
U. S. INFANTRY AND CAVALRY SCHOOL.

FORT LEAVENWORTH, KANSAS, AUGUST 1, 1893.

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E. F. TOWNSEND,

*Colonel 12th **Infantry,** Commandant.*

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ANNUAL REPORT.

(6 ENCLOSURES.)

U. S. INFANTRY AND CAVALRY SCHOOL.

FORT LEAVENWORTH, KANSAS, *August 1st*, 1893.

General :

I have the honor to submit my Annual Report of the operations and wants of the U. S. Infantry and Cavalry School for the year ending June 30, 1893.

This period covered the second year of the Student class which entered September 1, 1891, and which was graduated June 16, 1893.

The course of study began September 1, 1892, and continued steadily throughout the year. Of the thirty-six (36) officers comprising the class as it began its studies in the first year's course, thirty-three (33) remained to the end; one (1) was ordered to duty as an assistant instructor at the Military Academy, West Point, and two (2) were relieved on account of ill-health, or defective eye-sight. Of the thirty-three (33) who continued through the entire course, but one (1) 2nd Lieutenant George W. Martin, 18th Infantry failed to graduate. A few others whose examinations at various times were declared by the School Staff to be unsatisfactory, were upon a subsequent examination, as provided by Par. 48 of the School Regulations declared proficient.

In the case of Lieutenant Martin I am satisfied his failure is due to a defective early education and his age at

admittance being too advanced to admit of a methodical application to his studies. It is with great pleasure that I have to state that every member of the class who reported to me March 1, 1891 for preliminary instruction, (excepting Captain C. B. Thompson A. Q. M., who was relieved before the commencement of the regular course) succeeded in graduating, and in most cases with an excellent standing, thus proving beyond a doubt, the great value of this preliminary course to the officer whose previous knowledge of the higher mathematical branches may have been defective. It is to be hoped that the experiment may be equally successful with those members of the incoming class who have already reported for similar instruction.

It is with great satisfaction that I can certify to the exceptionally high standard of efficiency attained by the last class, the first four members of which reached an average of over 98 per cent. for the two years' course of study, and the next of over 97 per cent.

I would therefore recommend that the following named officers, five in number, be declared " Honor Graduates " of the U. S. Infantry and Cavalry School class of 1893, and so entered upon the Army Register, viz :

1. 2nd Lieutenant P. D. Lochridge, 2nd Cavalry,
2. 1st Lieutenant M. J. O'Brien, 5th Infantry,
3. 2nd Lieutenant S. H. Elliott, 5th Cavalry,
4. 2nd Lieutenant T. H. Slavens, 4th Cavalry,
5. 1st Lieutenant A. L. Parmerter, 21st Infantry.

1st Lieutenant James T. Anderson, 25th Infantry, notwithstanding severe illness which required him to be absent on sick leave for several months, succeeded in keeping up with his class and finally passed all the required examinations with credit.

The graduating exercises took place in the Post Chapel and were substantially the same in character as in June 1891. It was greatly regretted that no Board of Visitors was present on this occasion as heretofore.

The following is a synopsis of the work in the different departments, for further particulars of which reference is invited to the reports of the Instructors herewith enclosed.

DEPARTMENT OF MILITARY ART.

This department has as heretofore been under the charge of Lieutenant Colonel Jacob Kline 9th Infantry, assisted by Captain G. S. Wilson, 12th Infantry, Captain W. A. Shunk, 8th Cavalry, and 1st Lieutenant C. H. Barth, 12th Infantry.

It has fully maintained during the past year its former high reputation. The instruction has been confined to the study of Hamley's Operations of War, as well as the practical solution of minor tactics.

There will be an entire change in the corps of instructors in this department during the coming year. Lieutenant Colonel Kline, who for a number of years has with marked ability filled the position of head of the department, has been relieved from further duty at the School. He will be succeeded by Captain A. L. Wagner, 6th Infantry. Captain Shunk having also completed a four years' tour has been relieved and will be replaced by 1st Lieutenant E. Swift, 5th Cavalry. Captain Wilson will assume the duties of assistant instructor in the Department of Infantry, and 1st Lieutenant Barth has been relieved from further duty in the School, having been appointed Adjutant of his Regiment. These officers will be replaced respectively by 1st Lieutenants Carl

Reichmann, 9th Infantry, and M. J. O'Brien, 5th Infantry.

