

The University Record
of the
University of Florida

Bulletin of the
Division of Military Science and Tactics

With Announcements for the Year
1930-31



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The University Record of the University of Florida is issued once every month except June, when it is issued six times.

The Record comprises:

The Reports of the President and the Board of Control, the Bulletin of General Information, the annual announcements of the individual colleges of the University, announcements of special courses of instruction, and reports of the University Officers.

These bulletins will be sent gratuitously to all persons who apply for them. The applicant should specifically state which bulletin or what information is desired.

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FACULTY OF THE DIVISION OF MILITARY SCIENCE AND TACTICS.

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JOHN W. BOOTH, Private 1 cl, Field Artillery.
McKINLEY CRISWELL, Private 1 cl, Field Artillery, Horseshoer.
JOHN A. DUKE, Private 1 cl, Field Artillery, Saddler.
DAVID H. RHODES, Private 1 cl, Field Artillery.
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LEONARD HOLLEY, Private, Field Artillery.
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FRANK E. PALMER, Private, Field Artillery.
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HARRIS S. THOMAS, Private, Field Artillery.
HENRY E. THROWER, JR., Private, Field Artillery.

GENERAL INFORMATION

RESERVE OFFICERS' TRAINING CORPS.

AUTHORITY.

Under the terms of the Land Grant Act of 1862 the State received certain grants of Federal lands, the income of which must be devoted to the maintenance of colleges of agriculture and mechanical arts, including a course in military training. The National Defense Act of June 3, 1916, as amended by the Act of June 4, 1920, established the Reserve Officers' Training Corps and authorized the Secretary of War to provide the necessary instructors and equipment and to prescribe a standard course of instruction. The War Department has established at the University of Florida both an infantry and a field artillery unit.

OBJECTIVE.

These units are authorized by Congress for the purpose of providing a corps of reserve officers of the U. S. Army, which, in case of a major emergency, will constitute the officer personnel of our civilian Army. It is a part of the approved military policy of the United States to maintain a small regular army. When, however, the nation is threatened with war, and large additional armed forces are raised, it will be necessary that this force be provided immediately with trained officers. Future wars will be so sudden that the long period that we had before entering the World War, in which to secure officers from training camps, will not be available. A study of our military history shows that many lives have been sacrificed in the early stages of our wars solely because of the scarcity of trained officers capable of leading our men in combat. Therefore, our Government is attempting to rectify this condition by providing an officers' personnel in advance, from college graduates, so that in case of emergency they may immediately step into positions of leadership and acquit themselves creditably.

EQUIPMENT.

The War Department maintains at the University of Florida a personnel of thirty-three members of the regular army and equipment valued at nearly \$400,000. Included in this equipment is a complete battery of 75mm. horse-drawn field artillery, clothing and equipment for a battalion of infantry, and clothing and partial equipment for a battalion of field artillery. The University of Florida has provided offices, classrooms, ample storage space, and excellent drill and maneuver grounds. A modern stable has recently been completed for the field artillery, and work is under way for the improvement of drill and parade grounds, and for the construction of a polo field.

ADMISSION.

The Reserve Officers' Training Corps course of instruction covers four years, the first two of which are compulsory. Students who register as freshmen or sophomores in the colleges of Agriculture, Engineering, Pharmacy, Teachers, and in the course leading to the degree of Bachelor of Arts in the College of Arts and Sciences are assigned to the field artillery unit. Students who register as freshmen or sophomores in the colleges of Architecture, Commerce and Journalism, in the course leading to

the degree of Bachelor of Science in the College of Arts and Sciences, and all irregular students, are assigned to the infantry unit.

BASIC COURSE. .

The Basic Course in both the field artillery and the infantry covers the first two years, and is usually pursued during the freshman and sophomore years. Satisfactory completion of it is required of all students unless they are exempt on reasons given under Exemptions. The object of the Basic Course is to qualify the student to perform the duties of a non-commissioned officer. The first year of the course is designed to qualify him for the duties of a private.

