

Cadets of the first, second, and third classes not undergoing examination are allowed short leaves at Christmas, if their conduct during the preceding year has been satisfactory. Excepting these short leaves for good conduct, cadets are allowed but one leave of absence during the four years' course. This leave is granted to those cadets who have successfully completed the third class course of study, and extends from the middle of June to the 28th of August.

PAY OF CADETS.

The pay of a cadet is \$600 per year and one ration per day, or commutation therefor at 30 cents per day. The total is \$700.00, to commence with his admission to the academy. The actual and necessary traveling expenses of candidates from their homes to the Military Academy are credited to their accounts after their admission as cadets.

No cadet is permitted to receive money, or any other supplies, from his parents, or from any person whatsoever, without the sanction of the Superintendent. A most rigid observance of this regulation is urged upon all parents and guardians, as its violations would make distinctions between cadets which it is the especial desire to avoid; the pay of a cadet is sufficient for his support.

Candidates are authorized to bring with them the following articles: Hairbrush, nailbrush, toothbrush, shoebrush, comb, 8 drawers (summer), 12 handkerchiefs (white), 4 nightshirts or pajamas, 8 socks (black cotton), 6 bath towels, 6 face towels, 1 trunk, 3 undershirts (summer), whisk broom, shaving mug, winter underwear, and athletic uniforms, shoes and goods.

Cadets are required to wear the prescribed uniform. All articles of their uniform are of a designated pattern, and are sold to cadets at West Point at regulated prices.

DEPOSIT PRIOR TO ADMISSION.

Immediately after admission candidates must be provided with an outfit of uniform, etc., the cost of which is about \$160. This sum, or at least \$100 thereof, must be deposited with the treasurer of the academy before the candidate is admitted. It is best for the candidate to take with him no more money than he needs for traveling expenses and for his parents to send the required deposit by draft, payable to the Treasurer, United States Military Academy. The deposit is credited at once to the cadet's account. Upon graduation a cadet who has exercised proper economy will have sufficient money to his credit with the treasurer of the academy to purchase his uniform and equipment as an officer.

PROMOTION AFTER GRADUATION.

The attention of applicants and candidates is called to the following provisions of an Act of Congress approved May 17, 1886, to regulate the promotion of graduates of the United States Military Academy: That when any cadet of the United States Military Academy has gone through all its classes and received a regular diploma from the academic staff, he may be promoted and commissioned as a second lieutenant in any arm or corps of the Army in which there may be a vacancy and the duties of which he may have been judged competent to perform; and in case there shall not at the time be a vacancy in such arm or corps he may, at the discretion of the President, be promoted and commissioned in it as an additional second lieutenant, with the usual pay and allowances of a second lieutenant, until a vacancy shall happen.

ACADEMIC DUTIES.

There are two terms of academic instruction: September 1-December 23, and January 2-June 4. A semiannual examination is held December 26-31, and an annual examination June 6-12. At the December 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 June 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 is sometimes held. 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 six months are reported to the academic board as deficient in conduct.

THE ACADEMIC CALENDAR.

First term, September 1-December 23, embraces 85 a. m. and 80 p. m. periods.

Second term, January 2-June 4, embraces 180 a. m. and 109 p. m. periods.

Semiannual examination, December 26-31.

Annual examination, June 5-12.

A. m. periods extend from 7:55 a. m. to 12:30 p. m. except Sundays.

P. m. periods extend from 1:45 to 3:45, except Saturdays and Sundays.

HOURS OF ATTENDANCE.

7:55 to 9:20 a. m.; 9:20 to 10:45 a. m.; 10:30 to 11:30 a. m.; 11:30 a. m. to 12:30 p. m.; (dinner assembly 12:40 p. m.); 1:45 to 3:45 p. m.; 3:45 to 5:45 p. m.

In philosophy and chemistry the following arrangement will govern: Philosophy, 7:55 to 9:20; 10:30 to 11:55. Chemistry, 7:55 to 9; 10:30 to 11:55.

For laboratory work second-class sections attending at 7:55 may be held until 9:55, and sections attending at 10:30 may be held to 12:30.

Division into A and B sections will be observed in first, second and third classes.

