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Dean of the Academic Board was appointed, and Congress was requested to authorize a permanent deanship and 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. 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 5 June 1945, inclusive, is 15,286.

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 1946-47

1946:

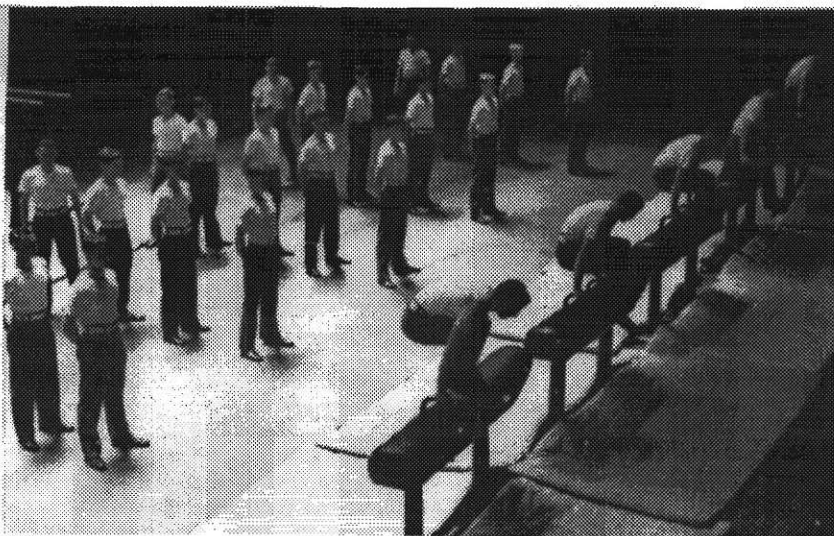
5 June-31 August.....	Practical Military Instruction.
1 July.....	New Fourth Class enters.
3 September.....	First term begins.
21 December.....	First term ends.
23-28 December.....	Term examinations.
21 December-1 January 1947.....	Christmas leave for upper classes.

1947:

2 January.....	Second term begins.
29 May.....	Second term ends.
30 May-2 June.....	Term examinations.
3 May-3 June.....	June Week.
3 June.....	Graduation.

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

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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 War Department 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 21 December, and 2 January to 30 May.

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.

Semesters

d. Disposition of cadets found deficient in academic work or conduct.—
 Cadets deficient in studies at any examination 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.

2. Program of Instruction.

Class	Subject	Attendance	Length of period (minutes)	
Fourth (first year)	Mathematics	Whole class daily	80	$\times 213$
	Military topography and graphics.	One-half class daily except Saturday.	120	$\times 91 = 10920 = 182 \text{ hrs}$
	Physical training	One-half class daily except Saturday.	45	$\times 91 =$
Third (second year)	English	Whole class Saturday	60	$\times 91$
	Languages	One-half class daily except Saturday.	60	$\times 91$
	Mathematics	One-half class daily	80	$\times 106$
	Physics	Whole class daily (33 periods)	80	$\left. \begin{array}{l} 80 \\ 80 \end{array} \right\} 80 \times 213$
	Chemistry	One-half class daily (90 periods)	80	
	Languages	One-half class daily	70	$\times 106$
	English	One-half class daily except Saturday (63 periods)	60	$\left. \begin{array}{l} 60 \\ 60 \end{array} \right\} 60 \times 91 = 5460 = 91 \text{ hrs}$
Tactics	One-half class daily except Saturday (28 periods).	60		
Second (third year)	Military topography and graphics.	One-half class daily except Saturday.	120	$\times 106 = 212 \text{ hrs}$
	Mechanics	Whole class daily	80	$\times 213$
	Electricity	Whole class daily (128 periods)	80	$\left. \begin{array}{l} 80 \\ 80 \end{array} \right\} 80 \times 24 = 1920 = 32 \text{ hrs}$
	Military instructor training.	One-half class daily (42 periods)	80	
	Military correspondence.	One-half class daily (4 periods)	80	$\left. \begin{array}{l} 80 \\ 80 \end{array} \right\} 80 \times 4 = 320 = 5\frac{1}{3}$
	Tactics	One-half class daily (15 periods)	80	
	Economics, Government, and history (History and Government).	Whole class daily except Saturday.	60	$\times 142 = 80 \times 15 = 1200 = 20 \text{ hrs}$
	First (fourth year)	Military art and engineering.	Whole class daily	80
Economics, Government, and history (Economics).		One-half class daily	70	$\times 106$
Ordnance		One-half class daily (88 periods)	70	$\times 88 = 6160 = 102\frac{2}{3}$
Military hygiene		One-half class daily (18 periods)	60	$\times 18 = 1080 = 18 \text{ hrs}$
Law		One-half class daily except Saturday.	60	$\times 90 = 5400 = 90 \text{ hrs}$
Tactics		One-half class daily except Saturday.	60	$\times 90 = 5400 = 90 \text{ hrs}$