DEPARTMENT OF INFANTRY.

This department has also been under the charge of Lieu tenant Colonel Kline, assisted by Captains S. M. Swigert, 2nd Cavalry J. F. Stretch, 10th Infantry, and James For- nance, 13th Infantry. Captain Swigert will be continued on duty in the departmen t of Cavalry and will be succeeded by Captain G. S. Wilson, 12th Infantry, in the Department of Infantry. The instruction in this department *has* been con- fined to the study of Mayne's work on "Fire Tactics" and the "Drill Regulations." With the new class Mayne's book will be superceded by Batchelor's "Fire Discipline."

DEPARTMENT OF CAVALRY.

This department has been under charge of Major C. C. Carr, 8th Cavalry, assisted by Captains Francis Moore, 9th Cavalry, J. B. Babcock, 5th Cavalry, and S. M. Swigert, 2nd Cavalry. The first two were separated from the School, Captain Moore by promotion, and Captain Babcock by trans- fer to Washington on special duty. They were succeeded by Captain E. P. Andrus, 5th Cavalry, and 1st Lieutenant Thomas Cruse, 6th Cavalry. Captain Andrus has since been transferred to the Department of Texas, and it is my intention to detail Captain W. H. Carter, 6th Cavalry, in his stead. The assistants in this department will then consist of Captains Swigert, 2nd Cavalry, Carter, 6th Cavalry, and 1st Lieuten- Cruse, 6th Cavalry.

The instruction in this department has consisted of the study of Dwyer's Bits and Bittings, a subject which is very extensive and has been thoroughly taught.

DEPARTMENT OF ENGINEERING.

This very important department has been under the charge of Captain William D. Beach, 3rd Cavalry, who has shown the greatest possible interest in his work. That the result has been eminently successful, is conceded by all who have observed his constant efforts. Practical work in this department has been its principal feature and has been most successfully carried out. He has been most ably assisted by 1st -Lieutenants E. A. Root, 19th Infantry, and J. T. Haines 5th Cavalry. A further amplification of this course is under consideration and will be accomplished if circumstances admit.

The department needs additional instruments occasioned by the large increase in the membership of the incoming student class. A requisition for these instruments has already been forwarded. It is my intention to introduce in this course some instruction in the use of High Explosives, using the work of Lieutenant Willoughby Walke, 5th Artillery for this purpose.

There will be a change in the list of assistant instructors in this department, 1st Lieutenant J. T. Haines, 5th Cavalry, being relieved, and 1st Lieutenant W. C. Wren, 17th Infantry, and 2nd Lieutenant T. H. Slavens, 4th Cavalry, being ordered to duty therein.

DEPARTMENT OF LAW.

The course in this department under the able supervision of Captain J. M. J. Sanno, 7th Infantry, has been most satisfactory to me in every respect, every branch required by the School Regulations having been fully covered. In view of the transfer of Captain E. P. Andrus, 5th Cavalry, to an-

other Post, and of 1st Lieutenant Thomas Cruse, 6th Cavalry, to the Department of Cavalry, who have been assistant instructors' in this department, I propose to detail in this branch 1st Lieutenants C. W. Abbott Jr., 12th Infantry, and F. G. Hodgson, 6th Cavalry. These officers with 1st Lieutenant C. W. Penrose, 11th Infantry, will constitute the corps of assistant instructors in this department.

DEPARTMENT OF MILITARY HYGIENE.

Major John Brooke, Surgeon U. S. Army, has had charge of this part of the course which he succeeded in making very attractive to the members of the student class. As will be seen by his report, he suggests that there be added to this branch a brief course on the subject of the transportation of wounded in time of war. This suggestion I will endeavor to carry out should time permit.

It is gratifying to note that a number of new text books prepared by officers connected with the Infantry and Cavalry School have received the approval of the War Department and have been adopted for the use of the Army. They will be used as text books in the course of study for the next class. Works on Field Engineering, Surveying and Topography are also in course of preparation by the instructors in the Department of Engineering, and will be ready in due time.

