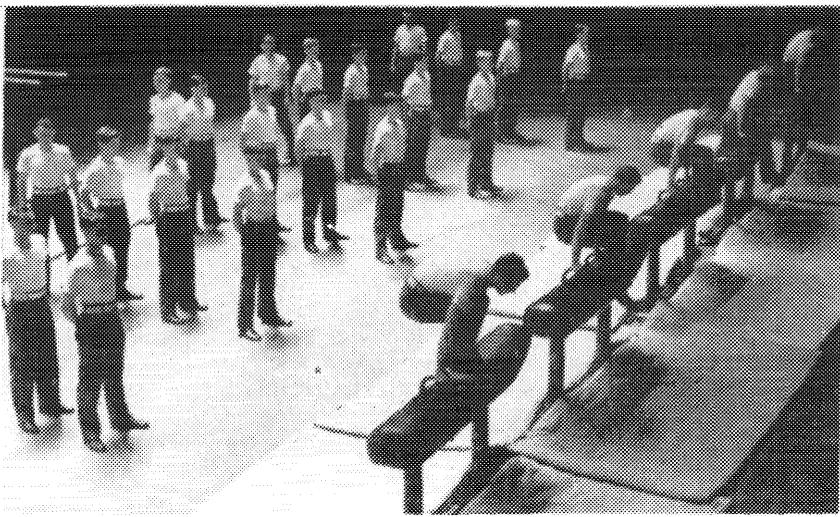


*c. Foreign cadets.*—The act of 24 June 1938, as amended by the act of 26 June 1946, authorizes the President of the United States to permit not exceeding 20 persons at a time from the Latin American Republics to receive instruction at the United States Military Academy. Not more than three persons from any one of such republics may receive instruction under authority of that law at the same time. Such persons receive the same pay, allowances and emoluments, including mileage from their homes in proceeding to the Military Academy for initial admission, as cadets appointed from the United States.

Citizens of other foreign countries have been permitted from time to time to attend the Military Academy upon specific authorization of the United States Congress in each case but are not entitled by reason of their graduation therefrom to appointment to any office or position in the United States Army. Applications of foreigners must be submitted to the United States Government through diplomatic channels by the foreign governments concerned and if favorably considered the matter is then presented to the Congress for appropriate action. Requirements for the admission, advancement and graduation of foreign cadets are identical with those for United States cadets. In addition, foreign cadets must be provided with the same amount of funds provided by the United States Government for United States cadets, and not more, nor less, than that amount. The pay and allowances for a cadet are \$936 per year plus one ration per day (which varies with the cost of food), to commence the day he enters the Military Academy. A deposit of \$300 upon admission is also required.

## SECTION IV—PROGRAM OF INSTRUCTION AND COURSE OF STUDIES

	Page
1. General.....	42
<i>a.</i> Courses of instruction.....	42
<i>b.</i> Academic terms.....	42
<i>c.</i> Term examinations.....	42
<i>d.</i> Disposition of cadets found deficient in academic work or conduct.....	42
<i>e.</i> Summer Period.....	43
2. Program of Instruction for Academic year.....	43
3. Schedule of Instruction.....	44
4. Departments of Instruction.....	50
<i>a.</i> Mathematics.....	50
<i>b.</i> Modern languages.....	50
<i>c.</i> English.....	50
<i>d.</i> Military topography and graphics.....	50
<i>e.</i> Physics and chemistry.....	50
<i>f.</i> Mechanics.....	51
<i>g.</i> Electricity.....	51
<i>h.</i> Military hygiene.....	51
<i>i.</i> Law.....	51
<i>j.</i> Social sciences.....	51
<i>k.</i> Ordnance.....	51
<i>l.</i> Military art and engineering.....	52
<i>m.</i> Tactics.....	52
5. Periodic Physical Examination.....	54
6. Degree.....	54
7. Academic Prizes and Special Awards for Military Proficiency.....	56
8. Special Athletic Awards.....	57
9. Annual Report of Distinguished Cadets.....	57
10. Promotion after Graduation.....	57
11. Furloughs, Leaves of Absence, and Suspension of Academic and Military Duties.....	58
12. The Library.....	58
13. The Museum.....	59



## PROGRAM OF INSTRUCTION AND COURSE OF STUDIES

### 1. General

*a. Courses of instruction.*—Courses include academic instruction and military training covering a period of 4 years, and of such scope and content as is determined by the Department of the Army upon the recommendation of the Superintendent. In general, courses of instruction and training are designed to develop character and the personal attributes essential to an officer, to provide a balanced and liberal education in the arts and sciences, and to provide a broad basic military education rather than that individual proficiency in the technical duties of junior officers of the various arms which is of necessity a gradual development, the responsibility for which devolves upon the graduates themselves and upon the commands and schools to which they are assigned after being commissioned.

*b. Academic terms.*—Two terms of academic instruction are provided, the Tuesday after Labor Day to 20 December, and 2 January to 3 June.

*c. Term examinations.*—A semiannual examination is held at the end of the first term, and an annual examination at the end of the second term. At the first term examination, cadets who are found to be proficient in subjects they have completed during the preceding term are arranged according to merit in each subject. At the second term examination they are similarly arranged, and they are also assigned general standing in the class as determined by their standings in the various subjects. When a subject of study is completed during a term, an examination concluding the work in that subject may be held.

*d. Disposition of cadets found deficient in academic work or conduct.*—Cadets deficient in studies, including Physical Education, at any exami-

nation are discharged from the Academy unless for special reasons the Academic Board recommends otherwise. Cadets exceeding at any time the maximum number of demerits allowed for 6 months are reported to the Academic Board as deficient in conduct.

*e. Summer period.*—The summer months of June, July and August are utilized for practical military instruction and class furloughs (see paragraph 11 below).

## 2. Program of Instruction for Academic Year.

Class	Subject	Attendance	Length of period (minutes)
Fourth (first year)	Mathematics	Whole class daily	80
	Military topography and graphics.	One-half class daily except Sat	120
	Physical education	One-half class daily except Sat	45
Third (second year)	English	Whole class Saturday	60
	Languages	One-half class daily except Sat	60
	Mathematics	One-half class daily	80
	Physics	Whole class daily (33 periods)	80
		One-half class daily (90 periods)	80
	Chemistry	One-half class daily (90 periods)	80
	Languages	One-half class daily	70
	English	One-half class daily except Saturday (63 periods)	60
	Tactics	One-half class daily except Saturday (28 periods).	60 or 120
Second (third year)	Military topography and graphics.	One half class daily except Sat	120
	Mechanics	Whole class daily	80
	Electricity	Whole class daily (128 periods)	80
		One-half class daily (42 periods)	80
	Military instructor training.	One-half class daily (24 periods)	80
	Military correspondence	One-half class daily (4 periods)	80
	Physical Education	One-half class daily (15 periods)	80
	Social sciences (History and Government).	Whole class daily except Saturday	60
First (fourth year)	Military art and engineering.	Whole class daily	80
	Social sciences (Economics).	One-half class daily	70
	Ordnance	One-half class daily (88 periods)	70
	Military hygiene	One-half class daily (18 periods)	60
	Law	One-half class daily except Sat	60
	Psychology of Military Leadership.	One-half class daily except Sat	60
After 3 p. m. (all classes)	Tactics	Two attendances a week	60
	Physical Education	Two attendances a week	60

Detailed descriptions of the work in each department appear in paragraphs 3 and 4. The average numbers of periods available for the courses prescribed in table are as follows:

	1st class	2d, 3d, and 4th classes
Whole class daily	212	213
Half class daily	106	106
Half class daily (except Saturday)	90	91
Two attendances a week	72	72

### 3. Schedule of Instruction.

#### FOURTH CLASS

Department	Subject	Number of recitation or lecture periods	Length of recitation or lecture periods	Number of laboratory or practical work periods	Length of laboratory or practical work periods	Total number of periods	Total number of hours
	<i>Between 7:55 a. m. and 3 p. m. (Academic Day)</i>						
Mathematics	Algebra	57	1 $\frac{1}{3}$			57	76
	Solid geometry	30	1 $\frac{1}{3}$			30	40
	Plane and spherical trigonometry.	45	1 $\frac{1}{3}$			45	60
	Plane and solid analytic geometry.	72	1 $\frac{1}{3}$			72	96
	Slide rule	9	1 $\frac{1}{3}$			9	12
Military Topography and Graphics.	Military topography	13	1 $\frac{1}{3}$	38	2	51	93
	Graphics			40	2	40	80
Tactics	Physical Education I			122	$\frac{3}{4}$	122	92
English	Grammar	29	1			29	29
	Composition	29	1			29	29
	Readings	4	1			4	4
	Public speaking	29	1			29	29
Modern languages	Languages	91	1			91	91
	Subtotal	408		200		608	731
	<i>After 3 p. m.</i>						
Tactics	Practical military training (twice a week).			72	1	72	72
	Physical Education I (twice a week).			36	1	36	36
	Parades (twice a week in September and May).			16	1	16	16
	Reviews and inspections			45	1	45	45
	Subtotal			169		169	169
	Total	408		369		777	900

THIRD CLASS

Department	Subject	Number of recitation or lecture periods	Length of recitation or lecture periods	Number of laboratory or practical work periods	Length of laboratory or practical work periods	Total number of periods	Total number of hours
	<i>Between 7:55 a. m. and 3 p. m. (Academic Day)</i>						
Mathematics	Differential calculus	40	1 1/3			40	53
	Integral calculus	66	1 1/3			66	88
	NOTE.—Upper sections have 16 periods of Statistics instead of reviews in calculus.						
Physics and Chemistry.	Physics	105	1 1/3	18	2	123	176
	Chemistry	70	1 1/3	20	2	90	133
Modern Languages.	Languages	106	1 1/3			106	124
	Military topography and graphics.			50	2	50	100
English	Graphics			41	2	41	82
	Advanced Composition	18	1			18	18
Tactics	Literature	30	1			30	30
	Public speaking	15	1			15	15
	Tactics and technique			28	2	28	56
	Subtotal	450		157		607	875
	<i>After 3 p. m.</i>						
Tactics	Practical military training (twice a week).			72	1	72	72
	Physical Education II.			36	1	36	36
	Parades (twice a week in September and May).			16	1	16	16
	Reviews and inspections (once a week).			45	1	45	45
	Subtotal			169		169	169
	Total	450		326		776	1,044

SECOND CLASS

Department	Subject	Number of recitation or lecture periods	Length of recitation or lecture periods	Number of laboratory or practical work periods	Length of laboratory or practical work periods	Total number of periods	Total number of hours
	<i>Between 7:55 a. m. and 3 p. m. (Academic Day)</i>						
Mechanics	Analytical Mechanics	72	1 1/3			72	96
	Strength of Materials	39	1 1/3			39	52
	Thermodynamics	33	1 1/3	15	2	48	74
	Fluid Mechanics	45	1 1/3	9	2	54	78
Electricity	Electricity, Electronics, and Communication.	30	1 1/3	40	2	170	253
Tactics	Physical Education III	15	1 1/3			15	20
English	Military instructive training.	24	1 1/3			24	32
	Military correspondence.	4	1 1/3			4	5
Social sciences	History of modern Europe.	82	1			82	82
	History of Far East	25	1			25	25
	Government	40	1			40	40
	Geography	35	1			35	35
	Subtotal	544		64		608	792
	<i>After 3 p. m.</i>						
Tactics	Practical Military Training (twice a week).			72	1	72	72
	Physical Education III			36	1	36	36
	Parades (twice a week in September and May).			16	1	16	16
	Reviews and inspections (once a week).			45	1	45	45
	Subtotal			169		169	169
	Total	544		233		777	961

FIRST CLASS

Department	Subject	Number of recitation or lecture periods	Length of recitation or lecture periods	Number of laboratory or practical work periods	Length of laboratory or practical work periods	Total number of periods	Total number of hours
	<i>Between 7:55 a. m. and 3 p. m. (Academic Day)</i>						
Military Art and Engineering.	Military art.....	106	1 $\frac{1}{3}$			106	141
	Military engineering.....	103	1 $\frac{1}{3}$	3	2	106	143
Social sciences.....	Economics.....	54	1 $\frac{1}{6}$			54	63
	Economics of war.....	20	1 $\frac{1}{6}$			20	23
	International relations.....	32	1 $\frac{1}{6}$			32	37
Ordnance.....	Elements of Ordnance.....	70	1 $\frac{1}{6}$			70	82
	Machine tool laboratory.....			18	2	18	36
Military hygiene.....	Military hygiene.....	18	1			18	18
Law.....	Elementary law.....	21	1			21	21
	Constitutional law.....	13	1			13	13
	Criminal law.....	19	1			19	19
	Evidence.....	17	1			17	17
	Military law.....	20	1			20	20
Tactics.....	Psychology of Military Leadership.....			90	2	90	180
	Subtotal.....	493		111		604	813
	<i>After 3 p. m.</i>						
Tactics.....	Practical military training (twice a week). Physical Education IV.....			72	1	72	72
	Parades (twice a week in September and May). Review and inspections (once a week). Subtotal.....			42 16 45	1 1 1	42 16 45	42 16 45
	Total.....	493		286		779	988

#### 4. Departments of Instruction

*a. Mathematics.*—The course includes the subjects of college algebra, the slide rule, plane and spherical trigonometry, plane and solid analytic geometry, differential and integral calculus, and the elements of statistics.

