

Catalog of the  
*New*  
*Mexico*  
*Military*  
*Institute*



Founded in 1891

A Catalog and General Announcement for the academic years 1958-1959 and 1959-1960 with information on administration, faculty, organization and history, admission and graduation requirements, tuition and fees, cadet life and activities, and description of courses offered at the Institute.

Roswell, New Mexico

## INSTITUTE AFFILIATIONS

The New Mexico Military Institute is a member of the American Association of Junior Colleges, and all of its work is accredited by membership in the North Central Association of Colleges and Secondary Schools. It is an important member of the American Association of Military Schools and Colleges. Its program is accredited by the Department of Education of New Mexico, and by the State University.

Graduates of the Institute in the Armed Forces of the United States have won for the school much distinction. The reputation of the school is nation-wide, and its graduates are to be found in almost every walk of life.

### A Note for Visiting Parents or Patrons

Parents or other patrons of Cadets who visit the Institute during the school year are requested to notify the school of their impending arrival. This notification will permit the Institute to arrange counselor-visits with fathers and mothers, without delay and without the possibility of missing contact. Especially during the Thanksgiving, Easter, and Commencement season, such notification of intention to visit the school will be much appreciated.

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NMMI Color Guard



Bronco Fountain

## INSTITUTE CALENDAR

### Academic Year, 1958-59

September 3, 1958.....	New Cadet Registration
September 8, 1958.....	Old Cadet Registration
November 27, 1958.....	Thanksgiving
December 19, 1958.....	Christmas Furlough begins at 11:00 A. M.
January 4, 1959.....	Christmas Furlough ends at 6:00 P. M.
January 24, 1959.....	First Semester ends
January 26, 1959.....	Second Semester begins
May 29 to May 31, 1959.....	Commencement

### Academic Year, 1959-60

September 2, 1959.....	New Cadet Registration
September 7, 1959.....	Old Cadet Registration
November 26, 1959.....	Thanksgiving
December 18, 1959.....	Christmas Furlough begins at 11:00 A. M.
January 3, 1960.....	Christmas Furlough ends at 6:00 P. M.
January 23, 1960.....	First Semester ends
January 25, 1960.....	Second Semester begins
May 27 to May 29, 1960.....	Commencement

### Academic Year, 1960-61

August 31, 1960.....	New Cadet Registration
September 5, 1960.....	Old Cadet Registration
November 24, 1960.....	Thanksgiving
December 23, 1960.....	Christmas Furlough begins at 11:00 A. M.
January 8, 1961.....	Christmas Furlough ends at 6:00 P. M.
January 21, 1961.....	First Semester ends
January 23, 1961.....	Second Semester begins
May 26 to May 28, 1961.....	Commencement



## ADVANTAGES OF NEW MEXICO MILITARY INSTITUTE

The New Mexico Military Institute offers the maturing student many advantages. Among them, the following are particularly noteworthy:

1. The Institute is a boarding school, well supervised 24 hours a day, and restricted in enrollment. Every cadet is an individual, and is recognized as such.

2. The military system of the school encourages physical as well as mental development. This physical development is supplemented by compulsory athletics, including calisthenics.

3. Mental growth is assured by a system of instruction approved by the North Central Association of Colleges and Secondary Schools. Institute credits are universally accepted for transfer.

4. The mild climate is ideal. Roswell is in a dry region, at an altitude of 3,600 feet. Out-of-door activities are engaged in throughout the year, for few days lack sunshine.

5. Manliness and self-responsibility are fostered by the military system, and leadership is developed by competition within the life of the Corps of Cadets.

6. Graduates of the Institute are almost without exception qualified for commissions in the Army Reserve Forces. Such graduates are free from the responsibilities of further training during their last two years of college or university work.

7. A functioning honor system permeates cadet life, and helps mold character.

8. Careful attention is given to the spiritual side of life through the Cadet Chapel, and through the many Roswell church groups. Religious clubs are encouraged, and the Chaplain of the Corps is available for counsel and guidance.

9. Expenses are reasonable: the fees stated in this Catalogue include board, room, laundry service, uniforms, books, activities, and spending money. (See Fees and Expenses).