In the month of January 1893, was completed a handsome three-story brick building, erected to accommodate unmarried officers.

This was at once fully occupied by twenty-four (24) officers, each having two rooms and bath room. The pressure for quarters was relieved immediately, though there are still buildings used as quarters which are highly unsanitary

and should be replaced by others at the earliest practicable moment.

Within a few weeks the Subsistence Depot of Fort Leavenworth has been discontinued and the building turned over to the Post, to be used in connection with the School. By means of this I will be enabled to obtain the use of a fine brick building contiguous to the present Sherman Hall (the Academic building) and which only needs remodeling of the interior to render it suitable for school purposes for many years to come, even though the number of students be largely increased. To this end I directed the instructor in the Department of Engineering to submit plans for the necessary alterations. These have been made and are now in the hands of the Post Quartermaster, Captain F. H. Hathaway, A. Q. M., to submit an estimate of the cost.

The plans and estimates will be forwarded to Headquarters of the Army as soon as I receive them from the Quartermaster.

I earnestly urge that this work be done as soon as possible as the new building is greatly needed even now, due to the increase in number of the incoming over former classes, which necessitates *an* increase in the number of sections.

Suitable rooms are also required for the course in Photography, and for the care of the many delicate instruments in the Engineering Department. All this can be secured by the alterations in the buildings referred to.

I would also respectfully recommend that the yearly appropriation of \$1,500 be increased to \$5,000 or at least to \$3,500. It is with great difficulty that the usual sum can be made to cover all the necessary expenses of the School, and leave a respectable amount to devote to the increase of the Library. An increase in our printing facilities is very much needed. The printing of original papers and translations for the use of the School, Instructors and Students is being constantly required, and very valuable productions have already appeared through the School press, but it is a difficult task on account of the limited quantity of material at hand. An increase in the yearly appropriation would obviate this difficulty.

The services of a permanent clerk are very much needed. The present clerk is an enlisted man, liable to be transferred at any time, should the Company to which he belongs, be ordered elsewhere. It is respectfully requested that Sergeant P. F. Hoffman, Company H. 14th Infantry, the clerk above referred to, who has proved himself to be most efficient, be transferred to the General Service and ordered to report to me for duty. In connection with this I refer to the report of the secretary of the Infantry and Cavalry School herewith enclosed.

It gives me great pleasure to testify to the willing cooperation of all my assistants in forwarding the work of the School, and ensuring its success, and in this none has more

thoroughly devoted himself than 1st Lieutenant W. S. Scott, 1st Cavalry, the Secretary.

I am Sir:

Very Respectfully,

Your Obedient Servant,

E. F. TOWNSEND,

Colonel 12th Infantry,

Commandant.

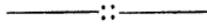
To the

Adjutant General,

U. S. Army,

Washington, D. C.

REPORT OF THE SECRETARY.



U. S. INFANTRY AND CAVALRY SCHOOL.

FORT LEAVENWORTH KANSAS, JULY 9, 1893.

*The Commandant U. S. Infantry and Cavalry School.**Fort Leavenworth, Kansas.*

SIR:—

I have the honor to submit the following report pertaining to the School as Secretary and Treasurer:

The following improvements and repairs have been made during the past year within the School building:

Three (3) dark rooms in the basement for use in the course of Photography. Four (4) cases with glass doors for books have been made and placed, two (2) in the library and two (2) in the small room diagonally across the hall, the latter for temporary use until more space is available for placing all books in one room. Fifty-eight (58) yards of matting has been placed on the floor of the upper hall, to replace an equal amount which had become unserviceable from use. These repairs were made by the Quartermaster's Department. The fifteen hundred dollars (\$1,500) appropriated for the School have been expended as follows:

Books for Library.	\$635.89
Periodicals for Reading Room	139.60
Instruments and material for Eng. Dept.	184.37
Repairing of Instruments Engineering Dept.	40.69
Material and Labor for Printing.	78.90
Clerical Labor, Instruments, Stationery, Etc., for offices for Commandant, Sec'y and Instructors	420.55

These expenditures have been made in compliance with regulations and orders.

There has been received for the Library in addition to books purchased, about 3,000 volumes from the War Department, principally Congressional Records, Reports and State Papers.