*b. Modern languages.*—Each cadet studies one foreign language, French, Spanish, Portuguese, Russian, or German. The selection is made according to his own choice as far as quotas will permit after assignment has been made to the maximum extent possible to languages previously studied elsewhere. When the language of his first choice is oversubscribed, he is given his second or sometimes even his third choice.

The cadet follows a course in his selected language throughout his first 2 years. His program starts with a thorough study of pronunciation and grammar, accompanied by reading and numerous oral and written exercises and proceeds in the second year to grammar review, composition, idiomatic expression with emphasis on military vocabulary, intensive and extensive reading, dictation, aural comprehension exercises, free composition both oral and written, conversation and lectures in the foreign language on the history and civilization of its country.

*c. English.*—Instruction in this department comprises three courses: one given to the Fourth Class, one to the Third Class, and one to the Second Class. The Fourth Class course includes the study of the fundamentals of grammar, punctuation, diction, sentence structure, expository writing, public speaking, and readings from English and American literature. The Third Class course includes advanced expository composition, a study of English literature from the Age of Chaucer to the present, and readings in American literature. The Second Class course includes the methods and technique of military instructor training and a series of lessons in military correspondence.

*d. Military topography and graphics.*—The course in military topography includes surveying, military sketching, terrain appreciation, the principles and methods of map construction, map and aerial photograph reading, stereoscopy, and military applications.

The course in graphics includes the use of drawing instruments, lettering, projections, pictorial representation, technical sketching, blueprint reading, charts and graphs, and working drawings, detail and assembly for machines, and simple structures.

*e. Physics and chemistry.*—(1) *Physics.*—This department conducts an introductory course in general physics, covering the subjects of elementary mechanics, properties of matter, wave-motion, sound, heat, electricity and magnetism, light, and modern physics.

(2) *Chemistry.*—The course in chemistry, given to all Third Classmen, is an introduction to the principles of general inorganic chemistry. The scope and difficulty of the course is that covered by a standard college text such as General College Chemistry by Richardson and Scarlett.

*f. Mechanics.*—The course includes analytical mechanics (statics, kinematics, and kinetics), strength of materials, engineering thermodynamics, and fluid mechanics. Standard college textbooks are used. Emphasis is placed on the development and practical illustration of fundamental principles rather than on specialization in preparation for any particular field of engineering.

*g. Electricity.*—The course in electricity, given to all Second Classmen, consists of an introduction to the principles of electrical engineering, followed by an introductory course in electronics and communications. Of the 170 periods allotted to the study of electricity, 110 are devoted to basic electrical engineering principles, electric circuit theory, and rotating machinery. The remaining 60 periods are devoted to electronics and the applications of electron tubes to the communications art. Forty of the one hundred and seventy periods are allotted to 2-hour laboratory exercises, 24 in basic circuit theory and machinery, and 16 in electronics.

*h. Military hygiene.*—The scope of this course embodies the responsibilities for sanitation as they affect commanding officers and the technical services; the principles of preventive medicine and their application; the principles of sanitation and their application, acclimatization, march hygiene and camp sites, and personal hygiene, from the aspect of the company officer; the nature of alcoholic drinks and narcotics and their effects upon the human system; and the physiology of military aviation.

*i. Law.*—The course of instruction comprises the study of elementary law, constitutional law, criminal law, evidence, and military law.

*j. Social sciences.*—First Class courses consist of a survey of the principles and problems of elementary economics, along with their application to the problems of war; and an introduction to the study of international relations. Second Class courses are as follows: Political and economic geography, surveys of the history of modern Europe and of the Far East, Government of the United States, contemporary foreign governments, and military government.

*k. Ordnance.*—The purpose of the course of instruction conducted by this department is to give the cadets a basic knowledge of the principles involved in the design, production, and functioning of weapons, ammunition, and automotive vehicles. This basic knowledge is meant to serve as a foundation upon which more detailed and specialized knowledge may be built when necessity or opportunity arises. It also furnishes an understanding of the importance of proper maintenance and intelligent employment of ordnance equipment. In this course the cadet sees the practical application of many of the principles studied in physics, chemistry, electricity, and mechanics. The powers and limitations of weapons and ammunition are studied, but emphasis is placed on typical mechanisms rather than minute details of construction and operation. Interior, exterior, and terminal ballistics are included in the course.

*l. Military art and engineering.*—This department conducts two courses: military history and military engineering.

The course in military history is a survey course in which the cadet is made acquainted with the most important fields of military history: great captains before Napoleon, campaigns of Napoleon, American Civil War, World War I, and World War II. Throughout the course, instruction is given in the principles of strategy.

The course in military engineering consists of two subcourses: (1) structures and (2) Army engineering.

The subcourse in structures deals with the analysis and design of simple steel and wood structures, with emphasis on bridges. The upper sections also study simple indeterminate structures.

The subcourse in Army engineering includes instruction in military bridges, military roads, demolitions, land mines, field fortifications, and camouflage.

*m. Tactics.*—(1) *General military instruction.*—(a) *Objectives.*—The objectives of the Department of Tactics include not only the routine administration and discipline of the Corps of Cadets but also the conduct of the requisite basic military training to provide a balanced military and physical education for the potential Regular Army officer. The guiding principle in the selection of courses is that they shall furnish training in matters which should be of value to the progressive continued development of all officers. Overemphasis upon specialties is avoided, both because of lack of instructional time and because specialized training is a function of unit training and of the various service and staff schools conducted by the Department of the Army for the progressive military education of commissioned officers.

(b) *Methods used to attain objectives.*

1. The Department accomplishes the first of its objectives by exercising continuous and strict supervision over the daily life of the cadet and by demanding prompt, precise, and thorough performance of all duties. This portion of the training is essentially one of character development and is designed to inculcate the traditional soldierly attributes.
2. The purely military portion of the cadet's training includes instruction currently pertinent to the separate and combined arms. Subcourses are given in organization, unit administration and mess management, staff functioning, psychology of military leadership, weapons and matériel, and tactics and technique.
3. A progressive course of physical training is conducted by the Department of Tactics, under the direction of the Director of Physical Education. This course is designed to equip cadets with as high a degree of physical and mental adjustment suitable to a military career as can be obtained from

a physical training program. Basic physical skills, coordination, and condition (fitness) are developed in the fourth class year, followed in later years by progressive instruction in military skills and sports of carry-over value in the professional life. An understanding and appreciation of the value of physical training for the Army and training in leadership are stressed through instructor assignments in the first class year. Training in posture as well as in voice and command are the functions of this section. Throughout the 4 years, a highly developed intramural program of rugged body-contact sports indoctrinates cadets with aggressiveness and ability to perform under stress. Relative proficiency in each class is determined by a thorough system of objective method testing and grading.

4. Weight toward graduation standing, similar to that given the various academic subjects, is assigned to the following headings under which each cadet is rated by the Department of Tactics: tactics, conduct, military physical efficiency and aptitude for the service.

(2) *Leadership training*.—In addition to the informal instruction in leadership conducted continuously by each Company Tactical Officer, the Department of Military Psychology and Leadership, a subdepartment of the Department of Tactics, conducts, throughout the 4 years, a formal progressive course in the psychology of military leadership. This course, which culminates in a full year of classroom recitations in the first class year, provides a basic knowledge and understanding of human nature designed to assist the graduate in most effectively leading the American citizen soldier.

(3) *Aptitude for the Service*.—Periodically during their 4-year course at West Point, cadets are rated and graded in aptitude for the military service. This rating is accomplished by having aptitude ratings submitted for each cadet by other cadets and by officers who have had the best opportunities to observe the cadet in the performance of his duties. High ranking in aptitude for the service is used as a basis in the selection of cadet officers and noncommissioned officers. Cadets found deficient in aptitude are subject to discharge from the Military Academy.

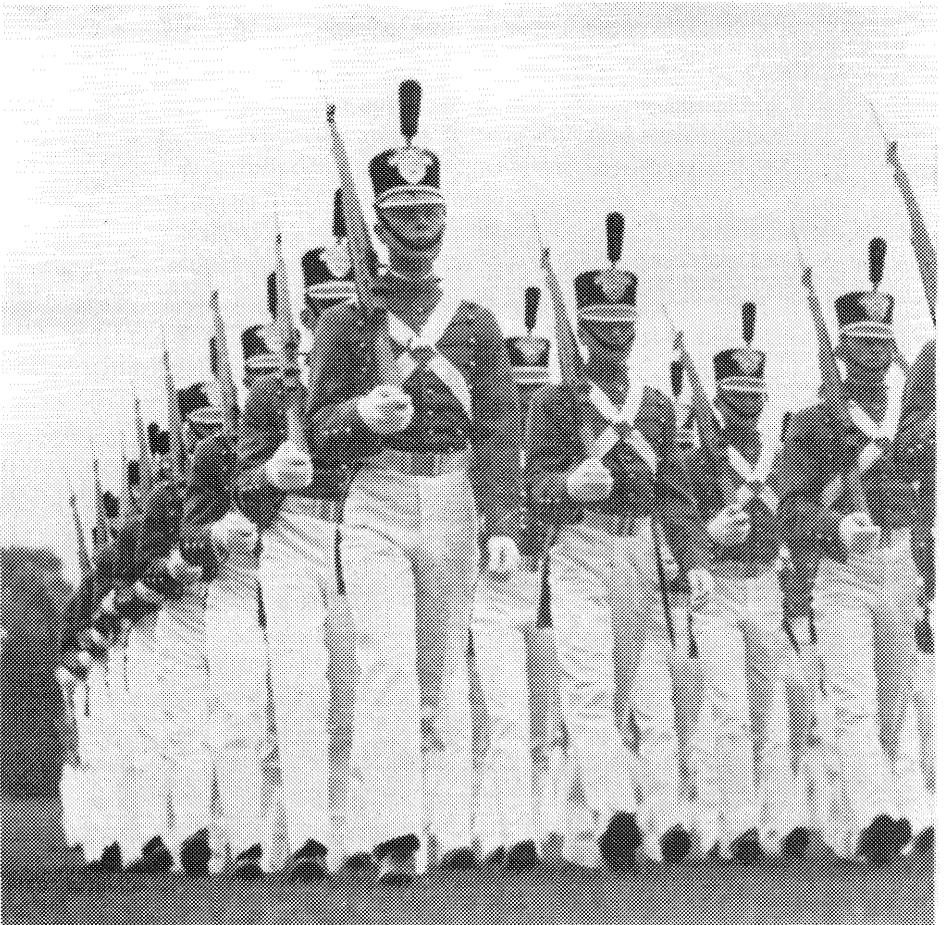
(4) *Conduct*.—During their 4 years at West Point cadets are required to comply with certain specific regulations and customs which are an integral part of a cadet's life. If the cadet fails at any time to comply with these regulations or does not maintain himself and his equipment at the standard set by the authorities, he is awarded demerits for his derelictions. Cadets are given a certain allowance of demerits for each 6-month period. A cadet who exceeds this allowance may be discharged from the Military Academy for deficiency in conduct.