10. Genuine democracy exists for all cadets. All have the same uniforms, share the same activities, and live in the same Barracks.

11. The faculty has been particularly selected for its ability to teach, and for its qualities of character. It is an experienced group which teaches any class.

12. The primary aim of the Institute is to develop responsible American citizens through study, precept, activity, and continual example.

## GENERAL POLICIES

The Board of Regents has outlined the general policies of the Institute as follows:

1. The New Mexico Military Institute shall be maintained at all times as an essentially military school.

2. Excellent and fully accredited academic and military departments shall be established and coordinated to prepare young men properly for military and civilian life.

3. Believing that sound character is the basic attribute of leadership, the Institute shall spare no effort to instill such virtues as frank truthfulness, strict reliability, and rigid honesty. To promote an atmosphere conducive to such character training, an honor system growing out of the sentiments of the Corps of Cadets, and conducted by their representatives shall be inaugurated and maintained.

4. The academic program shall commence with the Fifth Class (10th grade) and extend through the First Class and shall be vertically integrated throughout. A certificate will be granted signifying the completion of the Third Class and the Institute Diploma will be granted to graduates of the First Class.

5. The Superintendent shall be the chief executive officer and shall be responsible to the Board of Regents for the course and conduct of the Institute. All members of the Staff and Faculty will be selected with a view to their special fitness and willingness to cooperate and assist with the activities incident to a program that is both military and academic. Cadets, Faculty and designated Staff Members will wear prescribed uniforms. Cadets will live in barracks and will be subject to a carefully regulated manner of living and learning.

6. Neither day students, married students, nor students who have ever been married, may be members of the Corps of Cadets. For the immediate future the enrollment will be limited to 700 cadets.

7. All fiscal affairs shall be conducted on a strictly business basis. The school shall operate within the limits of its actual income with budgetary controls completely respected.

## EDUCATIONAL AIMS

1. To offer a three-fold academic program consisting of general, pre-professional, and terminal education.
2. To stimulate the desire to learn, to promote effective habits of study, and to detect and remedy academic weaknesses.
3. To promote sound health and mental alertness by means of military training and a directed athletic program.
4. To develop moral character, individual dignity, self-discipline, and a sense of social responsibility.
5. To train students to discharge proficiently the military obligations of citizenship.
6. To give students opportunity and direction in the art of leadership.
7. To encourage all students in the profitable use of leisure time.
8. To develop in students the art of social propriety.
9. To emphasize man's dependence on God.

### Directions for Correspondence

It is suggested that correspondence be directed as follows:

Admission, Transcripts of Records, and Transfer: The Director of Admissions and Records

Academic policy and curriculum: The Dean of Instruction for the First and Second Classes; the Assistant Dean for Third, Fourth, and Fifth Classes

Business matters, including Personal Accounts: Business Manager and Adjutant

Athletics: The Head Coach

Public Relations and News Releases: The Public Information Officer

Health of Cadets: Office of the Superintendent

General Policy: The Superintendent

Regulations Concerning the Corps of Cadets: The Commandant of Cadets

Problems of Individual Cadets: The Faculty Advisor assigned

### Location and Climate

Roswell is a modern, attractive city of 40,000 population lying in the broad upland valley of the Pecos River. It is a center for oil, livestock, and farming interests, and has attracted residents from all sections of the United States. One of its great advantages is an abundance of water from an artesian basin—an unusual circumstance in the dry Southwest.

The city maintains excellent schools, and supports a Carnegie Library and a distinguished museum. Roswell is principally a home-loving city, and it is a city of many churches.

The climate is almost ideal. The air is pure and dry; the nights and mornings are cool and bracing; the days are warm and bright. The altitude, 3,600 feet, is conducive to these favorable conditions, and to favorable health. Outdoor games are possible throughout the year, and it is rarely necessary to omit military exercises on account of the weather.

### How to Get to Roswell

Roswell, in the southeastern section of New Mexico, is accessible by buses, trains, and airlines, as well as by excellent highways.