THE ADVANCED COURSE.

Students who complete the Basic Course and are selected by the Professor of Military Science and Tactics and the President of the University may elect the Advanced Course, which course may lead to a commission in the Officers' Reserve Corps of the U. S. Army. Students registered in this course are required to carry it to completion, and during the period are paid \$9.00 per month by the War Department. An advanced course summer-camp is compulsory, usually between the junior and senior years. The War Department pays all expenses for the camp, including mileage, rations, medical attendance, clothing, and laundry service, and in addition the pay of the seventh grade, United States Army.

EXEMPTIONS.

Exemption from military training at the University of Florida is granted in the following cases:

(1) Students who are twenty-one years of age at the time of first entering upon their college work at the University of Florida.

(2) Students unable to drill by reason of physical disability, as certified to by the University Physician.

(3) Students whose military work elsewhere is accepted by the Professor of Military Science and Tactics as fulfilling the requirements.

(4) Students admitted to the University of Florida holding a commission in the Officers' Reserve Corps of the United States Army.

(5) Students who enter the University with advanced standing from other accredited institutions. Students who enter with one year of college work are required to take only one year of the Basic Course, while students who have had two years or more of college work are exempt from Military Science.

(6) Students taking courses of one year's duration, or less.

(7) Students who are citizens of foreign countries.

Students exempt from Military Science for any reason whatever must, in order to receive a degree, offer an equal number of hours of other course work in lieu of Military Science. Choice of these courses must in all cases be approved by the dean of the college in which the student is registered.

CADET ORGANIZATION.

REGIMENT.

The R. O. T. C. at the University of Florida is organized into a cadet regiment of two battalions, one made up of infantry students and the other of artillery students. The practical instruction conducted in the open is carried on through this organization. Much of the actual instruction is done by upper classmen, thereby affording them opportunities in the art of command and leadership. The Regimental Headquarters consist of a Cadet Regimental Colonel and Staff. Each battalion is commanded by a Cadet Lieutenant Colonel with appropriate Staff.

INFANTRY BATTALION.

The infantry battalion is organized into three companies, A, B, and C, of freshmen, and one company, D, of upper classmen. The outstanding cadet leaders are assigned as the officers of these organizations. The freshmen companies cover close and extended order drill, tent-pitching, scouting and patrolling, and combat principles to include the platoon. To Company D are assigned all upper classmen not assigned to the other companies, and those freshmen who have had some prior military training. The company reviews close and extended order drill and ceremonies, and specializes in the use of the infantry weapons. The course covers machine guns, automatic rifle and howitzer company weapons, scouting and patrolling, musketry and combat principles.

ARTILLERY BATTALION.

The field artillery battalion is organized into four batteries, A, B, C, and D. The instruction is uniform for each battery. Upper classmen are assigned as leaders, the same as for the infantry. The work is so arranged within each battery that the program of instruction is progressive throughout the four years, as follows:

Freshmen: Subjects pertaining to battery equipment and material, and covering in general the duties of cannoneers.

Sophomores: Subjects pertaining to battery transport (animal) and covering in general the duties of drivers. In addition, instruction in communications, fire-control instruments, and the general duties of members of the battery detail.

Juniors: Artillery technique—gunnery, preparation of fire, conduct of fire, and the use of the battery detail in the reconnaissance, selection, and occupation of a position. This year's course will prepare the student to conduct the fire of a battery at service practice during the Advanced Camp.

Seniors: The tactical employment of field artillery and training in leadership and command.

UNIVERSITY BAND.

The R. O. T. C. takes special pride in the eighty-piece University Band. This band is supervised by the Director of Music, and receives every encouragement from the R. O. T. C. in the matter of uniforms, instruments, and hours for practice. Members of the R. O. T. C. who are selected by the Director of Music for assignment to the band are excused from the dismounted drills in both the infantry and artillery battalions

There is organized at the University of Florida, Company H, Second Regiment, of the national honorary fraternity of Scabbard and Blade. The membership of this fraternity is made up of the cadet commissioned officers of the R. O. T. C. It renders valuable services in the encouragement of efficient cadet leadership.