## 5. Periodic Physical Examination

Periodic physical examinations are conducted by the Surgeon, United States Military Academy. Cadets found to be permanently disqualified physically are discharged.

## 6. Degree

The degree of bachelor of science is conferred at the time of graduation under the provisions of an act of Congress approved 25 May 1933, as amended by the act of Congress approved 8 July 1937, which provides: "that the superintendents of the United States Naval Academy, the United States Military Academy, and the United States Coast Guard



Academy may, under such rules and regulations as the Secretary of the Navy, the Secretary of War, and the Secretary of the Treasury may prescribe, confer the degree of bachelor of science upon all graduates of their respective academies, from and after the date of the accrediting of said academies by the Association of American Universities: *Provided*, That on and after the date of the accrediting of the said academies by the Association of American Universities the superintendents of the respective academies may, under such rules and regulations as the respective secretaries may make, confer the degree of bachelor of science upon such other living graduates of the said academies as shall have met the requirements of the respective academies for such degree."

The United States Military Academy was accredited by the Association of American Universities on 31 October 1925.



## **7. Academic Prizes and Special Awards for Military Proficiency**

Awards are annually made by patriotic societies and certain individuals to cadets of the graduating class for outstanding academic performance and for military proficiency, as follows:

*a.* By the Sons of the Revolution in the State of New York, the cup, on which is inscribed each year the name of the cadet having the highest rating in military efficiency. Cup presented in 1910.

*b.* By Mrs. Francis Vinton Greene, as a memorial to the late Maj. Gen. Francis Vinton Greene, Class of 1870, U. S. M. A., to the cadet standing No. 1 in general order of merit at graduation. First presented in 1929.

*c.* By Gen. Charles G. Dawes, the Pershing sword, to commemorate the fact that General Pershing was first captain of the Corps of Cadets in 1886. Awarded to the graduating cadet captain and brigade commander. First presented in 1929.

*d.* By the National Commandery, Military Order of Foreign Wars of the United States, to the cadet standing highest in economics. First presented in 1929.

*e.* By the National Society, Daughters of the American Revolution, to the cadet standing highest in mechanics. First presented in 1930.

*f.* By the United Daughters of the Confederacy, to the cadet standing highest in mathematics. First presented in 1931.

*g.* By the Women's Relief Corps, Auxiliary to the Grand Army of the Republic, to the cadet standing highest in military topography and graphics. First presented in 1932.

*h.* By the Colonial Daughters of the Seventeenth Century, to the cadet standing highest in English. First presented in 1934.

*i.* By the national organization of the American Legion, to the cadet standing highest in chemistry and electricity. First presented in 1935.

*j.* By the Veterans of Foreign Wars of the United States, to the cadet standing highest in physics. First presented in 1937.

*k.* By the Ladies Auxiliary to the Veterans of Foreign Wars of the United States, to the cadet standing highest in ordnance. First presented in 1939.

*l.* By the American Bar Association, to the cadet standing highest in law. First presented in 1941.

*m.* By the National Society, Daughters of Founders and Patriots of America, to the cadet standing highest in military hygiene. First presented in 1942.

*n.* By Mrs. William A. Mitchell, as a memorial to the late Brig. Gen. William A. Mitchell, to the cadet standing highest in military engineering and military history. First presented in 1942.

*o.* By the Military Order of the World War, to the cadet who has made the greatest improvement during his course. First presented in 1942.

*p.* By the Regular Veterans Association, to the cadet standing No. 1 in graduation merit. First presented in January 1943.

*q.* By Col. and Mrs. Charles R. Finley, in memory of their son, Lt. Charles R. Finley, Jr., for the battalion adjutant, First Battalion, Second Regiment. First presented in 1945.

*r.* By the Steuben Society of America, to the cadet standing highest in modern languages. First presented in 1936.

## **8. Special Athletic Awards**

The following special awards are annually presented to cadets and organizations whose performance has been outstanding:

*a.* The Army Athletic Association Trophy to the cadet of the first class who has rendered the most valuable service to athletics during his career as a cadet.

*b.* The Edgerton Trophy to the outgoing football captain.

*c.* The Hughes Trophy to the most valuable player on the football team.

*d.* The W. P. Fickes Memorial Trophy to the outgoing lacrosse captain.

*e.* The Treat Trophy for horsemanship and excellence in polo.

*f.* The Sands Fencing Trophy to the outstanding fencer.

*g.* The Frances Dorothy Beebe Trophy for excellence in foils.

*h.* The Heiberg Trophy for horsemanship.

*i.* Pierce Currier Foster Memorial Trophy to the best all-round gymnast.

*j.* Bankers' Trust Co. Trophy to the cadet company excelling in intramural athletics during the year.

*k.* The Gen. Palmer E. Pierce Trophy to the cadet company excelling in intramural football during the year.

## **9. Annual Report of Distinguished Cadets**

Annually in the month of June, the superintendent reports to the War Department, for publication in the Army Register, the names of distinguished cadets, including only those on the general merit roll of each class and on the graduating merit roll whose records meet the requirements fixed by the academic board. Not more than 6 percent of each roll are so included.

Cadets who at any annual examination are classed as distinguished wear a five-pointed star, three-fourths of an inch in diameter, on each side of the collar of the dress coat and the full dress coat. This mark of academic distinction is effective for 1 year after the announcement of the award.

## **10. Promotion After Graduation**

When any cadet of the United States Military Academy (other than foreign cadets) has completed the prescribed course of instruction, he may upon graduation be promoted and appointed a second lieutenant in the Regular Army or United States Air Force, and whenever any such appointment would result in there being a number of active list commissioned

officers in the Regular Army or in the United States Air Force in excess of the authorized active list commissioned officer strength, such strength shall be temporarily increased as necessary to authorize such appointment (Sec. 506 (f), Public Law 381, 80th Congress.)

*Revocation of commission.*—Under the provisions of the act of Congress approved 25 July 1939 (53 Stat. 1074; 10 U. S. C. 484a), authorizing revocation by the Secretary of War of the commission of an officer on the active list, initially commissioned after 25 July 1939, who has had less than 3 years of continuous service as a commissioned officer of the Army at the date of revocation, it is prescribed that: “*a.* In the case of officers serving under revocable commissions \* \* \* the Secretary of War may revoke the commission of any officer whose conduct or performance of duty is such as not to justify his retention as an officer of the Army, or whose retention as an officer of the Army is not justified for other good and sufficient reasons appearing to the satisfaction of the Secretary of War. The action of the Secretary of War is final and conclusive. \* \* \* *d.* An officer whose commission is revoked under this authority will be entitled only to accrued pay and allowances upon discharge. \* \* \* *f.* These regulations become effective as to all officers originally commissioned in the Regular Army after July 25, 1939.”

## **11. Furloughs, Leaves of Absence, and Suspension of Academic and Military Duties**

Academic duties are suspended during the months of June, July, and August. Although the summer period is primarily devoted to practical military instruction, class furloughs are given during this period as follows: First Class, 3 weeks; Second Class, 4 weeks; Third Class, 4 weeks. Academic duties are suspended for a period of approximately 10 days at the close of the fall term (over the Christmas holiday period). At this time cadets of the First, Second, and Third Classes who are not undergoing final examinations, and whose disciplinary records and credit balance with the Treasurer, United States Military Academy, warrant it, are granted a short leave of absence.

Cadets of the First Class are granted not to exceed nine week-end leaves during the year, subject to the requirements that such leave does not interfere with duty, and that the individual cadet's academic and disciplinary records and credit balances warrant the leave.

Academic and other duties are suspended for all classes on such national holidays as may be designated by the Department of the Army.

## **12. The Library**

Cadets and officers have free access to the library, which comprises approximately 123,000 volumes, with an extensive collection of maps, manuscripts, and rare books. The collection contains substantially all

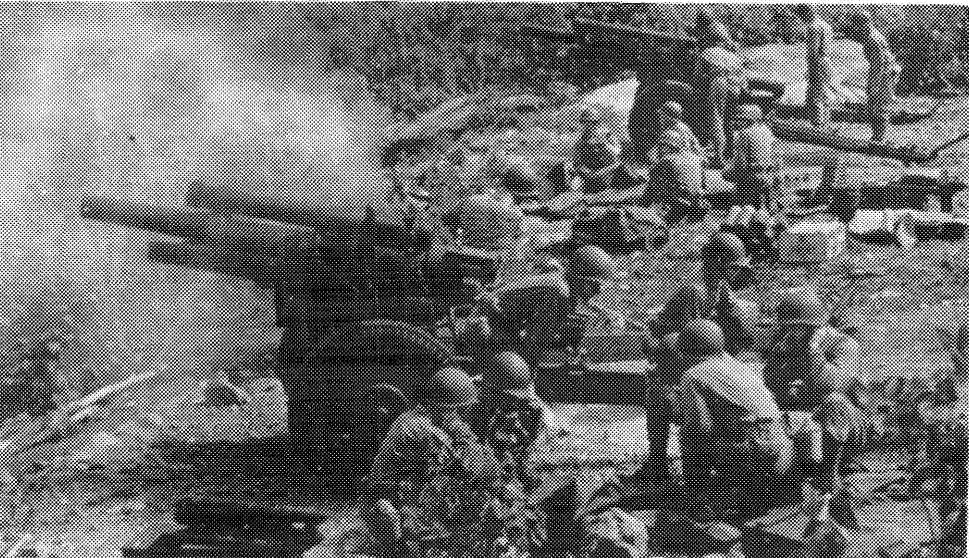
standard books on the subjects taught in the Military Academy, and is especially complete in military subjects. Its card catalogs (about 400,000 cards) are arranged with the special object of saving the time of cadets. The library is open on weekdays from 8:30 a. m. to 6 p. m.; Sundays and holidays from 2 p. m. to 6 p. m.; and on evenings when required for cadets' special research work.

### **13. The Museum**

The United States Military Academy Museum houses a fine collection of weapons and ammunition, both ancient and modern, as well as many other items of historical value pertaining to the Academy and to the Army. It is open daily to visitors from 10:30 a. m. to 4:30 p. m. except on Sunday, Monday, and holidays.

## SECTION V—GENERAL AND MISCELLANEOUS

	Page
1. Pay and Allowances of Cadets .....	61
2. Uniforms and Supplies .....	61
3. Extracurricular Activities .....	61
<i>a.</i> Social .....	61
<i>b.</i> Cultural activities and entertainment .....	62
4. Intercollegiate Athletics .....	62
5. Authorized Religious Activities .....	63
6. USMA Association of Graduates .....	63



## GENERAL AND MISCELLANEOUS

### 1. Pay and Allowances of Cadets

The pay of the cadet is \$936 per annum plus the cost of one ration per day. The latter item varies with the cost of food. The total of such pay and allowances, when added to the new cadet's initial deposit, is sufficient to meet the cadet's actual needs at the Academy.