Suitable connections on the Santa Fe railroad are made at Vaughn and Clovis, New Mexico, and Amarillo, Texas. The New Mexico Transportation Company, operating many buses through Roswell daily, is a Greyhound affiliate and is linked with the national transportation service. Continental Airlines operates four flights daily through Roswell, connecting the city with all other airline systems.

Highway 380, a branch of U. S. 80, passes through Roswell east and west, while from north and south U. S. 285 and U. S. 70. Connections may be made from these highways with U. S. 60 and U. S. 66.

### BUILDINGS AND GROUNDS

The yellow-brick, military Gothic buildings of the Institute campus suggest a long-established military post. At the same time, the modern classroom buildings with their up-to-

date scientific laboratories, their recitation rooms, and their auditorium, recall the academic nature of the school. The main campus exceeds forty acres in size; this is adjoined by a larger tract of Institute land, as yet undeveloped.

Within the post area different functional areas—the Barracks, the academic area, the sports area—are appropriately separate without disuniting the different phases of life at the Institute. In the center of the campus is the five-story tower of the Headquarters-Library building; before this tower is the flagpole bearing the United States flag during the daylight hours. Both of these distinctive features bespeak the purposes of the Institute, to educate and discipline young American citizens.

Except for war years, there has been since 1909 an almost continuous building program at the Institute; today, the total value of buildings, grounds, and equipment is approximately ten million dollars.

### Living Facilities

The Corps of Cadets lives in Hagerman Barracks, in quarters well-lighted and heated, and cross ventilated. The rooms, designed to house two cadets each, are essentially furnished. Information concerning articles which may be brought to the Institute will be found on page 17.

Meals are served to the Corps of Cadets and to certain members of the faculty and staff in the Mess Hall, a large, attractive dining room with a seating capacity of more than seven hundred. The Mess Hall kitchens are the most modern and sanitary available, and meals are prepared and served under the close supervision of an expert dietitian.

The Institute Infirmary is set apart from the other buildings on the post, in order to provide maximum quiet and repose. It is equipped to take care of emergencies as they arise. Four nurses are on constant duty to look after Cadet needs. Usually, when more than temporary hospitalization is required, the Cadet is taken to one of Roswell's fine professional hospitals, Saint Mary's, or Eastern New Mexico Medical Center. Cadet health is supervised daily by the post surgeon,

who is on call at all times.

Non-sectarian chapel services, compulsory for those Cadets who do not attend other religious services, are held in Pearson Auditorium each Sunday. This building, which has a seating capacity of 1,500 persons, is conveniently close to the Barracks, and is the scene of moving-picture shows, dramatic and forensic entertainments, musical programs, and many other events during the school year.

Cadets who desire to attend church services in Roswell may do so upon individual request, and since Roswell is known as a city of many churches, religious possibilities are almost unlimited. The Institute encourages spiritual affairs, and is proud of such student organizations as its Newman Club and Canterbury Club.

Administrative offices of the Institute occupy about half the new Headquarters-Library building. The Alumni office, the Registrar's office, the Business offices and other Administrative offices are maintained in Headquarters, including offices of the Superintendent and the Dean. Its central location makes it convenient for visiting patrons and alumni as well as Cadets.

### Academic Facilities

Two academic buildings, Lea Hall and Willson Hall, provide classrooms, laboratories, and small auditoriums for both high school and college affairs. The Institute makes full use of modern educational equipment; facilities for the use of visual aids, for example, are available in both buildings. Phonetics laboratories, equipped with recording machines, assist the students of language. Developmental reading classes, held in comfortable and informal rooms, help Cadet needs. All classrooms are attractively decorated, and the laboratories are up-to-date and well-equipped.

### The Library

The Library occupies the west wing of the Headquarters-Library building. Its volumes number 40,000 and the collection is being increased at the rate of some 2,000 volumes yearly.

On the main floor of the Library is the circulation desk, the periodical room, and the reference room with its up-to-date reference tools, bound periodicals, and study tables. The periodical room contains current issues of about 250 periodicals, including professional and technical journals, magazines of general interest, and daily newspapers from all sections of the country.

