COURSE OF INSTRUCTION FOR CADET-ENGINEERS.

First Year—First Term.

Algebra, Geometry, French, Steam Engineering (practical and theoretical), Mechanical Drawing.

First Year—Second Term.

Analytical Geometry, Descriptive Geometry, Trigonometry, French, Steam Enginery (practical and theoretical), Mechanical Drawing.

Second Year—First Term.

Statics, Calculus (differential), Calculus (integral), Natural Philosophy (heat), Chemistry, French, Steam Enginery (practical and theoretical), Mechanical Drawing.

Second Year—Second Term.

Dynamics, Hydrostatics, Hydrodynamics, Natural Philosophy (electricity), Chemistry, French, Steam Enginery (practical and theoretical), Mechanical Drawing.

Practical exercises in infantry drill, fencing, &c., with cadet-midshipmen every day, except in the exercise of seamanship, when practical steam enginery will be substitued.

PROGRAMME OF STUDIES FOR CLASS OF CADET-ENGINEERS.

First Term: October 1 to February 1.

Three recitations daily, except Saturday, marked (1) (2) (3). (1) Between 8½ a. m. and 10½ a. m. (2) Between 10¾ a. m. and 12¾ p. m. (3) Between 2 p. m. and 4 p. m. Practical exercises in infantry drill, &c., with cadet-minshipmen, every day, except in the exercise of seamanship, when practical steam enginery will be substituted.

Semi-annual examination to be held between the 15th of January and the 15th of February. Annual examination commences on the 20th of May.

Department.	Recitations.	Subjects.
Second Class—First year.		
Mathematics	[M. T. W. Th. F.] (1)	Algebra (Davies' University).
French	[T. F.] (2)	Geometry (Davies' Legendre).
Steam Enginery	[M. W.] (2) [Th. F.] (3)	Vannier's Method.
	[T.] (3) [Th.] (2) [S.] (1)	Mechanical Drawing (Warren's Elements).
	[M. W.] (3)	Text from Bourne and King.
		Practical instruction.

Second Term: February 1 to June 1.

Three recitations daily, except Saturday, marked (1) (2) (3). (1) Between 8½ a. m. and 10½ a. m., except Monday, when it will be between 9 a. m. and 11 a. m. (2) Between 10¾ a. m. and 12¾ p. m., except Monday, when it will be between 11 a. m. and 12.55 p. m. (3) Between 2 p. m. and 4 p. m. Practical exercises in infantry drill, &c., with cadet-midshipmen, every day, except in the exercise of seamanship, when practical steam enginery will be substituted.

Semi-annual examination to be held between the 15th of January and the 15th of Febrnary. Annual examination commences on the 20th of May.

Department.	Recitations.	Subjects.
Second Class—First year.		
Mathematics	[M. T. W. Th. F.] (1)	Algebra (first hour).
		Trigonometry (first hour).
		Analytical Geometry (first hour).
French	[M. W.] (2)	Descriptive Geometry (second hour).
Steam Enginery	[M. Th.] (3) [S.] (1)	Fasquelle's Grammar.
	[T. F.] (2)	Practical Instruction.
	[T. W. F.] (3) [Th.] (2)	Text from Bourne and King.
		Mechanical Drawing. (Warren's Elements).

REGULATIONS

FOR THE

APPOINTMENT OF CADET-ENGINEERS IN THE NAVY.

I. In pursuance of the third and fourth sections of an act passed at the first session of the Thirty-eighth Congress, approved July 4, 1864, "*To authorize the Secretary of the Navy to provide for the education of naval constructors and engineers, and for other purposes,*" and of the second section of an act passed at the first session of the Thirty-ninth Congress, approved March 2, 1867, entitled "*An act to amend certain acts in relation to the Navy,*" applications will be received by the Navy Department for the appointment of cadet-engineers.

II. The application is to be addressed to the Secretary of the Navy, and can be made by the candidate, or by any person for him, and his name will be placed on the register. The registry of a name, however, gives no assurance of an appointment, and no preference will be given in the selection to priority of application.

III. The number of cadet-engineers is limited by law to fifty. The candidates must not be less than eighteen nor more than twenty-two years of age; he will be required to certify *on honor*, to his precise age, to the Academic Board, previous to his examination, and no one will be examined who is over or under the prescribed age. His application must be accompanied by satisfactory evidence of moral character and health, with information regarding date of birth and educational advantages hitherto enjoyed. Candidates who receive permission will present themselves to the Superintendent of the Naval Academy between the 15th and 25th of September, for examination as to their qualifications for admission.

IV. The course of study will comprise two academic years. All cadets who graduate will be warranted as assistant engineers in the Navy. The pay of a cadet-engineer is the same as that of a cadet-midshipman.

V. The academic examination previous to appointment will be on the following subjects, namely: *Arithmetic*; the candidate will be examined in numeration and the addition, subtraction, multiplication, and division of whole numbers, and of vulgar and decimal fractions; in reduction; in proportion or rule of three, direct and inverse; extraction of square and cube roots; in *Algebra* (Bourdon's), through equations of the first degree; in *Geometry* (Davies's Legendre), through the plane figures; *Rudimentary natural philosophy; Reading;* he must read clearly and intelligibly from any English narrative work, as, for example, Bancroft's History of the United States; in *writing* and *spelling;* he must write from dictation, in a legible hand, and spell with correctness, both orally and in writing; in English *grammar* and English *composition* he will be examined as to the parts of speech, the rules connected therewith, and the elementary construction of sentences, and will be required to write such original paragraphs as will show that he has a proper knowledge of the subject. The candidate will also be required to exhibit a fair degree of proficiency in pencil-sketching, and to produce satisfactory evidence of mechanical aptitude. Candidates who possess greatest skill and experience in the practical knowledge of machinery, other qualifications being equal, shall have precedence for admission.

VI. Any of the following conditions will be sufficient to reject a candidate:

Feeble constitution, permanently impaired general health, decided cachexia, all chronic diseases or results of injuries that would permanently impair efficiency, viz:

1. Infectious disorders.
2. Weak or disordered intellect.