Except for members of the armed forces who are provided Government transportation or allowed mileage in accordance with Army Regulations, mileage at 5 cents per mile, for traveling expenses from their homes is credited to the account of cadets after their admission to the Academy.

Obtaining money from outside sources is regarded with disfavor, unless it be for purposes specifically authorized in the Budget of a Cadet's Pay or in Regulations, United States Cadet Corps.

### 2. Uniforms and Supplies

Cadets are required to wear the prescribed uniform. All articles of their uniform and equipment, including bedding, shoes, and underwear, are of a designated pattern, and are sold to cadets at West Point at regulated prices. It is not necessary for candidates to make special preparation for their stay at the academy, although there is no objection to their bringing with them such supplies of handkerchiefs and toilet accessories as they may have. Should a trunk be brought, it should be of the Army trunk locker type, 29 $\frac{3}{4}$  by 16 by 12 inches in size, and in good condition. If a candidate does not have such a trunk, he should wait until his arrival at the academy to procure one. Everything needed can be secured from the cadet store at West Point.

### 3. Extracurricular Activities

*a. Social.*—The social life of the cadets is regarded as an essential factor in their preparation for a military career. Week ends and other free time afford ample opportunity for the social diversions which make a distinct and welcome break from the routine of classes and drills. Formal hops, informal tea dances, and similar gatherings are organized and supervised by the class hop committees. Moving pictures, concerts, and plays—both professional and amateur—add variety to cadet entertainment.

Formal hops are scheduled every Saturday throughout the academic year. Special hops highlight certain milestones in the cadet career, among them: the Ring Hop, when the First Classmen receive their rings; the Hundredth Night Hop, given approximately 100 days before June; the Howitzer Hop, when the annual year book of the First Class is dis-

tributed; and Graduation Hop. Informal week-end hops at Camp Buckner are a feature of the summer program. Picnics, moving pictures, and other informal entertainments, given when permitted by the demands of the various programs of practical military training, round out the social activities.

The cadet hostess exercises general supervision over the social life of the cadets. Her office and lounge in Grant Hall and the cadet reception room in the same building provide a homelike atmosphere, in sharp contrast with the austerity of cadet barracks. There cadets meet and entertain their friends.

*b. Cultural activities and entertainment.*—Week ends and other special occasions provide the opportunity for a wide variety of cultural activities and entertainment, presented under the direction or sponsorship of the agencies listed below:

*Special Program Committee.*—Lectures, concerts, and special features.

*Special Services Office.*—Plays and moving pictures.

*The Chapel Organist.*—Organ recitals.

*The Teacher of Music.*—Band and orchestral concerts.

In addition to the above, some thirty-five cadet clubs, committees, and boards sponsor extracurricular activities which serve as outlets for the varied talents and interests of the Corps of Cadets. Three cadet publications, The Howitzer, The Pointer, and Bugle Notes offer such opportunities to men interested in writing. The Debating Society brings men of all four classes into intercollegiate competition. The Dance Orchestra, the Concert Orchestra, the Glee Club, and the Chapel Choirs give opportunity of expression to whatever musical talent is available. Men with a bent for public entertainment find their vehicles of self-expression in the Hundredth Night Show and the Color Lines, agencies sponsored by the Dialectic Society. The chess, camera, radio, and other hobbyists have their own clubs. Limited intercollegiate competition is sponsored by athletic clubs in the following sports: handball, polo, sailing, skeet, skiing, squash, water soccer, and weight lifting.

#### **4. Intercollegiate Athletics**

In addition to formal physical training and a well-rounded intramural program, the Military Academy maintains a very comprehensive intercollegiate program. Teams representing the Academy meet outside competition in the following sports: baseball, basketball, cross country, fencing, football, golf, gymnastics, hockey, lacrosse, pistol, rifle, soccer, swimming, tennis, track, and wrestling.

The Graduate Manager of Athletics arranges schedules for varsity, junior varsity, and plebe teams in these sports. It is estimated that each year approximately 1,000 different cadets compete in at least one sport in this program.

## **5. Authorized Religious Activities**

*a. Protestant.*—Protestant services of worship are held in the Cadet Chapel during the academic year, and out-of-doors during the months of summer training. Three services are held each Sunday in the Cadet Chapel, the last of these being a service of Holy Communion, at which attendance is voluntary. On the first two Sundays of the month, the early service is a service of the Holy Communion. Members of all Christian churches are welcomed to the Communion Table. The two regiments of cadets alternate in their attendance at the early service and the 11 o'clock service. During the summer months services are held at Camp Buckner and Battle Monument. Throughout the Lenten season, daily services are held in the Chaplain's office. All Protestant services are nondenominational in character, following a form approved by the larger Protestant communions. A cadet choir of 165 voices participates in the Cadet Chapel services.

*b. Catholic.*—The Catholic cadets fulfill their religious obligations by attending Mass at Holy Trinity Chapel on the Post. The Chapel is served by two priests in residence. Confessions are heard on Saturdays and as desired. The first and second regiments alternate in attending 8 and 9:15 a. m. Mass in order to facilitate frequent reception of Holy Communion. A cadet Catholic Choir is trained and renders music for High Masses and all other ceremonies. During Lent, October, and May daily Mass is celebrated at 7 a. m. and 5:30 p. m.

*c. Jewish.*—Jewish services are conducted each Sunday morning at 7:40 in the Old Cadet Chapel under the supervision of a Rabbi, the Acting Jewish Chaplain. Services are also conducted on the various Jewish holy days and festivals. There is a cadet choir and a cadet organist. The chaplain is at the Academy from Saturday noon until Sunday noon.

## **6. USMA Association of Graduates**

Graduate affairs, including arrangements for June Week reunions of graduated classes, are handled by the USMA Association of Graduates, with headquarters at West Point, N. Y.

## SECTION VI—DESCRIPTION OF ENTRANCE EXAMINATIONS

	Page
1. Mathematics .....	65
2. English .....	66
3. United States History .....	68
4. West Point Aptitude Test .....	69
5. Sample Answer Sheet and Key .....	71
6. Additional Causes for Physical Disqualification .....	73
7. Training Hints for Candidates .....	81



# REGULAR AND VALIDATING EXAMINATIONS

## 1. Mathematics

The entrance examination in mathematics consists of two parts, each one and one-half hours long. Regular candidates take the entire examination; validating candidates take only the first part. The general subject-matter coverage, including problems in algebra and plane geometry, will be the same in both parts. However, individual problems in the first part will require less time for solution than those in the second.

The following problems illustrate the difficulty and the subject-matter coverage of the examination. A sample answer sheet and a list of the correct answers for these questions follows the description of the West Point Aptitude Test.

### VALIDATING EXAMINATION AND PART I—REGULAR EXAMINATION

*Directions.*—In this examination, five possible answers are given immediately following each problem. The five answers are lettered A, B, C, D, and E. On the answer sheet you will find, for each problem, five pairs of lines lettered A to E. Solve each problem, using the blank space at the right of the page for scratch work. Then indicate on the answer sheet the one correct answer by making a heavy black mark between the lines under the letter corresponding to that answer.

*Note.*—Figures accompanying problems in geometry and trigonometry are not necessarily drawn to scale.

USE THIS SPACE FOR FIGURING

1. If  $p^n = x$ ,  $p^{-n} = (?)$

(A)  $-x$  (B)  $-\frac{x}{n}$  (C)  $\frac{1}{x^{2n}}$   
 (D)  $\frac{1}{x^n}$  (E)  $\frac{1}{x}$

2. Two triangles of equal areas have bases equal to 10 inches and 16 inches, respectively. What is the ratio of the altitude of the first triangle to the altitude of the second triangle?

(A) 25 to 64 (B) 5 to 8 (C)  $\sqrt{10}$  to 4  
 (D) 4 to  $\sqrt{10}$  (E) 8 to 5

3. As shown in Figure 1, town P is 50 miles due east of airfield T. A plane flies in a direction  $x^\circ$  north of east from T. When the plane is directly north of P, how many miles is it from T?

(A)  $\frac{50}{\cos x^\circ}$  (B)  $50 \tan x^\circ$  (C)  $50 \cos x^\circ$   
 (D)  $\frac{\cot x^\circ}{50}$  (E)  $\frac{\sin x^\circ}{50}$

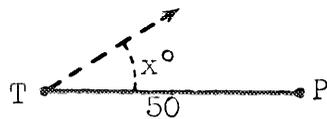


Figure 1

4. A certain coal mine produces  $n$  tons of coal per month. If, because of a strike, this mine produces no coal for one month, the national output for that month (normally  $x$  tons) is reduced to what fraction of the normal amount?

(A)  $\frac{x-n}{x}$  (B)  $\frac{x}{x+n}$  (C)  $\frac{n-1}{n}$   
 (D)  $\frac{nx-n}{x}$  (E)  $\frac{x+n}{x}$

5. In Figure 2, it is known that points P, O, R, and S all lie on a circle. PR and QS intersect at K. If  $QK=12$ ,  $RK=6$ , and  $SK=4$ , then  $PK=(?)$

(A) 2 (B) 6 (C) 8 (D) 10 (E) 18

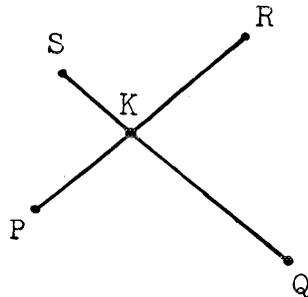


Figure 2

6. If  $\log_{10} x = 3 + \log_{10} 4$ ,  $x = (?)$

(A) 7 (B) 12 (C) 250  
 (D) 1004 (E) 4000

## PART II—REGULAR EXAMINATION ONLY

USE THIS SPACE FOR FIGURING

7. If  $4 + \sqrt{4n} = 2n$ ,  $n = (?)$   
 (A) -2 (B) 1 (C) 2  
 (D) 4 (E) 1 and 4

8. Figure 3 shows a circle with center  $O$ , radius  $r$ , and a line tangent to this circle at  $T$ . How far from  $T$  is a point  $P$  on the tangent such that the external segment of the line joining  $O$  and  $P$  is half as long as  $TP$ ?

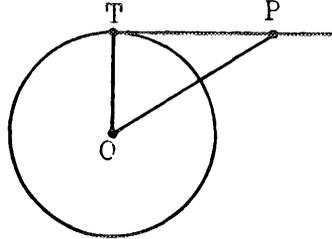


Figure 3

9. If  $t = \frac{3}{2}$  is a root of the equation  $2t^2 - mt + 6 = 0$ ,  $m = (?)$   
 (A) -1 (B) 1 (C) 4 (D)  $5\frac{1}{2}$  (E) 7

10. In Figure 4,  $LMNPQ$  is an inscribed pentagon such that arc  $PQ = 70^\circ$ .  $\angle L + \angle N = (?)^\circ$

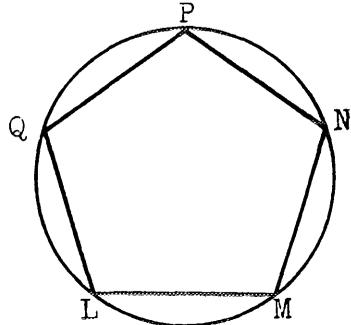


Figure 4

- (A) 145 (B) 210 (C) 215  
 (D) 290 (E) 430

## 2. English

The entrance examination in English is three hours in length. Regular candidates take the entire examination; validating candidates take the first one and one-half hours of the examination. Questions will test the candidate's vocabulary, spelling, knowledge of grammar and literature, and reading ability. The practice questions below are illustrative of the general nature and difficulty of the examination. One or two other types of questions may be included in addition to, or in place of, those given below. A sample answer sheet and a list of the correct answers for the practice questions follows the description of the West Point Aptitude Test.