AWARDS AND PRIZES.

The R. O. T. C. Regiment is recognized as one of the outstanding units in the entire country. The University of Florida has been rated as a distinguished college by the War Department, for many years. At the present time the R. O. T. C. enjoys the highest rating for efficiency, in both infantry and field artillery, granted by the War Department.

The State Board of Education of Florida has recognized the efficiency and valuable training given to the young men of Florida, and recently passed a resolution praising the high standard of efficiency of the R. O. T. C.

Many organizations throughout the State of Florida annually award prizes for meritorious service and leadership in the various cadet activities. Two of these are lovely silver trophies presented by the Officers' Reserve Corps, Department of Florida, to be competed for annually by the companies of the infantry battalion and the batteries of the artillery battalion.

CADET ACTIVITIES AND COMPETITIONS.

Annually in the spring a series of competitions in the various phases of drill and leadership are conducted to determine the outstanding individuals and organizations within each battalion of cadets. These military meets have aroused keen interest in the competition for leading honors. In 1930-31 it is expected to inaugurate the First Annual Military Field Meet and Horse Show. It is further expected during 1930-31 to start the game of polo on the campus, organizing, as soon as the mounts and students can be trained, an infantry and an artillery team with the view of extending it beyond the campus within the next few years.

ABSENCES.

In order to make drill and dress parade a success, students are expected to attend all formations. It is obvious that when any large number is absent, the depleted ranks materially interfere with efficient instruction, and it so happens that those present are the ones most penalized. Therefore, all absences are required to be made up before the close of each semester. Should any student be absent six times during a semester, without approval from proper authority, he will be placed on probation, and so notified. If he is absent thereafter, he will be reported to the Registrar and will be notified by him that he has been dropped from the University. Any student so dropped may have his case reviewed by the Committee on Military Affairs, but must make application for such review in person within forty-eight hours (not including Saturdays, Sundays, and holidays) from date on which he was dropped.

Absences from military class exercises are regulated the same as absences from all other class exercises.

CLOTHING AND EQUIPMENT.

GENERAL.

1. Each member of the R. O. T. C. will be held responsible for all articles of clothing and equipment issued to him. He will be required to return all such property at the proper time in good condition.

2. Whenever a student for any reason fails to return any article as directed, he will be required to pay for the same at the Business Manager's office. Failure to return property or pay for shortages will necessitate grades being withheld and refusal by the University authorities to accept the student concerned for later registration at the institution.

3. The uniform must be kept clean, neat, well-fitted, and pressed at all times. The student will pay for all cleaning, alterations, and repairs, making his own arrangements for the same. At no time will the uniform be used roughly or abused.

4. The uniform will be worn at all drill and parade formations, and upon such special occasions as the P. M. S. & T. may direct. It will not normally be worn to classes. It may be worn to classes, however, when there is insufficient time to change between class and drill formation. Whenever it is worn, it will be worn complete.

5. Articles of equipment, such as rifles, rifle and pistol belts, sabers, whistles, spurs, etc., will be issued to certain individuals for their personal use. Such articles will be signed for by the student and returned to the Military Supply Room when directed.

6. Certain articles of equipment used for training purposes, such as field equipment, pistols, sketching equipment, etc., will from time to time be issued by instructors to the student. Such equipment will be signed for by the student to the instructor and returned to him in good condition at the end of the training period or class period, as directed.

7. No part of these regulations will be construed as permitting a student, when directed to turn in any article, to keep and pay for the same. This is not authorized by the Government.

CLOTHING—BASIC COURSE.