Under provisions of G. O. 80, of 1890, I have purchased for Officers, 1,921 volumes, (professional books) amounting to three thousand five hundred and seventy-seven and twenty-five hundredths dollars (\$3,577.25) during the year.

I would respectfully call attention of the need to the School of a general service clerk. The records should be kept systematically from year to year. At present the clerk on extra duty is liable at any time to be changed, by expiration of term of service, by transfer of his Company, etc., and this at a time when the greatest inconvenience would result.

In conclusion I wish to state that Sergeant P. F. Hoffman, Company H, 14th Infantry, my assistant, and Private Collins, Company H, 7th Infantry, who has had charge of the library, have rendered me valuable assistance by intelligent and faithful discharge of their duties.

Very Respectfully,

Your Obedient Servant,

IV. S. SCOTT,

1st Lieutenant 1st Cavalry,

Secretary.

OFFICIAL COPY:

W. S. SCOTT,

1st Lieutenant 1st Cavalry,

Secretary.

REPORT OF THE INSTRUCTOR, DEPARTMENT OF MILITARY ART.



U. S. INFANTRY AND CAVALRY SCHOOL.

Department of Military Art.

FORT LEAVENWORTH, KANSAS, JUNE 29th, 1893.

To the

Secretary U. S. Infantry and Cavalry School,

Fort Leavenworth, Kansas.

SIR: ^s

In compliance with orders, I have the honor to report that the instruction in the Department of Military Art for the year closed was by Lectures and in Hamley's Operations of War ; and for the Department of Infantry, Drill Regulations and Fire Tactics.

A report of the Annual Examination was made, showing the relative standing in these studies.

The essays submitted, the examination questions and subjects have been filed in your office.

Very Respectfully,

Your Obedient Servant,

JACOB KLINE,

Lieut. Colonel 9th Infantry.

Instructor.

OFFICIAL COPY:

W. S. SCOTT,

1st Lieutenant 1st Cavalry,

Secretary.

REPORT OF INSTRUCTOR, DEPARTMENT OF ENGINEERING.



U. S. INFANTRY AND CAVALRY SCHOOL.

Department of Engineering.

FORT LEAVENWORTH, KANSAS, JUNE 28th, 1893.

The

Secretary U. S. Infantry and Cavalry School,

Fort Leavenworth, Kansas.

SIR:—

In accordance with Par, 55, Regulations U. S. Infantry and Cavalry School, I have the honor to submit my annual report, as follows :

Work in this department since my last report has been apportioned as shown below.

1st half of 2nd term	}	Lectures-i.
		Recitations-24 (field engineering).
		Drawing-9 half days.
.	}	Practical work-20 half days (field eng'ring and recon'snce).
		Examination--2 half days--(written).
2nd half of 2nd term	}	Lectures with questions on same-7 (photography).
		Recitations-20 (building superintendence).
		Practical work (photography and reconnais'snce) 27 half days.
		Examination (oral)--4 half days.

August 1892 was devoted to the Field Telegraph, Signaling and use of Range Finders.

It will be noticed that over 40 per cent. of the time assigned to Engineering during the past year has been devoted to practical work (exercises in application, Par. 31, Regulations U. S. Infantry and Cavalry School) and it is to this that I particularly wish to invite attention. It has been the endeavor to devote all available time to perfecting the class in road and position sketching, (the former mounted, using the Cavalry sketching case) and the results have been most

gratifying. During the past year and a half, student officers have made over 500 sketches of this nature, and towards the last, have, with few exceptions, shown marked proficiency in this most important branch. These sketches were in colored pencil and included the principal military features of from 5 to 9 miles of road, or of a defensive position a mile in length. The time allowed for each sketch, including report, being but $7\frac{1}{2}$ hours. It is hoped to extend this part of the course during the ensuing two years by using a portable camera along with the sketching case, in order to show important landmarks and **such** underfeatures as cannot be readily explained by sketch or report. It is purposed to show to the class, by means of the stereopticon, views taken with the camera, as well as views of some of the maps made; the object being, a more general criticism before the class of the work submitted, with a view to more rapid improvement.