W. Point

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Tables in error

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Vocational issue

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1915

Class.	SUBJECTS.	6 days. Includes Sat.	TIME.	Allotment of Periods.		
				Time in minutes.	Number in year.	Total number.
Fourth.	Mathematics.....	a. m. daily except alternating whole class last 66 days with surveying. During alternation Tuesday, Thursday and Saturday to mathematics.....		85	192	...
	Surveying.....	a. m. alternating whole class with mathematics last 66 days. During alternation Monday, Wednesday and Friday to surveying.....		35
	Drill regulations...	May 1 to June 4, attendance 7:55 a. m. to 12:00 noon. Theoretical examination immediately after completion of theoretical course.....		245	33	33
	English and history do.....	a. m. Saturdays during September, October, November, March, April and May.....		60	26	...
	do.....	p. m. daily.....		60	189	...
	Gymnasium.....	a. m. Saturdays for lectures in December, January and February.....		60	10	199
Third..	Mathematics.....	p. m. daily, May 1 to June 4, first hour.....		45	144	...
	French.....	a. m. daily except Saturdays Oct. 1-Apr. 30.....		60	10	...
	Drawing.....	p. m. daily except Saturdays May 1-June 4 { M., W. and F. 12 m. to 12:40 p.m.; T. and Th. 2:45 to 3:45.....		60	10	...
	Hygiene.....	a. m. daily.....		45	15	...
	do.....	a. m. daily except 1/2 class last four Mondays, Wednesdays and Fridays in September.....		60	219	219
	Drill regulations...	p. m. 1/2 class daily.....		120	94	...
Second.	French.....	p. m. 1/2 class daily alternating with drawing for 26 days beginning September 1.....		60	18	...
	Drill regulations...	a. m. 1/2 class last four Mondays, Wednesdays and Fridays in September alternating with French.....		60	6	19
	Riding.....	p. m. 1/2 class daily alternating with drawing for 24 days after hygiene.....		60	12	...
	Gymnasium.....	p. m. 1/2 class alternating with drawing after drill regulations to March 15.....		60	42	...
	Philosophy.....	p. m. after drawing (after 3:45) Nov. 1-Mar. 15, except Wednesdays.....		45	35	...
	Chemistry.....	a. m. daily except alternating 1/2 class with drill regulations, Monday to Thursday, inclusive, for two weeks beginning first Monday in April.....		85	221	221
First...	Chemistry.....	a. m. daily except alternating 1/2 class with drill regulations, Monday to Thursday, inclusive, for three weeks beginning third Monday in April.....		65	219	219
	Drawing.....	p. m. 1/2 class daily.....		120	94	188
	Drill regulations...	p. m. alternating with drawing for 24 days beginning Sept. 1.....		60	12	...
	do.....	a. m. 1/2 class alternating with philosophy and chemistry as above.....		60	10	60
	Spanish.....	p. m. 1/2 class alternating with drawing after drill regulations (September).....		60	22	...
	Riding.....	p. m. alternating with gymnasium after 3:45, Nov. 1-Mar. 15, except Wednesday.....		60	35	...
First...	Gymnasium.....	p. m. after drawing (after 3:45) Nov. 1-Mar. 15, except Wednesday.....		45	35	...
	Engineering.....	a. m. daily, except last four of eight Saturdays beginning with the first in April.....		85	221	221
	Law.....	a. m. 1/2 class daily, alternating with hippology or riding, except eight Saturdays beginning with the first in April. Entire class 7:55 to 10:30 a. m. last four of eight Saturdays beginning with the first in April.....		60	112	112
	Hippology.....	a. m. alternating with law 24 days beginning Sept. 1.....		60	12	12
	Riding.....	a. m. 1/2 class alternating with law after hippology.....		60	104	181
	do.....	Entire class Saturdays after 11:00 a. m. for 8 Saturdays beginning April 1.....		60	104	181
First...	Ordnance and gunnery.....	p. m. 1/2 class alternating with Spanish.....		60	94	...
	do.....	p. m. 10 periods for shop work, 1:45 to 3:45 between Nov. 1 and Mar. 15.....		...	10	104
	Spanish.....	p. m. alternating with ordnance and gunnery.....		60	94	176
First...	Gymnasium.....	p. m. 1/2 class after 2:45 Nov. 1-Mar. 15, except when attending ordnance shop work.....		45	33	249

Total time in class for all subj.

Math: 417 per x .85 min = 590.75 hrs

Survey: 245 x 33 = 134.75 hrs

Drill 60 x 60 = 60 hrs

Eng + Hist: 199 hrs + 30 days @ 1 hr = 229 hrs

Gym 252 x 45 = 189 hrs

French 219 hrs

Drawing 378 hrs

Hygiene 19 hrs

Riding 181 hrs

Philo 313 hrs

Chem 237.25 hrs

Spanish 176 hrs

Engin 313.08

Law 112

Hippol 13

Ordnance 104

Gunnery 2 = 3268.55

of periods

192 + 85 = 277 min = 272 hrs 1st yr

318.75 hrs 2nd yr

192 + 225 = 417

590.75 total math hrs both yrs

225 192 417

Riding
42 260
35 260
104 260
181

Math 417 per x .85 min = 590.75 hrs

144 45
10 60
15 45
35 45
35 45
38 45
277

W. Point

Astronomy is studied in the remainder of the second term. The text used are Young's "General Astronomy" and Michie and Harlow's "Practical Astronomy". The principal aim of this course, in addition to its important value in educational development, is to furnish an ample basis for the establishment of stations in explorations and surveys.