8. The Government furnishes each student enrolled in the Basic Course of the R. O. T. C. with a complete uniform, less shoes. This consists of one overseas cap, one coat, one pair of trousers for infantry students, one pair of breeches and leggings for artillery students, one waist-belt, one black tie, one set of R. O. T. C. insignia, and one olive-drab wool shirt.

9. Each student enrolled in the Basic Course of the R. O. T. C. is required to purchase from approved stores one pair of standard regulation army shoes. No other shoe may be worn with the army uniform. The student is also required to purchase one "Gator" patch insignia, to be worn on the left shoulder of the army coat.

10. Each student enrolled in the Basic Course of the R. O. T. C. is required to pay at the time of registration the sum of one dollar. This fund, known as the Military Incidental Fund, is used to cover unavoidable losses, breakage, repairs, and replacements. It will not be applied on breakages or losses for which responsibility can be determined.

11. The uniform referred to in Paragraph 8 must last the student two years. Near the end of the second semester, the student will be required to tag the uniform and turn the same in to the Military Supply Room. During the summer, this uniform will be cleaned and renovated, and issued to the same student at the beginning of the next college year.

CLOTHING—ADVANCED COURSE.

12. A distinctive uniform and related equipment have been selected by the University for all members of the Advanced Course of the R. O. T. C. These articles are standard and official, and none others will be used. The University officials have made arrangements for the supply of these articles from the William C. Rowland Tailoring Company, the L. & L. Men's Clothing Store, and the University Book Store.

13. This uniform will consist of one coat, one pair of breeches, one shirt, one overseas cap, one black tie, one waist-belt, one pair boots for artillery students, one pair of officers' shoes and puttees for infantry students, one set of R. O. T. C. insignia, one pair of chevrons, and one "Gator" shoulder insignia. This is supplemented in the month of May of the junior year with one officer's cap, and one Sam Browne belt.

14. The cost of this uniform is approximately sixty-five dollars. The University is responsible to the firms mentioned in Paragraph 12 for the payment of all articles received and issued to students. Payments in turn will be made to the University as follows: from the Government in lieu of the uniform in kind, a commutation-value amounting to twenty dollars for each year of the two-year Advanced Course. To offset the initial expenditure, each student will pay to the University the first check received for commutation of rations.

15. The Military Property Custodian, in conjunction with the Auditor of the University, will maintain an individual clothing and equipment account for each student enrolled in the advanced Course. Each student will be credited with the amount of commutation of uniform received from the Government, and such other funds, such as commutation of rations and cash deposits, as made by the student. Each student will be charged on this account with the articles issued to him by the three firms mentioned above. A final settlement will be effected with each student whenever he terminates his work in the R. O. T. C.

16. Upon successful completion of the Advanced Course, the entire uniform and equipment mentioned in Paragraph 13, will become the property of the student. If, however, the student fails to complete the two-year course, he will be required to return the complete uniform and equipment to the University or make a settlement with the Military Property Custodian for such articles as he may wish to retain.

17. Students desiring to purchase additional new uniforms and equipment may do so by depositing the cost thereof at the Business Manager's office. Students desiring to purchase additional second-hand uniforms and equipment may do so individually, provided the articles are approved by the P. M. S. & T.

COURSES OF INSTRUCTION INFANTRY

FRESHMAN

My 101-102.—Freshmen Infantry, compulsory. (Basic) 2 hours' theory and 3 hours' practice. 4 credits. Captain Becker and 1st Lieutenant Hazlehurst.

Text: *ROTC Manual*.

THE NATIONAL DEFENSE ACT AND THE ROTC.

Orientation of the student in the provisions of the National Defense Act and the mission of the ROTC in the military system provided for in the Act. General outline of the organization of the ROTC and of the objectives of the ROTC courses; institutional regulations governing the conduct of the unit. To be given at an early period of the year. Time given to topic, two instructional hours.

MILITARY COURTESY AND DISCIPLINE

To inculcate respect for, and loyalty to constituted authority; instruction in selected extracts from the regulations, and lectures, demonstrations and practical application. Instruction to be extended in connection with the course in drill and command. Time given to topic, three instructional hours.