### VALIDATING EXAMINATION AND PART I—REGULAR EXAMINATION

*Directions.*—Each question below consists of a group of four words, two of which are approximately *opposite* to each other in meaning. Decide which two words in each group are most nearly *opposite*, and blacken the space beneath the corresponding pair of numbers on the answer sheet; i. e., mark the space between the dotted lines beneath "1-2" if words numbered 1 and 2 are opposite, beneath "2-4" if words 2 and 4 are opposite, beneath "3-4" if words 3 and 4 are opposite, etc. Mark only one set of dotted lines for each answer.

- |                |             |            |              |
|----------------|-------------|------------|--------------|
| 1. 1—tributary | 2—aggrieved | 3—vincible | 4—appealed   |
| 2. 1—eminence  | 2—learning  | 3—ignominy | 4—latitude   |
| 3. 1—foreign   | 2—affluent  | 3—indigent | 4—persuasive |

*Directions.*—Each of these questions consists of four words numbered 1 to 4. In some of the questions there is *one* misspelled word; in some of the questions all the words are spelled correctly. You are to decide which of the four words, if any, is misspelled, and blacken the space beneath the corresponding number on the answer sheet. If there is *no* spelling error in a question, blacken the space beneath the "0." No question contains more than one misspelled word.

- |                    |                |                  |                 |
|--------------------|----------------|------------------|-----------------|
| 4. 1—digestion     | 2—antagonistic | 3—paralysis      | 4—herisy        |
| 5. 1—committed     | 2—embarass     | 3—pronunciation  | 4—villain       |
| 6. 1—inspirational | 2—species      | 3—irreconcilable | 4—miscellaneous |

*Directions.*—In the sentences below, certain portions are underlined and numbered. On the right-hand side of the page are suggested several ways of writing or punctuating each underlined portion. Choose the answer which is *best* for formal writing, and blacken the space beneath the corresponding number on the appropriate line on the answer sheet.

- Our staff reported yesterday that they have not yet deciphered the message. 7. (1) have not yet deciphered  
(2) had not yet deciphered  
(3) did not yet decipher
- On July 4, 1776, the American colonies declared themselves completely independent from British rule. 8. (1) from (2) of
- No one was much taken by the applicant's personality, though his credentials indicated that he was pleasant, intelligent, and friendly. 9. (1) , though (2) : though  
(3) ; though (4) . Though
- Shakespeare is the most universally loved of all poets. 10. (1) of all poets  
(2) of any poet  
(3) of any poets  
(4) of any other poets

## PART II—REGULAR EXAMINATION ONLY

*Directions.*—Each incomplete statement below is followed by five suggested completions, only *one* of which is correct. Select the correct completion and blacken the space beneath the corresponding number on the answer sheet.

11. Washington Irving's works are characterized by  
1—concern with industrial problems  
2—cool impersonality  
3—humor and sentimentality  
4—bitter satire of the author's rivals  
5—championship of feminism
12. The literary form most characteristic of the Romantic Period is  
1—lyric poetry  
2—drama  
3—satire  
4—sonnet sequences  
5—scientific prose
13. The idea that people without great wealth, noble birth, or exceptional beauty are fit subjects for poetry finds conspicuous expression in  
1—Shakespeare's sonnets  
2—Pope's *The Rape of the Lock*  
3—Dryden's *Abraham and Achitophel*  
4—Wordsworth's *Composed upon Westminster Bridge*  
5—Gray's *Elegy Written in a Country Churchyard*

*Directions.*—Each of these questions consists of two words which have a certain relationship to each other, followed by five numbered pairs of related words. Select the numbered pair of words which are related to each other in the *same* way as the original pair of words are related to each other. Then, on the answer sheet, blacken the space beneath the number corresponding to the number of the pair you have selected.

14. SMILE: LAUGH :: 1—grin: whimper 2—grin: wail 3—whimper: wail 4—whimper: sad 5—mouth: face
15. HELMSMAN: SHIP :: 1—leader: victory 2—army: victory 3—enemy: battle 4—conscience: conduct  
5—patriotism: nation
16. DINOSAUR: DRAGON :: 1—reptile: mammal 2—real: fabulous 3—prehistoric: medieval 4—kangaroo: antelope 5—wisdom: folly

*Directions.*—*One* of the numbered words in each of the following paragraphs spoils the sense or meaning of the paragraph as a whole. Read each paragraph through and decide which *one* of the numbered words spoils the meaning. Then blacken the space beneath the corresponding number on the answer sheet.

17. The limestone region of the Carso has been a scene of excessive<sub>1</sub> activity in cave formation, and as such<sub>2</sub> is of greatest importance<sub>3</sub> to the geologist. In places the earth is absolutely<sub>4</sub> honey-combed with the tortuous<sub>5</sub> galleries<sub>6</sub> and passages characteristic of this type of erosion<sub>7</sub>.
18. They were living<sub>1</sub> in a warmer climate, in which a diet of beef and fermented liquor was destructive<sub>2</sub>; they were forced, therefore, to a generally vegetarian diet<sub>3</sub>, and the barren<sub>4</sub> soil, almost<sub>5</sub> unasked<sub>6</sub>, gave them all the food<sub>7</sub> they needed.
19. The literary<sub>1</sub> critics<sub>2</sub> of the seventeenth century, especially in France, were fond of representing<sub>3</sub> their political<sub>4</sub> theories graphically<sub>5</sub>, by drawing elaborate allegorical<sub>6</sub> maps of the land of poetry<sub>7</sub>.

### 3. United States History

The special examination in United States History (see par. 4 b (2), Sec. II) will be three hours in length. Part I (two hours) will contain multiple-choice questions; Part II (one hour) will contain essay questions. The samples below illustrate the kinds of questions which will be asked, and indicate the difficulty and the subject-matter coverage of the examination. A sample answer sheet and a list of the correct answers for these questions follows the description of the West Point Aptitude Test.

#### PART I (Two hours)

*Directions.*—Each incomplete statement below is followed by five words, phrases, or clauses, *one* of which will complete the statement correctly. Select the correct completion and blacken the space beneath the corresponding number on the appropriate line on the answer sheet.

1. The Granger movement was supported by
  - 1—the great cattlemen of the West who wanted the open grange retained for their herds
  - 2—owners of grain elevators who wished to stimulate the production of wheat
  - 3—people interested in preserving the forests of the United States
  - 4—pioneers who believed in squatters' rights
  - 5—farmers who were conscious of their economic hardships
2. Diplomatic immunity is
  - 1—the condition of a country well-protected by buffer states
  - 2—a strong, unassailable alliance between states
  - 3—police protection granted to the embassies of foreign countries
  - 4—privileges granted by a country to its diplomats, due to the nature of their work
  - 5—the freedom from arrest and taxation accorded to members of the diplomatic staffs of foreign countries

*Directions.*—Each incomplete statement below is followed by two or more numbered sets of completions. ONE of the 3 completions in each set is FALSE. Find the *false completion* in each set, and on the answer sheet blacken the space corresponding to it in number.

However they disagreed on many details, the men who drew up the Constitution of the United States at Philadelphia in 1787 were agreed on certain essentials. The majority wished to create a central government which could

3. 1—support an army strong enough to suppress domestic disorder
- 2—make commercial treaties with foreign nations
- 3—give financial assistance to private debtors
4. 1—pay off its financial obligations
- 2—collect and enforce interstate tariffs
- 3—be less directly subject to popular control than were the state governments

After the first World War there was a prolonged agricultural depression in the United States because

5. 1—the fertility of American farms was practically exhausted
- 2—the great expansion of land under cultivation during the war resulted in unsalable surpluses when the war markets collapsed
- 3—our high protective tariff prevented foreign nations from selling to us, and consequently they were not able to buy goods from us
6. 1—there was a sharp reduction in the demand for hay and grain to feed draft animals
- 2—improvements in machines made it possible to produce enormous quantities of agricultural products
- 3—foreign producers gained over thirty per cent of our domestic market for agricultural products

*Directions.*—Each item in this section is a statement about *one* of the four labor disturbances (lettered A to D) listed below. Select the one to which each statement best applies, and blacken the space beneath the corresponding letter on the answer sheet.

- (A) Homestead Strike
- (B) Pullman Strike
- (C) Mining Strike of 1902
- (D) Haymarket Affair

7. Was of such great importance that President Theodore Roosevelt intervened and induced a settlement of the matter.
8. Hurt the reputation of the Knights of Labor so much that this organization dissolved not many years later.
9. Culminated in a pitched battle between strikers and Pinkerton detectives hired by the Carnegie Steel Company.
10. Terminated to the advantage of the company, because of a Federal injunction issued against the labor leaders.
11. Was caused by the hurling of a bomb into the midst of massed strikers.
12. Did not terminate to the advantage of the strikers, principally because the companies involved succeeded in gaining the support of President Cleveland and Attorney-General Olney.
13. Ended in a signal victory for the strikers, because the dispute was arbitrated in their favor.
14. Resulted in the breaking of the union's power, and enabled magnates to prevent the organization of labor for over forty years in the steel industry.

*Directions.*—Each of the following quotations is typical of *one* of the 5 names or phrases which follow it. Decide which one of the 5 choices is the most likely source of the quotation, and blacken the space beneath its number on the appropriate line on the answer sheet.

*Note.*—You are not expected to recall these quotations from memory. It is intended rather that you examine each statement carefully to determine the point of view it summarizes, and then from your knowledge of history select the most probable answer.

15. "We think it so much in the public interest to maintain a vigorous judiciary that we encourage the retirement of elderly judges by offering them a life pension at full salary. Why then should we leave the fulfillment of this public policy to chance or make it dependent upon the desire or prejudice of any individual Justice?"
  - 1—Charles E. Hughes
  - 2—Herbert Hoover
  - 3—Franklin Roosevelt
  - 4—Thomas Dewey
  - 5—Alfred Landon
  
16. "It matters not what way the Supreme Court may hereafter decide as to the abstract question of whether slavery may or may not go into a Territory under the Constitution; the people have the lawful means to introduce it or exclude it as they please, for the reason that slavery cannot exist a day or an hour, anywhere, unless it is supported by local police regulations."
  - 1—Roger B. Taney
  - 2—John C. Calhoun
  - 3—William Lloyd Garrison
  - 4—Jefferson Davis
  - 5—Stephen A. Douglas

## PART II (One hour)

In this part you will be given approximately five essay questions, possibly including a map question. The questions are to be answered fully and concisely. Illustrative questions are:

1. (a) State four weaknesses of American government under the Articles of Confederation.  
(b) Describe briefly how the Constitution of 1787 corrected any two of these weaknesses.
2. (a) What was the fundamental purpose underlying the Monroe Doctrine as it was originally promulgated?  
(b) State in your own words the Theodore Roosevelt Corollary to the Monroe Doctrine, and show how this corollary has been affected by the "good-neighbor" policy of Franklin D. Roosevelt.
3. (a) What was the significance of the decision of the Supreme Court in the case of *Marbury v. Madison*?  
(b) What was the attitude of the Supreme Court, on the eve of the Civil War, toward Congressional control of slavery in the territories?  
(c) What opinion regarding the power of Congress to levy taxes was rendered by the Supreme Court during Cleveland's second term?

## 4. West Point Aptitude Test

This test is divided into two parts: Part I—Language; and part II—Mathematics. Thirty minutes is allotted to each part, in addition to the time devoted to supervised study of the instructions and answering practice questions. The following model illustrates the general type, but not the number, of questions to be expected. A sample answer sheet and a list of the correct answers for these questions follows this test.