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:

	First class	Second third, and fourth classes
Whole class daily	212	213
Half class daily	106	106
Half class daily (except Saturday)	90	91

3. Schedule of Instruction.

FOURTH CLASS

hours

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 1/8			57	76
	Solid geometry	30	1 1/8			30	40
	Plane and spherical trigonometry.	45	1 1/8			45	60
	Plane and solid analytic geometry.	72	1 1/8			72	96
	Slide rule	9	1 1/8			9	12
Military Topography and Graphics.	Military topography	13	1 1/8	38	2	51	93
	Graphics			40	2	40	80
Tactics	Physical training			122	3/4	122	92
English	Grammar	29	1			29	29
	Composition	29	1			29	29
	Readings	4	1			4	4
Modern languages	Public speaking	29	1			29	29
	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 training (twice a week).			72	1	72	72
	Parades (twice a week in September and May).			16	1	16	16
	Reviews and inspections			45	1	45	45
	Subtotal			205		205	205
	Total	408		405		813	936

284 hours

212 x 1 1/3

212
21

283

in 1965-66

Total hours in 1st yr math = 284 - 1st yr.
Total " 2nd yr math = + 141 - 2nd yr.

44

~~375~~

425 = Total math hours in core

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 1/8			40	53
	Integral calculus	66	1 1/8			66	88
	NOTE: Upper sections have 16 periods of Statistics instead of reviews in calculus.						21 1/3 hrs
Physics and Chemistry	Physics	105	1 1/8	18	2	123	176
	Chemistry	70	1 1/8	20	2	90	133
Modern Languages	Languages	106	1 1/8			106	124
Military topography and graphics	Military topography			50	2	50	100
	Graphics			41	2	41	82
English	Advanced Composition	18	1			18	18
	Literature	30	1			30	30
	Public speaking	15	1			15	15
Tactics	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 training			72	1	72	72
	Parades (twice a week in September and May)			16	1	16	16
	Reviews and inspections (once a week)			45	1	45	45
	Subtotal			205		205	205
	Total	450		362		812	1,080

141

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	Tactics and Technique	15	1 1/3			15	20
English	Military instructive training.	24	1 1/3			24	32
	Military correspondence	4	1 1/3			4	5
Economics, Government, and History.	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 training			72	1	72	72
	Parades (twice a week in September and May).			16	1	16	16
	Reviews and inspections (once a week).			45	1	45	45
	Subtotal			205		205	205
	Total	544		269		813	997

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 1/3			106	141
	Military engineering.....	103	1 1/3	3	2	106	143
Economics, Government and History.	Economics.....	54	1 1/6			54	63
	Economics of war.....	20	1 1/6			20	23
	International relations.....	32	1 1/6			32	37
Ordnance.....	Elements of Ordnance.....	70	1 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.....	Tactics.....			90	2	90	180
	Subtotal.....	493		111		604	813
	<i>After 3 p. m.</i>						
Tactics.....	Practical military training (twice a week).....			72	1	72	72
	Physical training.....			72	1	72	72
	Parades (twice a week in September and May).....			16	1	16	16
	Review and inspections (once a week).....			45	1	45	45
	Subtotal.....			205		205	205
	Total.....	493		316		809	1,018

4. Departments of Instruction

a. Mathematics.—The course includes the subjects of college algebra, solid geometry, the slide rule, plane and spherical trigonometry, plane and solid analytic geometry, differential and integral calculus, and for the more proficient students 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. 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.—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.

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

1946 WPT in hours

Math $284 + 141 = 425$ in 4 yrs

All subs in 4 yrs

$$\begin{array}{r} 936 \\ 1080 \\ 997 \\ \hline 1018 \\ \hline 4031 \text{ hrs} \end{array}$$

Phy ed 288

Mil Sci 1036

1324

Other Acad = $4031 - 1324$
= 2707