MILITARY HYGIENE AND FIRST AID

Instruction in personal hygiene, first aid, prevention of disease, and camp sanitation. Time given to topic, ten instructional hours.

DRILL AND COMMAND

Theoretical and practical instruction covering organization, close order drill, extended order drill, ceremonies, tent-pitching, individual equipment and combat principles. This to qualify the student to participate as a private in close and extended order drill, physical drills and ceremonies; and to inculcate precision, soldierly appearance and bearing, and the spirit of discipline. Time given topic, ninety-eight instructional hours.

RIFLE MARKSMANSHIP

Practical instruction and training in the principles of TR 150-5 with a view to forming proper shooting habits and methods in the student preliminary to and during gallery-firing; nomenclature, care and cleaning of the rifle. Time given to topic, twenty-five instructional hours.

SCOUTING AND PATROLLING

Theoretical and practical instruction in the duties of a member of a patrol and a scout in small tactical exercises. Time given to topic, twenty-two instructional hours.

SOPHOMORE

My 201-202.—Sophomore Infantry, compulsory. (Basic) 2 hours' theory and; 3 hours' practice. 4 credits. Captain Bell.

Text: *ROTC Manual*.

DRILL AND COMMAND

Review of the first year course. Additional theoretical and practical instruction to qualify the student to perform the duties of a squad-leader in close and extended order, drill and ceremonies. Time given to topic, seventy-four instructional hours.

MUSKETRY

Theoretical instruction covering the reference listed. Practical instruction by small problems and exercises in musketry using sandtable, landscape targets, and terrain with a view to training the student in conducting the fire of a squad. Time given to topic, seventeen instructional hours.

AUTOMATIC RIFLE

Practical instruction in mechanical functioning, positions, and combat use of the automatic rifle. Time given to topic, twenty-one instructional hours.

SCOUTING AND PATROLLING

Theoretical and practical instruction covering the reference listed. Especial attention to the conduct of patrols and the duties of patrol leaders and scouts. Applicatory exercises using maps, sandtable and terrain with a view to the practical training of the student in the duties of a patrol-leader. Time given to topic, twenty-four instructional hours.

COMBAT PRINCIPLES (RIFLE SQUAD)

Theoretical instruction covering the reference listed. Practical instruction on varied ground with a view to training the student to lead a squad in attack and defense and on security missions. Time given to topic, twenty-four instructional hours.

JUNIOR

My 301-302.—Junior Infantry, elective. (Advanced) 3 hours' theory and 3 hours' practice. 4 credits. Captain Morris.

Text: *ROTC Manual*.

MAP READING AND MILITARY SKETCHING (32)

Theoretical instruction necessary to qualify the students to read military maps with facility and prepare them for practical work in sketching. Applicatory exercises in map reading, visibility of points and areas; practice in making simple road and position sketches. Time given to topic, twenty-two instructional hours.

DRILL AND COMMAND

A review of the previous drill and command courses and additional theoretical and practical instruction to qualify the student to perform the duties of a sergeant of all grades in close and extended order drills, ceremonies and physical drill, and to act as an instructor of basic students at practical drill. Time given to topic, sixty-four instructional hours.

MACHINE GUN

Theoretical knowledge of the reference listed. Practical application with a view to the preparation of the student for machine-gun firing at camp and to training him to act as a squad and section leader in drill and combat. Instruction to cover determination of fire data and methods and means of fire control in direct laying; stripping and assembling the gun; commands; going into and out of position on varied ground; and so much of indirect laying as will acquaint student with the methods of obtaining firing data for guns controlled singly. Time given to topic, forty-two instructional hours.