### PART I—LANGUAGE

This examination is based on an artificial language. The test questions measure the understanding of the organization of a language and the ability to apply its principles with speed and accuracy. Principles used include the formation of words from roots, inflection of verbs for tense, agreement of nouns and adjectives, inflection for number. The following key and questions illustrate the nature of the test.

### KEY

#### VOCABULARY

mesrag.....the examination.	pagrez.....to be.
poprun.....a student.	dinez.....to like.
mesrun.....an examiner.	cludez.....to take.
neezag.....the difficulty.	pol.....not

Verbs are formed by changing the noun ending (*ag* or *un*) to

- ez* for the infinitive.
- az* for the present tense.
- oz* for the past tense.
- ip* for the future tense.

An adjective is formed from a noun by changing the noun ending (*ag* or *un*) to *ub*.

An adjective agrees with its noun in number. The plural of a noun or adjective is formed by adding *no* to it. There is no translation for the articles.

In questions 1 to 4, inclusive, indicate which of the four alternatives marked A, B, C, and D correctly translates the statement.

1. The student took the examination.
  - (A) Poprun cludej mesrag.
  - (B) Poprez cludav mesrag.
  - (C) Poprun cludip mesrag.
  - (D) Poprag cludez mesrag.

2. The examinations are not difficult.  
 (A) Mesragno pagravno pol neezub.  
 (B) Mesrag pagravno pol neezub.  
 (C) Mesragno pagravno pol neezubno.  
 (D) Mesragno pagrav pol neezubno.
3. Mesrun mesrip poprugno.  
 (A) The examiner examines the students.  
 (B) The examiner will examine the students.  
 (C) The examiners will examine the student.  
 (D) The examiner examined the student.
4. Poprunno poprav neezub mesrag.  
 (A) The students study the difficult examinations.  
 (B) The student will study the difficult examination.  
 (C) The students study the difficult examination.  
 (D) The student studied the difficult examinations.

In questions 5 and 6 indicate which of the four alternatives should be used to complete the sentence.

5. Mesrun .....mesrag.  
 (A) poprip.  
 (B) popez.  
 (C) neezip.  
 (D) pagrej.
6. Poprunno ..... mesrag.  
 (A) mesrun.  
 (B) cludag.  
 (C) pagrip.  
 (D) dinej.

## PART II—MATHEMATICS

This section of the examination consists of a series of algebraic problems which measure the applicant's ability to perform simple algebraic computations with speed and accuracy. The problems cover the elementary principles of addition, subtraction, multiplication, and division in algebra, and require a knowledge of such concepts as factoring, exponents, and evaluation. The following problems illustrate the types of questions.

In each question indicate which of the four possible answers (A), (B), (C), or (D), is the correct one.

USE THIS SPACE FOR FIGURING

1. If  $2x+4y=17$  and  $3y-2x=11$ , then  $y-2x$  equals  
 (A)  $\frac{1}{2}$  (B) 2 (C) 3 (D) 6
2.  $\frac{(7)(8)}{(2)(6)} \div 6$  equals  
 (A) 1 (B) 4 (C)  $\frac{49}{9}$  (D) 8
3. If  $h=k=p=5$ , then  $21h^2-17k^2+6p^2$  equals  
 (A) 50 (B) 250 (C) 500 (D) 1100
4. If  $d=-4$  and  $n=5$ , then  $3(n-d)-8(d-n)$  equals  
 (A) -45 (B) 11 (C) 45 (D) 99

## 5. Sample Answer Sheet

Answers to the questions in all examinations will be indicated on a *separate answer sheet*, similar to the one below. No credit will be allowed for anything written in the test booklets. The answers to several of the questions are indicated in the appropriate places on this sample answer sheet. For a list of the correct answers to all questions, see page 72.

### Mathematics Examination

- |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|
|     | A   | B   | C   | D   | E   |
| 1.  | --- | --- | --- | --- | --- |
| 2.  | --- | --- | --- | --- | --- |
| 3.  | --- | --- | --- | --- | --- |
| 4.  | --- | --- | --- | --- | --- |
| 5.  | --- | --- | --- | --- | --- |
| 6.  | --- | --- | --- | --- | --- |
| 7.  | --- | --- | --- | --- | --- |
| 8.  | --- | --- | --- | --- | --- |
| 9.  | --- | --- | --- | --- | --- |
| 10. | --- | --- | --- | --- | --- |

### English Examination

- |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|
|     | 1-2 | 1-3 | 1-4 | 2-3 | 2-4 | 3-4 |
| 1.  | --- | --- | --- | --- | --- | --- |
| 2.  | --- | --- | --- | --- | --- | --- |
| 3.  | --- | --- | --- | --- | --- | --- |
| 4.  | --- | --- | --- | --- | --- | --- |
| 5.  | --- | --- | --- | --- | --- | --- |
| 6.  | --- | --- | --- | --- | --- | --- |
| 7.  | --- | --- | --- | --- | --- | --- |
| 8.  | --- | --- | --- | --- | --- | --- |
| 9.  | --- | --- | --- | --- | --- | --- |
| 10. | --- | --- | --- | --- | --- | --- |
| 11. | --- | --- | --- | --- | --- | --- |
| 12. | --- | --- | --- | --- | --- | --- |
| 13. | --- | --- | --- | --- | --- | --- |
| 14. | --- | --- | --- | --- | --- | --- |
| 15. | --- | --- | --- | --- | --- | --- |
| 16. | --- | --- | --- | --- | --- | --- |
| 17. | --- | --- | --- | --- | --- | --- |
| 18. | --- | --- | --- | --- | --- | --- |
| 19. | --- | --- | --- | --- | --- | --- |

United States History Examination

1. 

1	2	3	4	5
---	---	---	---	---
---	---	---	---	---
2. 

1	2	3	4	5
---	---	---	---	---
---	---	---	---	---
3. 

1	2	3
---	---	---
---	---	---
4. 

1	2	3
---	---	---
---	---	---
5. 

1	2	3
---	---	---
---	---	---
6. 

1	2	3
---	---	---
---	---	---
7. 

A	B	C	D
---	---	---	---
---	---	---	---
8. 

A	B	C	D
---	---	---	---
---	---	---	---
9. 

A	B	C	D
---	---	---	---
---	---	---	---
10. 

A	B	C	D
---	---	---	---
---	---	---	---
11. 

A	B	C	D
---	---	---	---
---	---	---	---
12. 

A	B	C	D
---	---	---	---
---	---	---	---
13. 

A	B	C	D
---	---	---	---
---	---	---	---
14. 

A	B	C	D
---	---	---	---
---	---	---	---
15. 

1	2	3	4	5
---	---	---	---	---
---	---	---	---	---
16. 

1	2	3	4	5
---	---	---	---	---
---	---	---	---	---

West Point Aptitude Test

Part I Language

1. 

A	B	C	D
---	---	---	---
---	---	---	---
2. 

A	B	C	D
---	---	---	---
---	---	---	---
3. 

A	B	C	D
---	---	---	---
---	---	---	---
4. 

A	B	C	D
---	---	---	---
---	---	---	---
5. 

A	B	C	D
---	---	---	---
---	---	---	---
6. 

A	B	C	D
---	---	---	---
---	---	---	---

Part II Mathematics

1. 

A	B	C	D
---	---	---	---
---	---	---	---
2. 

A	B	C	D
---	---	---	---
---	---	---	---
3. 

A	B	C	D
---	---	---	---
---	---	---	---
4. 

A	B	C	D
---	---	---	---
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KEY TO ANSWERS

Mathematics Examination

1. E
2. E
3. A
4. A
5. C
6. E
7. D
8. B
9. E
10. C

English Examination

1. 2-4
2. 1-3
3. 2-3
4. 4
5. 2
6. 0
7. 2
8. 2
9. 1
10. 1
11. 3
12. 1
13. 5
14. 3
15. 4
16. 2
17. 3
18. 4
19. 4

United States History Examination

1. 5
2. 5
3. 3
4. 2
5. 1
6. 3
7. C
8. D
9. A
10. B
11. D
12. B
13. C
14. A
15. 3
16. 5

West Point Aptitude Test

Part I Language

1. A
2. D
3. B
4. C
5. A
6. D

Part II Mathematics

1. C
2. B
3. B
4. D

## 6. Additional Causes for Physical Disqualification. (See Sec. II, pars. 12, 13, 14.)

### a. In general:

- (1) Any deformity which is repulsive or which prevents the proper functioning of any part to a degree interfering with military efficiency.
- (2) Obesity.
- (3) A height of more than 76 inches.
- (4) Deficient muscular development.
- (5) Deficient nutrition.
- (6) Evidences of physical characteristics of congenital asthenia. The physical characteristics of congenital asthenia are slender bones, a weak ill-developed thorax, nephroptosis, gastroptosis, constipation, the "drop" heart, with its peculiar attenuation and weak and easily fatigued musculature.
- (7) All acute communicable diseases.
- (8) All diseases and conditions which are not easily remediable or that tend physically to incapacitate the individual, such as—
  - (a) Chronic malaria.
  - (b) Uncinariasis (hookworm).
  - (c) Active tuberculosis of any type or degree.
  - (d) Leprosy and actinomycosis.
  - (e) Pellagra, beriberi, sprue, scurvy, or other evidence of vitamin deficiency.
  - (f) History of recent or recurrent attacks of rheumatic fever or chorea within last five years; atropic or hypertrophic arthritis; chronic myositis or fibrositis.
  - (g) Osteomyelitis of any bone or a history of osteomyelitis of any of the long bones of the extremities at any time.
  - (h) Malignant disease of all kinds in any location.
  - (i) Hemophilia or purpura.
  - (j) Leukemia of all types.
  - (k) Primary (pernicious), secondary, or splenic anemia.
  - (l) Filariasis, trypanosomiasis, and schistosomiasis.
  - (m) Diabetes mellitus or insipidus, or renal glycosuria.
  - (n) Acromegaly, gigantism, myxoedema, cretinism, Addison's disease, gout, Simmond's disease, and other endocrine diseases.
  - (o) Chronic metallic poisoning.
  - (p) Migraine.
  - (q) Hay fever if more than mild; food intolerance, angioneurotic edema, or other allergic manifestations if of sufficient degree to warrant desensitization or use of vasoconstrictor drugs; asthma of any degree.

### b. The skin:

- (1) Eczema of long standing or which is resistant to treatment.
- (2) Pemphigus; lupus; sycosis; psoriasis.
- (3) Actinomycosis; dermatitis; herpiformis; mycosis fungoides.

- (4) Ichthyosis or psoriasis if more than of slight degree.
- (5) Acne upon face or neck which is so pronounced as to be definitely unsightly.
- (6) Elephantiasis.
- (7) Scabies; impetigo.
- (8) Furunculosis, unless mild in degree.
- (9) Ulcerations of the skin not amenable to treatment, or those of long standing or of considerable extent, or of syphilitic, tuberculous, malignant, or leprous origin.
- (10) Extensive, deep, or adherent scars that interfere with muscular movements or with the wearing of military equipment, or that show a tendency to break down and ulcerate.
- (11) Naevi or vascular tumors, if extensive, markedly disfiguring, or exposed to constant pressure.
- (12) Obscene or offensive tattooing on portions of the body subject to exposure.
- (13) Vitiligo of the face or body, or other skin defect if sufficient to be considered disfiguring or unsightly.
- (14) Chronic trichophytosis or other chronic fungus infections which have not been amenable to treatment.
- (15) Chronic urticaria and chronic angioneurotic edema.
- (16) Exfoliating dermatitis; severe chronic seborrheic dermatitis.
- (17) Chronic lichen planus; dermatitis factitia; scleroderma.
- (18) Pilonidal cyst if evidenced by the presence of a tumor mass or a discharging sinus or if there is a history of inflammation or discharging sinus.