The book stacks, housed on the lower level, are open to all Cadets; only rare or "treasure" volumes are not immediately accessible to Cadets at any time. Study tables, a music room with a fine collection of recordings of classical music, speech, and drama, and a magazine and newspaper file room are also on this lower Library level.

The main Library office, several classrooms and other offices, and a Forum room with a stage for the use of Cadets for club meetings or speech practice, are on the upper floor of the Library.

### **Military Facilities**

The Department of the Army furnishes all arms and equipment for carrying on the Institute's military training program. The Institute maintains an excellent pistol target range, a fine indoor gallery rifle range, and an armory. It has an outdoor rifle range, where all Cadets are qualified or tested in marksmanship. Adjacent to the central campus is the J. P. White Parade Grounds, a tract of one hundred twenty-three acres. North of the central area, and extending west, is a tract of several hundred acres used for tactical maneuvers.

### **Military Science Building**

The Military Science Building was completed in 1957 for the use of the ROTC Instructor Unit. The building accommodates the offices of the unit, classrooms for all military instruction, arms room, supply room, and an indoor range of 12 firing points. The Army considers the building one of the best provided by any institution in the whole ROTC program. The Army furnishes the necessary weapons and military equipment for carrying on the ROTC training.

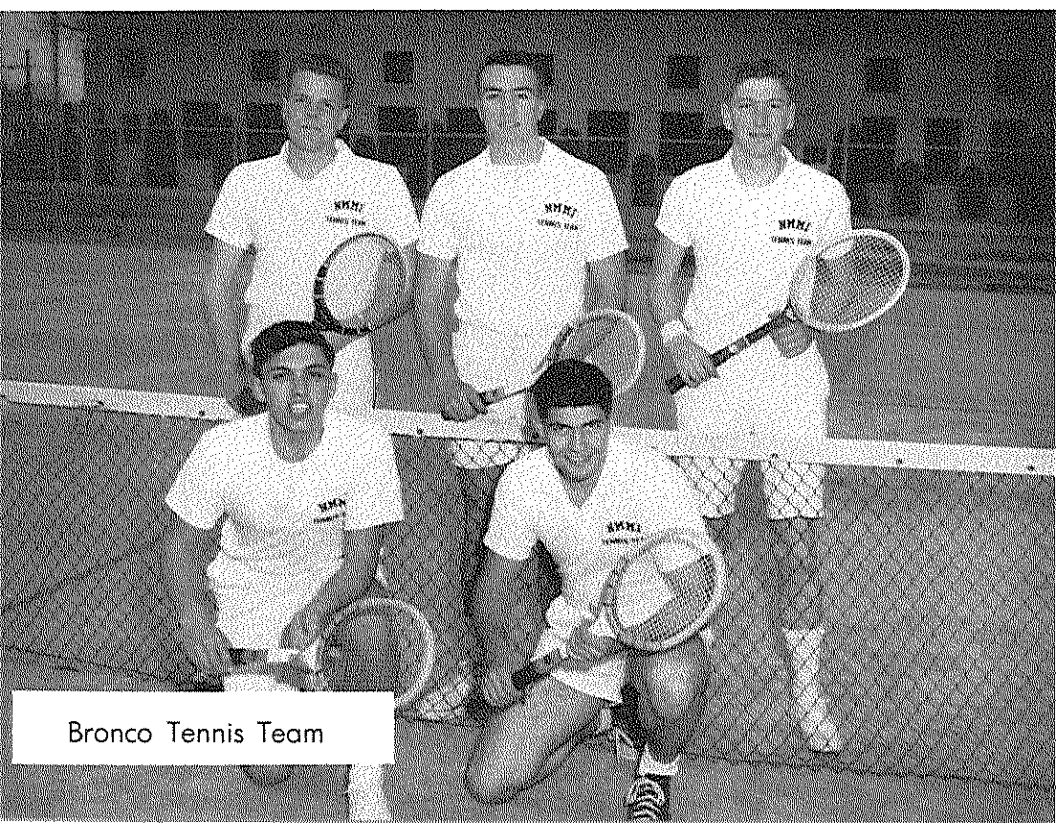


Cahoon Armory





Golf Instruction



Bronco Tennis Team

## Recreational and Athletic Facilities

Five buildings on the post serve the recreational needs of Cadets. The first of these is the J. Ross Thomas Memorial building, with its recently-completed addition, V.M.V. Hall, which contains a spacious lounge, a post exchange or refreshment room, the Institute post office, barber shop, Cadet store, a magnificent bowling alley, billiard and ping-pong rooms, and so on. Regular Cadet dances are given in V.M.V. Hall in the main ballroom, which is one of the centers of attraction on the post.