37 MM GUN AND 3" TRENCH MORTAR

Theoretical knowledge of the reference listed. Practical application with a view to preparation of student for firing at camp and to training him to act as a member of a squad and a squad-leader in drill and combat. Instruction to cover the determination of fire-data, methods and means of fire-control, fire-orders, field stripping and assembling, going into action and out of action. Time given to topic, twenty-two instructional hours.

COMBAT PRINCIPLES—(Rifle Section and Platoon)

Theoretical instruction covering the reference listed. Application of principles taught to tactical situations by means of map problems, sandtable or relief map exercises and exercises on varied ground with a view to training the student in duties of several grades of rifle company N. C. O.'s in combat and the service of security. Time given to topic, thirty-two instructional hours.

SENIOR

My 401-402.—Senior Infantry, elective. (Advanced) 3 hours' theory and 3 hours' practice. 4 credits. Major Moore.

Text: *ROTC Manual*.

MILITARY LAW AND OFFICERS' RESERVE CORPS REGULATIONS

To give the student a general knowledge of the procedure of courts-martial and of the military law to which he will be subject when called into active service as a reserve officer. To acquaint the student with the conditions of service in the Organized Reserve. Time given to topic, fifteen instructional hours.

MILITARY HISTORY AND POLICY

Reference study of available publications on the outline of the history of the wars of the American Republic and illustrative campaigns and battles; evolution of the military policy of the United States. Time given to topic, twenty instructional hours.

ADMINISTRATION

To acquaint the student with the administrative problems of a company commander and the regulations governing company administration. Conferences and practical work on the following: morning report, sick report, duty roster, troop fund, military correspondence, orders, troop discipline, property, messing, troop sanitation and the care of the men. Time given to topic, eight instructional hours.

FIELD ENGINEERING

Elements of field engineering, to include standard types of field works; organization of working parties and tasks; selection of location of trenches; concealment and camouflage applied to infantry stream-crossing expedients. This course may be combined with Combat Principles (see below). Time given to topic, ten instructional hours.

DRILL AND COMMAND

A review of the previous drill and command course and additional practical instruction to qualify the student to perform the duties of platoon and company commanders and instructors of basic students in close and extended order drills, ceremonies, and physical drills; especially attention to the development of leadership qualities and methods of instructing and handling men. Time given to topic, sixty-four instructional hours.

COMBAT PRINCIPLES (Rifle and machine-gun company, and howitzer-company and platoon).

Theoretical instruction covering the reference listed. The rifle and machine-gun company and the howitzer-company platoon as part of an infantry battalion. Applicatory exercises on map, sand-table or relief map, and terrain. Elementary instruction in infantry signal communication. Time given to topic, seventy-five instructional hours.

FIELD ARTILLERY

FRESHMAN

My 103-104.—Freshmen Field Artillery, compulsory. (Basic) 2 hours' theory and 3 hours' practice. 4 credits. Captain Hepner and Donnovin.

Text: Wilson, *Field Artillery Manual*.

THE NATIONAL DEFENSE ACT AND THE ROTC

Orientation of the student in the provisions of the National Defense Act and the mission of the ROTC in the military system provided for in the Act. General outline of the organization of the ROTC course; institutional regulations governing the conduct of the unit. To be given at an early period of the year. Time given to topic, two instructional hours.

MILITARY COURTESY AND DISCIPLINE

To inculcate respect for, and loyalty to constituted authority; instruction in selected extracts from the regulations, and lectures, demonstrations and practical application. Instruction to be extended in connection with the course in dismounted drills. Time given to topic, three instructional hours.

MILITARY HYGIENE AND FIRST AID

Instruction in personal hygiene, first aid, and prevention of disease. Time given to topic, six instructional hours.

DISMOUNTED DRILLS

Theoretical and practical instruction covering close order drill, ceremonies, organization of the battery and individual equipment. This to qualify the student to participate as a private in close-order drill and ceremonies; and to inculcate precision, soldierly appearance and bearing, and the spirit of discipline. Knowledge of the essential elements of the battery organization. To qualify students in the packing and making of individual equipment rolls. Time given to topic, fifty-three instructional hours.