*c. The head:*

- (1) Tinea in any form.
- (2) All tumors which are of sufficient size to interfere with the wearing of military headgear.
- (3) Imperfect ossification of the cranial bones.
- (4) Extensive cicatrices, especially such adherent scars as show a tendency to break down and ulcerate.
- (5) Depressed fractures or loss of bony substance of the skull.
- (6) Hydrocephalus or microcephalus.
- (7) Deformities of the skull of any degree associated with evidence of disease of the brain, spinal cord, or peripheral nerves.

*d. The face:*

- (1) Extreme ugliness.
- (2) Unsightly deformities such as large birthmarks, large hairy moles, extensive cicatrices, and mutilations due to injuries or surgical operations; tumors; ulcerations; fistulae, atrophy of a part of the face or lack of symmetrical development.
- (3) Persistent neuralgia; tic douloureux; paralyzes.
- (4) Ununited fractures; osseous cysts; extensive exostoses.
- (5) Chronic arthritis; complete or partial ankylosis; badly reduced or recurrent dislocations of the temporo-mandibular articulation.

*e. The mouth, nose, fauces, pharynx, larynx, trachea, and esophagus.*

- (1) Harelip; loss of the whole or a large part of either lip; unsightly mutilations of the lips from wounds, burns, or disease.

- (2) Malformation, partial loss, atrophy, or hypertrophy of the tongue, split or bifid tongue, adhesions of the tongue to the sides of the mouth, provided these conditions interfere with mastication, speech, or swallowing, or appear to be progressive.
- (3) Malignant tumors of the tongue or benign tumors that interfere with its functions.
- (4) Marked stomatitis; ulcerations; severe leukoplakia.
- (5) Ranula if extensive; salivary fistula.
- (6) Perforation or extensive loss of substance or ulceration of the hard or soft palate; extensive adhesions of the soft palate to the pharynx; paralysis of the soft palate.
- (7) Loss of the nose, malformation, or deformities thereof that interfere with speech or breathing; extensive ulcerations.
- (8) Perforated nasal septum, if progressive, or if respiration is accompanied by a noticeable whistling sound. Before accepting any candidate with a perforated nasal septum, the possibility of syphilitic infection will be excluded.
- (9) Nasal obstruction due to septal deviation; hypertrophic rhinitis, or other conditions causing over 50% obstruction.
- (10) Acute or chronic inflammation of the accessory sinuses of the nose; hay fever of sufficient degree to warrant desensitization or the use of vasoconstrictor drugs, ephedrine, or epinephrine either locally or systemically.
- (11) Chronic atrophy rhinitis, if marked and accompanied by ozena.
- (12) Malformations and deformities of the pharynx of sufficient degree to interfere with function.
- (13) Postnasal adenoids interfering with respiration or associated with recurrent middle ear disease.
- (14) Chronic enlargement of the tonsils sufficient to interfere with speech or swallowing.
- (15) Chronic laryngitis from any cause.
- (16) Paralysis of the vocal cords; aphonia.
- (17) Tracheotomy.
- (18) Diverticulum, ulceration, stricture, or pronounced dilatation of the esophagus.

*f. The neck:*

- (1) Cervical lymph node involvement of other than benign origin, including cancer, Hodgkin's disease, leukemia, tuberculosis, and syphilis.
- (2) Adherent and markedly disfiguring scars from disease, injuries, or burns.
- (3) Moderate or marked enlargement of the thyroid gland from any cause.
- (4) Exophthalmic or adenomatous goiter or thyroid enlargement from any cause associated with toxic symptoms, history of thyroidectomy.
- (5) Benign tumors or cysts which are so large as to interfere with the wearing of the uniform or military equipment.
- (6) Congenital cysts of brachial cleft origin, or those developing from the remains of a thyroglossal duct, with or without fistulous tracts.
- (7) Torticollis; cervical rib.

*g. The chest:*

- (1) Chest expansion less than two inches.
- (2) Congenital malformations or acquired deformities which result in reducing the chest capacity and diminishing the cardiac or respiratory functions to such a degree as to interfere with vigorous physical exertion, or that produce disfigurement when the applicant is dressed.
- (3) Pronounced contraction of the chest wall following pleurisy or empyema.
- (4) Deformities of the chest or scapulae sufficient to interfere with the carrying of military equipment.
- (5) Absence or faulty development of the clavicle.
- (6) Old fracture of the clavicle where there is much deformity or interference with the carrying of military equipment; ununited fractures; or partial or complete dislocation of either end of the clavicle.
- (7) Suppurative periostitis, osteomyelitis, caries, or necrosis of the ribs, sternum, clavicles, scapulae, vertebrae, or other bones.
- (8) Old fractures of the ribs with faulty union, if interfering with function.
- (9) Malignant tumors of the breast or chest wall, and benign tumors which interfere with the wearing of a uniform or of military equipment.
- (10) Unhealed sinuses of the chest wall.
- (11) Scars of old operations for empyema unless the examiner is assured that the respiratory function is entirely normal.

*h. The lungs:*

- (1) History of:
  - (a) Clinical tuberculosis exceeding minimal extent.
  - (b) Tuberculosis of minimal extent clinically active within the preceding five years.
  - (c) Known tuberculous pleurisy with effusion.
  - (d) Pleurisy with effusion of unknown origin within the preceding five years.
- (2) Active tuberculosis, including pleurisy with effusion which is to be considered of tuberculous origin if no other cause can be proved.
- (3) Inactive pulmonary tuberculosis, except as specified in Army Regulations.
- (4) Nontuberculous defects as specified in Army Regulations.

*i. The heart and vascular system:*

All questionable findings will be thoroughly investigated over a sufficient period of time to determine their significance. Any evidence of organic heart disease will be considered as cause for rejection. When a candidate is found to have a systolic blood pressure of 140 mm. or more, or a diastolic blood pressure of 90 mm. or more, a series of readings, both a. m. and p. m. will be taken over a period of 3 days or more in order to determine if the arterial hypertension is constant and, if possible, the causes thereof. All readings will be taken with the individual relaxed and in the sitting position after a period of normal physical activity. A period of recumbency prior to taking readings will not be used.

- (1) All valvular diseases of the heart.

- (2) Cardiac enlargement as indicated in notation below.
- (3) A heart rate of 100 or over when persistent after repeated examination in the recumbent position. (A. m. and p. m. examinations for 3 days are considered adequate for such determination.)
- (4) A heart rate of 50 or under, if the history, physical examination, or an electrocardiogram shows the presence of A-V heart block or other evidence of heart disease.
- (5) Hypertension evidenced by a persistent systolic blood pressure of 140 mm. or more, or a persistent diastolic blood pressure of 90 mm. or more.
- (6) Arterial hypotension, when the systolic blood pressure is persistently less than 100 mm. in the sitting or standing position.
- (7) Pericarditis, endocarditis, myocarditis, or myocardial insufficiency.
- (8) Coronary heart disease, including angina pectoris.
- (9) Congenital disease or deformity of the heart or great vessels.
- (10) Aneurysm.
- (11) Arteriosclerosis disproportionate to age.
- (12) Arrhythmia, except sinus arrhythmia and occasional extrasystoles.
- (13) History of rheumatic fever or chorea within the preceding two years or substantiated history of recurrent attacks of rheumatic fever or chorea at any time.
- (14) Evidence of vasomotor instability or neurocirculatory asthenia, if persistent on examination of not less than three days.
- (15) Electrocardiographic evidence of paroxysmal tachycardia, auricular fibrillation, auricular flutter, incomplete A-V block with or without dropped beats, complete A-V block, bundle branch block, and recent or remote coronary occlusion.
- (16) Orthostatic hypotension or tachycardia, if marked and persistent.
- (17) Inadequate arterial blood supply to any limb.
- (18) Arteritis of any artery.
- (19) Intermittent claudication, if confirmed by peripheral vascular tests.
- (20) Phlebitis or thrombophlebitis, or evidence of repeated phlebitis in the past. Varicosities of any extremity, unless mild in degree.

NOTE.—An apex beat located beyond the left midclavicular line or below the sixth rib indicates an enlargement sufficient to disqualify for military service if this finding is supported by X-ray evidence of abnormality of cardiac size or contour. The cause of such enlargement should be sought for and enlargement should not be made a primary diagnosis unless careful examination fails to reveal a cause.

*j. The abdomen:*

- (1) Wounds, injuries, cicatrices, or weakness of muscles of the abdominal walls sufficient to interfere with function.
- (2) Fistulae from visceral or bony lesions or following operation.
- (3) Hernia of any variety or a history of a recurrent hernia even though apparently repaired by a second operation.
- (4) Chronic diseases of the stomach or intestines.
- (5) Gastric or duodenal ulcer or history of gastric or duodenal ulcer with or without operation.

- (6) History of gastroenterostomy, gastric resection, resection of peptic ulcer, partial resection of the intestine, or operation for relief of intestinal adhesions. If pyloric stenosis occurred in infancy but there have been no symptoms of obstruction since then, it will not disqualify applicant if X-ray studies of the gastrointestinal tract are negative at the time of examination.
- (7) Blood in the feces unless shown to be due to unimportant causes.
- (8) Visceroptosis other than mild.
- (9) Chronic diseases of the liver, gall bladder, pancreas, or spleen.
- (10) History of splenectomy for reason other than trauma.
- (11) Enlargement of the liver.
- (12) Chronic enlargement of the spleen.
- (13) Jaundice or history of recurrent jaundice.
- (14) Proctitis, stricture, or prolapse of the rectum.
- (15) External or internal hemorrhoids if large in size or symptomatic.
- (16) Fistula in ano; ischiorectal abscess.
- (17) Fissure of the anus or pruritus ani.
- (18) Incontinence of feces.
- (19) Marked engorgement of superficial abdominal vessels.

*k. The genito-urinary system, including venereal diseases:*

A serologic test for syphilis will be required of all candidates. A negative report will be accepted as satisfactory evidence of freedom from syphilis in the absence of a history of, previous treatment for, or clinical signs of syphilis. A positive or doubtful report will be rechecked by both a Kahn and Wassermann test within 3 days. An authentic history of syphilis of any type is cause for rejection without further laboratory procedure. A repeated positive serologic test, in the absence of a history of syphilis, will be accepted as evidence of the disease and considered cause for rejection. If, on repeated serologic tests, the results remain doubtful or positive and, after careful history and physical examination, the individual presents no evidence of having had syphilis at any time, the War Department will notify him whether or not he is eligible for a 3-month observation period and designate the time and place for the reexamination. During this 3-month period, he will have a quantitative serologic test for syphilis performed every 3 weeks. At the end of the 3-month observation period, providing the individual's physical condition remains the same, and his serologic tests have become negative, he will be considered nonsyphilitic and qualified. Those individuals with confirmed positive reactions will be rejected. A positive spinal fluid test for syphilis at any time will be cause for rejection.

When albumin or casts are found in the urine, the cause will be determined, if possible. Specimens from the individual concerned will be examined twice daily, morning and afternoon, for 3 successive days. These specimens will be collected while the individual is carrying on with his normal activities. Persistent albuminuria of any type or the persistence of casts in the urine will be a cause for rejection, even though the etiology thereof cannot be determined.

- (1) Acute or chronic nephritis, diabetes mellitus or insipidus, or renal glycosuria.