Pearson Auditorium, mentioned in the preceding section, is equipped with the latest motion-picture screen and cameras, a fine stage, and an excellent three-manual pipe organ. Moving pictures are shown to Cadets in this Auditorium regularly each week, and special Lyceum or Community Concert programs are interspersed throughout the year for the development or entertainment of the Corps.

The rich resources of the Library are available to Cadets for recreational purposes as well as for serious study.

For Cadets interested in sports, the Institute has several athletic fields, a natatorium, and a gymnasium.

Luna Memorial Natatorium houses a swimming pool, forty by eighty feet in size, which is filtered and chlorinated throughout the year, and is heated in the colder months.

Just added to the recreational facilities is a \$300,000 eighteen-hole golf course, complete with golf house, on Institute property. A professional is on hand for instruction.

Cahoon Armory and Gymnasium is one of the largest gymnasiums in the State: the principal room is one hundred feet wide and has space enough for three basketball courts. The gymnasium is completely equipped for indoor athletic classes, boxing, wrestling, and tumbling. It contains quarters for visiting athletic teams, dressing and shower rooms for Institute and visiting teams, storage facilities, and offices. The main room of the gymnasium is the scene of the larger Cadet dances, such as the annual Final Ball.

## GENERAL REQUIREMENTS FOR ADMISSION

A candidate for admission must be fourteen years of age or older, and must not be under five feet in height. Before he is admitted to the Corps of Cadets, he must pass a physical examination supervised by the post surgeon.

Any candidate for admission must never have been married, must be of good moral character, and must furnish recommendations as listed below. The Institute reserves the right to disapprove applications at its discretion.

Corrective medical or surgical treatment, including dental work or the fitting of glasses, should be completed before entrance into the Institute. Smallpox vaccination is required, and inoculation for typhoid and paratyphoid fevers is required every three years. The New Cadet must submit a certificate of such inoculation within that time limit. The Cadet must be free of contagious or infectious diseases.

Each applicant must submit a formal application for admission; a blank for this purpose will be sent upon request to the Registrar. Approval of the application is contingent upon sound physical health and moral character (see above), and upon the following additional factors:

1. Two character references must accompany the formal application blank, if the applicant desires immediate consideration of his application. Delay in securing these character references means delay in the process of registration.

2. A complete academic record must be submitted upon an Institute Certificate of Recommendation blank. Information on this blank includes a principal's endorsement, and data concerning the applicant's character and habits of study.

3. A small full-face photograph of recent date should be attached to the application blank.

4. The Institute reserves the right to refuse entrance to anyone, and therefore, at its discretion, may approve or disapprove any application for admission.

## FEES AND EXPENSES

In all instances remittance should be made payable to the New Mexico Military Institute. Tuition and fees are payable on September 1 for the entire year, although arrangements may be made to pay sixty percent of the tuition September 1, and the remainder January 1.

A Cadet's formal application for admission must be accompanied by a deposit of \$100, which, upon acceptance, will be credited to the tuition account. Failure to accept a place reserved except for cause means forfeiture of the deposit.

Board, lodging, personal laundry, and academic instruction for Cadets who are residents of New Mexico is \$750 a year. For students from out-of-state, the sum is \$950. Each enrollment is based upon a full year's attendance of nine months. An in-state, or resident, student, is defined by statute as one who has been domiciled in New Mexico (or his parents, or guardian) for at least one year prior to his initial enrollment.

Personal expense for the Cadet will ordinarily come within a \$400 to \$500 range for the academic year. This sum should include clothing, cost of books and supplies, weekly allowances, and incidental expenses. Through a personal account, these expenses are handled by the business office, and statements issued once each month. An adequate credit balance should be maintained to meet current expenses at all times.