FIELD ARTILLERY INSTRUCTION

Ordnance and Material.—To give the student a good working knowledge of the types of battery material and equipment now in use; a short sketch of field artillery material; important features of design and construction; types under development.

Field Artillery Ammunition.—The use, care, handling and essential characteristics of projectiles, fuses, primers and powder charges.

Elementary Gunnery.—Simple definitions, the elements of the trajectory, and such elementary principles of ballistics as the student should know in order to understand how the gun is laid and the projectile moves during its flight.

Service of the Piece.—To qualify students in the duties of the gunner and the cannoner in the service of the piece.

Firing Battery.—To qualify students in the drills of the gun-squad and firing battery.

Gunners' Examination.—This examination is given at the close of the year to test the students in particular phases of their field artillery instruction. Those who qualify will be given the appropriate gunner's badge. Upon completion of the examination, a report will be rendered showing the number of freshmen enrolled at the date of examination, and the number of first and second class gunners found qualified.

Pistol.—The manual of the pistol, safety-precautions, nomenclature, operation, and preliminary instruction for range-firing. Time given to entire topic, ninety-six instructional hours.

SOPHOMORE

My 203-204.—Sophomore Field Artillery, compulsory. (Basic) 2 hours' theory and 3 hours' practice. 4 credits. Captain Barco.

Text: Wilson, *Field Artillery Manual*.

DISMOUNTED DRILL AND CEREMONIES

Continuation of the course of the first year. Time given to topic, thirty-four instructional hours.

FIELD ARTILLERY INSTRUCTION DISMOUNTED

Fire Control Instructions.—To give the students a practical knowledge of the use of fire-control instruments and duties of the instrument operators of the battery detail.

Battery Communications.—To qualify the students in the duties of the various members of the communications personnel of the battery detail, in laying, operating and maintaining battery communications. To include a thorough knowledge of telephone.

Care of Animals.—Foods, feeding, watering, conditioning, care of animals in the field, prevention of sore backs and sore shoulders; first aid treatment of the common diseases and injuries; regions of the horse, and conformation; duties of the stable-sergeant and stable-management. Time given to topic, fifty-four instructional hours.

FIELD ARTILLERY INSTRUCTION MOUNTED

Equitation.—To qualify the student to ride easily and confidently at all gaits, and effectively control his horse. This course will prepare the student to take up the subject of the field artillery driver.

Reconnaissance and Occupation of Position.—To qualify the students in the general duties and functions of the battery-detail. This course to include the solution of tactical problems on the ground with students completely equipped; mounted and organized, as nearly as possible, like a complete battery-detail.

The Field Artillery Driver.—To qualify the student to a reasonable degree in performing the duties of a field artillery driver; nomenclature and disposition of harness; harnessing and unharnessing; cleaning and care of harness and horse equipment; preliminary mounted instruction; management of the pair; principles of draft; application of draft.

Maneuvers Limbered.—A continuation of the preceding course (the Field Artillery Driver) to include the simple maneuvers of a battery mounted at reduced gaits. Time given to entire topic, seventy-two instructional hours.

JUNIOR

My 303-304.—Junior Field Artillery, elective. (Advanced) 3 hours' theory and 3 hours' practice. 4 credits. Captain Alexander.

Text: Wilson, *Field Artillery Manual*.

MAP READING AND MILITARY SKETCHING

Theoretical and practical instruction necessary to qualify students to orient, read and use military maps with facility. This course should lay the foundation and prepare the student for topographical operations incident to the preparation of fire given to the first-year advanced students. Time given to topic, eighteen instructional hours. (Not offered in 1930-31).

COMMUNICATIONS FOR FIELD ARTILLERY AND LIAISON

To familiarize the student with the duties of an artillery communication officer, to include establishment of message centers and all communications within the artillery brigade; a general knowledge of the communication nets of supported infantry units; duties and functions of liaison officers and detachments. Time given to topic, ten instructional hours.