- (2) Blood, pus, albumin or pathologically significant casts in the urine, if persistent (found on a. m. and p. m. rechecks for 3 consecutive days).
- (3) Floating kidney; hydronephrosis; pyonephrosis; pyelitis; tumors of the kidney; absence of one kidney; renal calculi.
- (4) Acute or chronic cystitis.
- (5) Vesical calculi; tumors of the bladder; incontinence or retention of urine; enuresis.
- (6) Hypertrophy or abscess of the prostate gland; chronic prostatitis; history of prostatectomy or transurethral resection.
- (7) Urethral stricture or urinary fistula.
- (8) Phimosis, epispadias or pronounced hypospadias.
- (9) Hermaphroditism; infantile genital organs.
- (10) Amputation or deformity of the penis.
- (11) Varicocele or hydrocele, if large or painful.
- (12) Pronounced atrophy of both testicles or absence of both.
- (13) Atrophy, deformity or maldevelopment of both testicles, or undescended testicles of any degree.
- (14) Chronic orchitis or epididymitis.
- (15) Syphilis as specified in Army Regulations.
- (16) Gonococcus infections, acute or chronic; chancroid; granuloma inguinale; lymphogranuloma venereum.

*l. Spine and pelvis, including sacroiliac and lumbo-sacral joints:*

- (1) Lateral deviation of the spine from the normal midline of more than 1 inch (scoliosis).
- (2) Curvature of the spine of any degree in which there is noticeable deformity when the candidate is dressed (scoliosis, kyphosis, or lordosis), or in which there is present or likely to develop pain or interference with function.
- (3) Spondylolisthesis; herniated nucleus pulposus or history of operation for same.
- (4) Healed fractures or dislocations of the vertebrae.
- (5) Tuberculosis, either active or healed, of any portion of the vertebral column.
- (6) Osteoarthritis of the spinal column.
- (7) Malformation or deformities of the pelvis sufficient to interfere with function.
- (8) Disease, chronic strain, or sprain of the sacroiliac or lumbo-sacral joints.

*m. The extremities:*

Suitable exercise will be employed to determine the strength of the arches of the feet. Weak or painful feet are cause for rejection regardless of whether or not the arch is flattened. In reporting the presence of flat feet a careful estimate of the degree of flattening, as first, second, or third degree, will be made and reported, as well as other abnormalities, such as eversion, rotation, etc.

- (1) All anomalies in the number, form, proportion, and movements of the extremities which produce noticeable deformity or interfere with function.
- (2) Atrophy of the muscles of any part, if progressive or if sufficient to interfere with function.
- (3) Benign tumors if sufficiently large to interfere with function.

- (4) Ununited fractures, fractures with shortening or callous formation sufficient to interfere with function, old dislocations unreduced or partially reduced, complete or partial ankylosis of a joint, or relaxed articular ligaments permitting frequent voluntary or involuntary displacement.
- (5) Reduced dislocations or united fractures with incomplete restoration of function.
- (6) Resection of a joint or amputation of any portion of a limb except fingers or toes.
- (7) Excessive curvature of a long bone or extensive, deep or adherent scars interfering with motion.
- (8) Severe sprains.
- (9) Diseases of the bones or joints.
- (10) Chronic synovitis, floating cartilage, or other internal derangement in a joint. A history of dislocated semilunar cartilage or loose body of the knee which has not been satisfactorily corrected by surgery or does not otherwise meet the specifications of Army Regulations.
- (11) Varicose veins if more than mild in degree.
- (12) Varices of any kind situated in the leg below the knee if there are associated varicose ulcers or scars from old ulcerations.
- (13) Chronic edema of a limb.
- (14) Sciatica or other chronic neuralgias.
- (15) Adherent or united fingers (webbed fingers).
- (16) Total loss of either thumb.
- (17) Mutilation of either thumb to such an extent as to produce material loss of flexion or strength of the member.
- (18) Loss of more than one phalanx of the right index finger.
- (19) Loss of the terminal and middle phalanges of any two fingers on the same hand.
- (20) Entire loss of any finger except the little finger of either hand or the ring finger of the left hand.
- (21) Perceptible lameness or limping.
- (22) Knock-knee or bowlegs if severe in degree.
- (23) Clubfoot.
- (24) Pes cavus with clawing of the toes, if more than mild or of any degree causing symptoms.
- (25) Flat foot when accompanied with symptoms of weak foot or when the foot is weak on test or painful, pronounced cases of flat foot attended with decided eversion of the foot and marked bulging of the inner border, due to inward rotation of the astragalus, are disqualifying regardless of the presence or absence of subjective symptoms.
- (26) Loss of either great toe or loss of any two toes on the same foot.
- (27) Webbing of all the toes.
- (28) Overriding of any of the toes if symptomatic or more than mild in degree.
- (29) Ingrowing toenails if severe.
- (30) Hallux valgus when sufficiently marked to interfere with locomotion or when accompanied with a painful bunion.
- (31) Bunions, if painful or sufficiently pronounced to interfere with function.
- (32) Hammertoes of such a degree as to interfere with function.

(33) Corns or calluses on the sole of the foot when they are tender or painful.

(34) Bromidrosis, if more than mild.

*n. Psychiatric disorders:*

(1) Psychoses as specified in Army Regulations.

(2) Psychoneurotic disorders as specified in Army Regulations.

(3) Character and behavior disorders as specified in Army Regulations.

*o. Neurological disorders:*

(1) Neurosyphilis of any form (general paresis, tabes dorsalis, meningovascular syphilis).

(2) Degenerative disorders (multiple sclerosis, encephalomyelitis, cerebellar and Friedreich's ataxia, athetoses, Huntington's chorea, muscular atrophies, and dystrophies of any type, cerebral arteriosclerosis).

(3) Residuals of infection (moderate and severe residuals of poliomyelitis, meningitis, and abscesses, paralysis agitans, post-encephalitic syndromes, Sydenham's chorea).

(4) Peripheral nerve disorder (chronic or recurrent neuritis or neuralgia of an intensity which is periodically incapacitating, multiple neuritis, neurofibromatosis).

(5) Residuals of trauma (residuals of concussion or severe cerebral trauma, post-traumatic cerebral syndrome, incapacitating severe injuries to peripheral nerves).

(6) Paroxysmal convulsive disorders and disturbances of consciousness (grand mal, petit mal, and psychomotor attacks, syncope, narcolepsy, migraine).

(7) Miscellaneous disorders (tics, spasmodic torticollis, spasms, brain and spinal cord tumors, operated and unoperated, cerebrovascular disease, congenital malformations, including spina bifida, if associated with neurological manifestations, meningocele, and Meniere's disease).

## **7. Training Hints for Candidates**

*a. Care of feet.*—(1) *General.*—The weaknesses or unsound conditions most often discovered in new cadets are the following:

(a) Tender feet with blister formation.

(b) Athlete's foot.

(c) Painful feet (weak feet).

1. Strain of metatarsal arch.

2. Strain of longitudinal arch.

(2) *The following general measures should be observed carefully.*—(a) The feet should be washed daily, carefully dried, and then powdered.

(b) Fresh socks should be put on each day, and if the feet perspire freely during the day, more than one change is necessary. Always wash, dry, and powder the feet before putting on fresh socks.

(c) Air the feet as often as possible.

(d) Exposure of feet to sunlight as well as walking barefoot, especially in sand, toughens the feet considerably.

(3) *Tender feet with blister formation.*—(a) As a preliminary measure, toughen the feet and care for them as described above.

(b) Make sure the socks and shoes fit properly. There should be no wrinkling of the socks, neither should they be so tight that they cramp the toes. A good test to determine that the shoes fit properly is to put them on, lace comfortably, then stand up. Test each foot separately as follows:

Stand on one foot, preferably while holding weight (60 pounds), then with thumb and forefinger grip across the broad part of the foot and try to gather leather as the thumb and finger are pinched together. If it is possible to catch hold of a wrinkle of leather the shoes are too large; if there is a noticeable give, but one is unable to grasp the leather, then the fit is good. If the thumb and finger slip off without noticeable give, the shoes are too tight.

(c) The wearing of two pairs of socks will aid materially in the prevention of blisters. The under pair should be thin, white cotton.

(4) *Treatment of blisters.*—See your physician.

(5) *Athlete's foot.*—(a) Employ all the general measures of cleanliness. Drying and powdering the feet daily will be of considerable aid in preventing spread of the infection. The fungus that causes the infection grows best in a warm, moist skin tissue. Keep the feet DRY!

(b) Make use of footbaths after bathing.

(c) Avoid using equipment of infected persons.

(d) See your physician for treatment and consequent elimination of the condition prior to the date of admittance.

(6) *Ingrowing toenails.*—Result of improper cutting of toenails. The nails should be cut straight across on line with end of toe. The edges should never be rounded.

(7) *Painful feet (weak feet).*—Those individuals who have not been accustomed to much activity on their feet will do well to begin exercising their arches in order to stand the strain of increased activity. Constant exertion of untrained muscles and ligaments supporting the arches of the feet will produce mainly two types of pain:

(a) *Pain in ball of foot* (because of break-down of transverse arch of foot).—The pain is localized usually in the center of the ball of the foot and is characterized by a burning sensation while standing and pain when the weight is placed on the foot in walking.

(b) *Pain along longitudinal arch* (result of excessive strain on foot).—This condition has feeling of sharp, knifelike, burning pain running from heel to ball of foot.

(8) Corrective exercise is extremely helpful for both of these conditions. Some corrective exercises are listed below for guidance in developing strong arches:

(a) Standing with toes on raised board (2 to 3 inches), rise slowly up on the toes, then return to starting position. Repeat several times and increase duration of exercise daily.

(b) Standing with feet parallel and about 6 to 8 inches apart, rise on toes slowly; roll on the outside of feet to heels; then slowly roll on inside of feet to toes. Resume original stance. Repeat several times, increasing duration of exercise daily.

(c) Sitting in a chair with legs extended to the front, move feet and toes slowly and under all possible muscular tension, in all directions; that is up, down, outward, inward, circularly, etc. Do this until fatigue is felt in the muscles of the legs.

(d) Lay a bath towel flat on the floor; stand on the towel with the feet on the center section of one end, the heels about 8 inches apart; turn the

ankles out so that the weight rests on the outside of the feet; then, with all toes, begin pulling the towel until it is pulled entirely in between the feet. This exercise should be performed after each bath and the number of repetitions of the exercise increased daily.

(e) Walking around a room two or three times on the outside of the feet is an exercise that will rest the arches after exercise or exertion.

*b. Legs.*—It is just as important that the legs be as well conditioned as the feet. However, all exercises that involve the feet will in turn benefit the legs, and vice versa. A few hints on conditioning the muscles of the legs and thighs are given below:

(1) The terrain at West Point and in the vicinity is mountainous, featured by sharp and long gradients. Exercise in walking and running over as nearly as similar terrain as is available to the candidate is advised.

(2) Development of the legs and wind to the point where 5 miles can be covered at double time without undue fatigue is highly desirable. It is best accomplished by beginning with a half-mile jog, and increasing the distance to the full 5 miles as the candidate's condition improves.

*c. Miscellaneous considerations.*—(1) *Meals.*—Candidates should eat as wide a variety of meats, vegetables, and fruits as the available menu permits. Such eating habits will be in keeping with the menu at the cadet mess at West Point. Avoid drinking a great deal of water, smoking, or eating candy, cookies, etc., before a meal. Drink plenty of milk. During the summer months, season food with plenty of salt to replace that lost through perspiration. On long hikes, a teaspoonful of salt in the canteen will prevent excessive thirst as well as replace that lost through perspiration.

(2) *Constipation.*—Regular body habits are the best means of preventing constipation. Develop regularity in answering nature's call. Let nothing interfere. It is important to have one good movement each 24 hours. The partaking of fluids, fruits, and vegetables freely, especially during warm months, will aid materially in preventing constipation. One should not let more than 2 days elapse without a bowel movement.

(3) *Exposure to sun.*—One should spend as much time as possible out of doors. He should condition himself to withstand long exposures to the sun and heat. A good tan is very helpful. Acquire it gradually!