More room for the Department of Engineering is considered a necessity in order that the next class, which numbers 48, may be given proper instruction. The present instrument room is totally inadequate for the purpose, and a suitable lecture room, from which light can be excluded is much needed in this department, as well as in the Department of Cavalry, so as to have the advantage of the stereopticon for lectures.

A number of additional instruments will be much needed in September, a list of the same having already been submitted.

The work of compiling a Field Engineering Manual and **also** a text book on Surveying and Military Topography, which it is believed will be better adapted to the use of the department and to our service generally than the ones in use has been undertaken by instructors in this department. The

work is necessarily slow owing to interruptions but it is hoped that another year will see them completed.

The work done during the past year by my assistants, 1st Lieutenant E. A. Root, 19th Infantry, and 1st Lieutenant J. T. Haines, 5th Cavalry, has been continuous, and in the highest degree satisfactory to me.

Very Respectfully,

Your Obedient Servant,

W. D. BEACH,

Captain 3rd Cavalry.

Instructor.

OFFICIAL COPY:

W. S. SCOTT,

1st Lieutenant 1st Cavalry,

Secretary.

REPORT OF THE INSTRUCTOR, DEPARTMENT OF CAVALRY.

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-U. S. INFANTRY AND CAVALRY SCHOOL.

Department of Cavalry.

FORT LEAVENWORTH KANSAS, JUNE 29th, 1893.

The Commandant U. S. Infantry and Cavalry School.

Fort Leavenworth, Kansas.

SIR:—

In obedience to instructions of the Commandant of the School, I have the honor to submit the following report of the work done in the Department of Cavalry during the past year:

The time allotted for theoretical instruction has been entirely devoted to the subject of Bits and Bitting, Seats and Saddles, a general title embracing almost everything connected with the rational handling of cavalry horses, the fitting and adjusting of the equipment, the packing of saddles, the gaits of horses as affected by saddling, bitting, packing, etc.

It is not perhaps too much to say in reference to these subjects that an ignorance of them, or a failure to enforce a strict application of the proper principles which should govern them is, in a great measure, the cause of a great many of the difficulties experienced in training our Cavalry horses on the drill ground, and also the immediate cause of the condemnation of many cavalry horses every year which might, under other circumstances, be continued in the service to perform the duties for which they were purchased.

The recitations and examination of the officers undergoing instruction leave no doubt that they are thoroughly imbued with correct ideas in regard to the subjects named and, if encouraged and assisted, on joining their proper commands, to make a practical application of their knowledge the army will be greatly benefited.

During the School term Captain Francis Moore, 9th Cavalry, and Captain John B. Babcock, 5th Cavalry, assistant instructors in the department were both relieved ; the first, by reason of his promotion, the second on account of having been detached from the command-after some years of exceedingly efficient service as instructor.

Their places were filled by Captain E. P. Andrus, 5th Cavalry, and 1st Lieutenant Thomas Cruse, 6th Cavalry, who have both given entire satisfaction in the performance of the duties assigned them.

It is expected and believed that in the instruction of the next class improved facilities for teaching the anatomy of the horse will be available, as the Department of Engineering is

now supplied with the means of making slides to be used in the stereopticon referred to in my report of last year.

Very Respectfully,

Your Obedient Servant,

C. C. C. CARR,

Major 8th Cavalry.

Instructor.

OFFICIAL COPY :

W. S. SCOTT,

1st Lieutenant 1st Cavalry,

Secretary.

REPORT OF INSTRUCTOR, DEPARTMENT
OF LAW.



U. S. INFANTRY AND CAVALRY SCHOOL.

Department of Law.

FORT LEAVENWORTH, **KANSAS**, **JULY** 1st, 1893.

The Secretary U. S. Infantry and Cavalry School,

Fort Leavenworth, Kansas.

SIR: ^{es}

In obedience' to instructions I have the honor to submit the following report relative to the course pursued in this department during the past academic year terminating May 31, 1893.

The first half of the term, commencing November 1, 1892, the whole class took up the subject of Military Law, Lieutenant Colonel Winthrop's "Abridgment" being used as a text book. To insure a recitation by each student officer on the lesson for the day, the class was divided into six sections, each assistant instructor having charge of two sections.