PISTOL MARKSMANSHIP

Pistol marksmanship, dismounted to include firing the qualification course. Time given to topic, twelve instructional hours.

DISMOUNTED DRILLS

To instruct the student in the art of command and prepare him for the work of the camp and for the command and instruction of student batteries during the 2nd year Advanced Course. To include close-order drill, ceremonies, service of the piece, firing battery, commands and arm signals; especial attention to practice in voice-training; students to be rotated as drill-instructors of the group. Time given to topic, forty instructional hours.

EQUITATION AND HORSEMANSHIP

Progressive continuation of the basic equitation course to include more advanced work; jumping and cross-country riding over varied ground. Time given to topic, twenty-six instructional hours.

FIELD ARTILLERY FIRING

Gunnery.—To give the student a good grounding in the important principles of gunnery; use of firing tables; elementary principles of ballistics. Corrections; applicatory problems.

Preparation of Fire.—To qualify the student in the preparation of fire—deliberate and rapid.

Practical work with instruments outdoors to familiarize the student with the application of topographic methods to the deliberate preparation of fire; continuation of the basic course on map-reading and military sketching. Use and interpretation of aerial photographs.

Terrestrial Observation and Conduct of Fire.—To familiarize the student with the technical handling of field artillery fire, and prepare him to conduct service firing problems at camp; organization of the firing battery; duties of officers and non-commissioned officers; establishment of piece in position; commands and firing data; methods of fire; conduct of fire by blackboards, terrain board, and smokepuff. Time given to entire topic, eighty-six instructional hours.

SENIOR

My 403-404.—Senior Field Artillery, elective (Advanced) 3 hours' theory and 3 hours' practice. 4 credits. Captain Alexander.

Text: Wilson, *Field Artillery Manual*.
(Not offered in 1930-31).

MILITARY LAW AND OFFICERS' RESERVE CORPS REGULATIONS

To give the student a general knowledge of the procedure of courts-martial and of the military law, to which he will be subject when called into active service as a reserve officer. To acquaint the student with the conditions of service in the Organized Reserves. Time given to topic, fifteen instructional hours.

MILITARY HISTORY AND POLICY

Reference study of available publications on the outline of the history of the wars of the American Republic and illustrative campaigns and battles; evolution of the military policy of the United States; lectures. Time given to topic, twenty instructional hours.

EQUITATION AND HORSEMANSHIP

Continuation of first year Advance Course. Time given to topic, sixteen instructional hours.

ORGANIZATION, TACTICS, AND TACTICAL EMPLOYMENT OF FIELD ARTILLERY

To give the student a thorough understanding of the tactical employment of light artillery in support of other arms, and a general knowledge of the organization and tactics of other types of field artillery. Sufficient instruction in the composition and the offensive and defensive action of the infantry division and infantry units to give the student an understanding of the role of field artillery in the combat of the combined arms. Applicatory exercises involving the battery and the battalion of division artillery. Time given to topic, forty-five instructional hours.

COMMAND

To develop qualities of leadership in the students and train them in the methods of instructing and handling men; command and instruction of student batteries under the active supervision of Regular Army officers at practical drill and exercises, including the following: dismounted drills and ceremonies; service of the piece; firing battery; exercises in the reconnaissance, selection and occupation of position and conduct of fire. Maneuvers, limbered; equitation. Time given to topic, sixty-four instructional hours.

FIELD ENGINEERING

To teach students the construction and camouflage of various types of battery emplacements and shelters. Time given to topic, ten instructional hours.

BATTERY ADMINISTRATION AND SUPPLY

To acquaint the student with the administrative problems of a battery commander and the regulations governing battery administration. Conferences and practical work on the following: morning report, sick report, duty roster, battery fund, military correspondence, orders, battery discipline, property, supply, messing, battery sanitation and the care of men. Time given to topic, eight instructional hours.