Fixed fees—Athletic \$15.00, Library \$10, Linen Service \$37 (?), Lyceum and Entertainment \$13, Maverick \$5, Group Accident Insurance \$15. These fees, amounting to \$90, may be supplemented by academic fees for particular courses like chemistry and biology, or by special fees for graduation, for preparing transcripts of credit, etc.

The following is a partial list of charges that are cleared through the cadet's personal account. These charges are subject to change from year to year.

### *Dress Uniform*

Tailored Dress Blouse .....	\$47.50
Two pairs of dress slacks at \$21.00.....	42.00
Service Cap .....	7.00

One pair dress oxfords .....	\$12.50 to	18.95
Gloves .....	pair	3.00

*Regulation Uniform*

Regulation cotton khaki shirts, (8) \$5.50 ea. (average) .....		\$44.00
Cotton khaki slacks, (4) at \$5.40 ea. ....		21.60
Two pairs paratroop boots .....		28.00
One web belt .....		.50
Garrison Caps (3) .....	each \$1.50	4.50

*Other Equipment and Supplies*

Regulation trench coat .....		\$22.50
Two black ties at \$1.00 each .....		2.00
Athletic Shoes .....		7.00
Two laundry bags at \$1.50 each .....		3.00
Books and school supplies, each semester..	\$20.00 to	30.00

<i>Summary of Expenses</i>	<i>In-State</i>	<i>Out-State</i>
Tuition, room and board.....	\$750.00	\$950.00
Deposit with application will be applied on the above.		
Fixed Fees .....	90.00	90.00
Linen Service .....	34.00	34.00
Group Accident Insurance .....	15.00	15.00
Deposit for Personal Expense ....	411.00	411.00
Total Tuition, Fees and	_____	_____
Personal Expense .....	\$1,300.00	\$1,500.00

Each enrollment is considered on its own merit for the full academic year. Withdrawal or dismissal for the benefit of New Mexico Military Institute at any time carries full financial obligation, including tuition and fixed fees. Transcripts of academic credit will not be processed until all financial indebtedness has been cleared.

*Spending Money*

Large amounts of spending money are unnecessary and are not recommended since all required supplies such as hair-cuts, toilet articles, etc. are furnished the cadets from the military store and charged to their personal accounts. Generally, only non-essentials are secured through cash purchases and tend to indulge the young men in extravagant tastes. It is urgently requested that parents or guardians authorize the

Adjutant to issue spending money on a weekly basis, in accordance with the following schedule:

New cadets in the Fifth, Fourth, and Third Classes, \$2.00; new cadets in the Second Class \$3.00; old cadets in the Fifth, Fourth, and Third Classes, \$3.00; old cadets in the Second Class, \$4.00; and in the First Class, \$5.00.

Under certain circumstances, when the Cadet store cannot furnish a Cadet's needs, he may obtain his supplies in Roswell, which has a wide variety of fine stores and shops.

Articles of clothing mentioned in the preceding "partial list of charges" must conform to regulations, and should be bought at the Institute.

Articles in the following list should be brought from home, or may be purchased in Roswell: 1 pair heavy blankets, 2 comforters or extra blankets; black cotton socks, gym shoes, pajamas; bathrobe; bedroom slippers; brush and comb; tooth brush; clothes brush; nail brush.

Cadets may have a radio and/or a television set (not to exceed 12" x 14" x 12" in size) in their rooms, for use at specified times. Rugs and draperies should not be brought from home.

Trunks are not required and are not allowed in Cadet rooms. If brought, they are stored in basement trunk rooms. Steamer or small wardrobe trunks that are easily handled are preferred.

## POST REGULATIONS

### Uniform

Cadets are required to wear the authorized uniform at all times.

### Living

Cadets are required to live in Hagerman Barracks under the authority and supervision of Institute officers. They are governed by regulations published by the office of the Commandant of Cadets.

An integral part of the military system is the imposition of a code of behavior characteristic of the Corps of Cadets. This code includes special duties for first year new cadets,

and broadening opportunities for leadership on the part of old cadets. These activities are carefully supervised by responsible officers, and are to be distinguished altogether from hazing, which is strictly forbidden by regulations.