The class attends daily throughout the year, except eight days, during which half the class attends daily.

TEXT BOOKS.

Sound and Light. Gordon. General Astronomy. Young.
Mechanics. Gordon. Practical Astronomy. Michie and Harlow.
Numerous standard works on the general subjects covered by the course are available for reference.

DEPARTMENT OF MATHEMATICS.

THIRD AND FOURTH CLASSES.

The course in mathematics begins with the fourth class year and continues through the third class year. In the fourth class year, algebra is completed in alternation; first with geometry, then with trigonometry. Plane analytical geometry is begun.

In the third class year, plane and solid analytical geometry and descriptive geometry are completed in alternation. The calculus and least squares finish the course.

The course in algebra covers the entire subject as generally taught in colleges, but the student is expected to have already mastered elementary algebra to include the progressions and the solution of the quadratic equation. The course in elementary geometry includes the books that relate to the plane and those that relate to space, but the student is expected to have mastered the former. Plane and spherical trigonometry includes the complete solution of the plane and spherical triangles. The course in analytical geometry includes the discussion of the general equation of the second degree in the plane and the particular forms of the equation of the second degree in space.

Descriptive geometry includes the orthographic projections of the right line, the plane, ruled surfaces and surfaces of revolution, tangent planes and intersections of surfaces. It also takes the subjects of shades and shadows, perspective, isometric projections and spherical projections.

The course in differential and integral calculus covers the ground of the usual college text book, including briefly the subject of ordinary differential equations.

TEXT BOOKS.

Elements of Geometry. Phillips and Fisher. Elements of Analytical Geometry (Solid). Smith and Gale.
Advanced Course in Algebra. Wells. Descriptive Geometry. Church.
Quadratics and Beyond. Fisher and Schwatt. Linear Perspective. Pillsbury.
Elements of Plane and Spherical Trigonometry. Crockett. Differential and Integral Calculus. Granville.
Logarithmic Tables. Newcomb. Integral Calculus. D. A. Murray.
Conic Sections, Coordinate Geometry. C. Smith. Differential Equations. D. A. Murray.
Coordinate Geometry. Fine and Thompson. Method of Least Squares. Johnson.

DEPARTMENT OF CHEMISTRY, MINERALOGY AND GEOLOGY.

SECOND CLASS.

This department embraces two branches of physics not included in its title, namely heat and electricity. The course begins September 1 of the third academic year and extends throughout this year; exercises, recitations, laboratory work or lectures take place on all week days.

Commencing September 1, general chemistry, alternating with lessons in heat, occupy the time until the close of the term in December, recitations or other exercises being had daily.

During this term all members of the class whose progress, as shown by their recitations, warrants it, are given laboratory practice in chemistry. This practice begins with chemical manipulations and proceeds in the usual general order of elementary laboratory work. The laboratory exercises are one hour and fifty minutes long. It is generally possible to give all parts of the class some laboratory experience; the amount of this work, however, varies with the aptitude of the student from a few hours to forty-five or fifty hours.

This term closes with an examination upon the essential parts of the entire course, which all cadets who have not shown a required proficiency in daily work must take.

In chemistry the course is a descriptive general one, based upon a concise statement of the more essential principles of chemistry, and includes that class of information deemed most important to non-specialists, together with an accurate and logical treatment of many useful applications of chemistry.

The course in heat is short, but it is a comprehensive elementary course intended to embrace what is most applicable to subsequent work at the Academy and what is most useful in general education.

Beginning January 2 the daily exercises alternate between geology, mineralogy and electricity. This term also closes with an examination, covering the essential parts of the subjects studied during the term, which all cadets who have not shown a required proficiency in daily work must take.

The course in geology is a brief but scientific presentation of the essential elements of this branch of science.

The mineralogy is an eminently practical course consisting of the descriptive study and the practical determination of the important minerals. The lithological and paleontological part of geology is accompanied in study by the continued practical examination of the objects described.

The course in electricity is a brief exposition of the leading electrical phenomena and their relations to each other. It includes a study of the general principles of the subject and of the typical machines, generators, motors and transformers, together with the more important uses of electricity. The laboratory exercises give experience with a number of the machines and in the use of a great variety of apparatus employed in the numerous forms of electric measurements. In this term the laboratory work is a part of the electrical course and all cadets enter the laboratory. All laboratory work is performed under the immediate supervision of an instructor.