The recitations continued daily until December 1, and were attended by myself to see that the course prescribed was gone over thoroughly in the different sections and so conducted as tended to obtain the best results without spending too much time in discussion of doubtful questions or opinions on mooted points.

The time allotted for the period referred to was devoted to twenty-two recitations on the first sixteen chapters of the text, and embraced the following subjects:

Constitutional Provisions, The Written and Unwritten Military Law, History of the Court-Martial, The Constitution and Composition of General Courts-Martial, The Jurisdiction of General Courts-Martial, The Procedure of General Courts-Martial, The Charge, Assembling and Opening the Court, The Judge Advocate, Challenges, Organization, Arraignment, Pleas and Motions, The Trial, Evidence, The Finding and Sentence and Punishment.

On January 8, 1893, the semi annual examination was held. Four student officers failed to pass a satisfactory written examination on the foregoing subjects. The failure of three of these officers was not due to a want of knowledge, but entirely to carelessness and neglecting to properly consider the value attached to each question which indicated clearly that something more than a mere generalization was required, a fact well known and always insisted upon in the section room.

On January 23, 1893, Winthrop's Abridgment of Military Law was again taken up at chapter 17, and completed in twenty-five recitations, followed by five recitations on G. O. No. 100, A. G. O., 1863, and G. O. No. 3, A. G. O.,

1892, making a total of thirty recitations for the second half term.

An oral examination in Military Law was held on June 12 and 13, when the whole class passed a most satisfactory examination and showed a degree of proficiency sufficient to convince the board that the course had in no wise been slighted.

For this examination twenty-three subjects were carefully prepared, each student officer as called selected by lot his subject from the instructor's table and as soon as he had acquainted himself with the contents of his paper was called upon to recite? after which he was asked six or more questions concerning some portion of G. O. No. 100, A. G. O., 1863 and G. O. No. 3, A. G. O., 1892.

The sections were under charge of the following assistant instructors and it gives me great pleasure to bear testimony to the zeal and efficiency displayed in the discharge of their duties :

Captain E. P. Andrus, 5th Cavalry,
 1st Lieutenant Thomas Cruse, 6th Cavalry,
 1st Lieutenant C. W. Penrose, 11th Infantry.

I am indebted to Lieutenants Cruse and Penrose for most valuable assistance in the preparation of papers during the course and particularly to Lieutenant Cruse for his synopsis of the text book which enabled the department to maintain a uniformity in the different sections besides materially assisting the student officer in preparing his daily recitations, which the members of the class greatly appreciated.

The course in Military Law proper, just passed over, embraced all the subjects set-forth in orders of the War Department and was much more extensive than the course pursued by the preceding class. I am of the opinion its

scope is about what it should be, considering the time allotted.

Very Respectfully,

Your Obedient Servant,

J. M. J. SANNO,

Captain 7th Infantry,

Instructor .

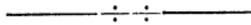
OFFICIAL COPY :

W. S. SCOTT,

1st Lieutenant 1st Cavalry,

Secretary.

REPORT OF INSTRUCTOR, DEPARTMENT
OF MILITARY HYGIENE,



U. S. INFANTRY AND CAVALRY SCHOOL.

Department of Military Hygiene.

FORT LEAVENWORTH, KANSAS, JULY 2nd, 1893.

The Secretary U. S. Infantry and Cavalry School,

Fort Leavenworth, Kansas.

SIR:—

I have the honor to report for the information of the Commandant that the instruction in the department of Military Hygiene, during the past year, consisted of ten lectures on military hygiene, with nine recitations. The interest manifested by the student class was very marked, and the degree of attention given is shown by the results of the examination.

I would suggest that there be added to the programme of this department a brief course on the subject of the transportation of wounded in time of war. This is a duty which may fall to any officer during actual warfare; and the instruc-

tion necessary for such emergencies can be given in such a form as to be very concise, and occupy but a limited amount of time.

Very Respectfully,

Your Obedient Servant,

JOHN M. BROOKE,

Surgeon U. S. Army,

Instructor.

OFFICIAL COPY :

W. S. **SCOTT,**

1st Lieutenant 1st Cavalry,

Secretary.

ERRATUM. The heading on page 14 should read "Report of the Instructor, Departments of Military Art and Infantry."