### The Honor System

The Institute zealously supports an Honor System, whose code is based upon the conduct and moral attitude of true gentlemen. Stated briefly, the Honor Code accepts a Cadet's word that he will not lie, cheat, steal, or break his pledged word. An Honor Board, composed originally of representatives of the First Class, assists in the enforcement of the Honor Code. Election of Honor Board members for the ensuing year is made from Second Class during the second week of February.

### The Blue Book

Infractions of regulations which do not come under the supervision of the Honor Board are penalized through the Office of the Commandant. Serious infractions of regulations may be examined by the Superintendent, or upon request the Superintendent may refer any case submitted to him to a Suitability Board for thorough investigation and recommendations, which may be composed of Cadets, administrative officers, and faculty members.

A book of regulations for Cadet behavior, known as the Blue Book, is published by the Commandant's Office and distributed to every cadet in the Corps. Breaches of regulations in the Blue Book carry various penalties, depending upon the seriousness of the offense. Demerits, tours, (special hours assigned on the drill field or in the Barracks area), confinement to post, confinement to quarters, reduction in rank, and suspension or dismissal from the Institute, are among the penalties listed.

### Responsibility for Property

Each cadet is responsible for Institute and Government property issued or assigned to him, including his room with

its furniture and equipment. He is accountable for any damage to such property. Damages to any Institute and/or Government property, where responsibility cannot be definitely placed, will be assessed against the Corps or smaller groups of which the offending cadet is a part.

### Physical Hazing and Other Major Offenses

Upon conviction and/or admission of the following serious offenses, expulsion is mandatory:

- a. Stealing.
- b. Cheating.
- c. Physical hazing.
- d. Forgery with intent to defraud.
- e. Plagiarism.
- f. Introduction to the Campus and/or possession or use of alcoholic beverages.
- g. Possession and/or use or transportation of narcotics.
- h. Any act of vicious or immoral nature unbecoming a cadet and gentleman.

### Special Regulations

The Institute reserves the right to dismiss any cadet who does not fit properly into the life of the Corps.

A system of demerits and punishment tours is in force, covering carelessness in conduct or other transgressions of Institute rules. Manifest indifference on the part of a student in adjusting himself to the routine will be considered grounds for dismissal.

Neither married students nor students who have been married may be members of the Corps of Cadets. Students who violate this policy will be dismissed immediately from New Mexico Military Institute.

No cadet, officer, or staff member may accept a group-sponsored present.



### Permits

Permission to visit in Roswell is granted at specific times to all cadets who are not restricted for academic or disciplinary reasons. All cadets are accorded this privilege on Saturday and Sunday afternoons, and at other times approved by the Commandant of Cadets.

On dance nights, cadets who have dates and who are otherwise eligible to attend the dances are privileged to call for their dates in their homes, and to escort them home after the dance. Other permits granted for late evening and night hours are governed by such factors as rank in the Corps, participation in Institute activities, or appearance on the Deans' Lists. Regulations concerning all permits are laid down in the cadet handbook of procedure, the Blue Book.

### Furloughs

A cadet admitted to the Institute is subject to its regulations for the full academic year. By virtue of their contract with the Institute, parents or guardians relinquish control and supervision of their sons or wards while they are at the Institute. In order to maintain proper control over the boy or young man, the Institute earnestly requests parents or guardians not to seek special leaves or other special privileges for their youths, and the decision to grant or refuse leaves must remain in the hands of Institute authorities during the academic year.

A Christmas furlough will be granted to the entire Corps of Cadets. For the dates of this furlough, see the Calendar.

Special furloughs are granted in recognition of academic achievement. Members of the Deans' List are the only students eligible for this type of furlough, and particulars are contained in the cadet Blue Book. Furloughs are also granted to First Classmen who are in good standing.

Emergency furloughs may be granted only at the discretion of the Superintendent, upon the recommendation of the Commandant of Cadets. A death in the immediate family, a serious illness, or the marriage of an immediate member of the family are considered the only valid emergencies which might arise. The immediate family consists of the father, mother,

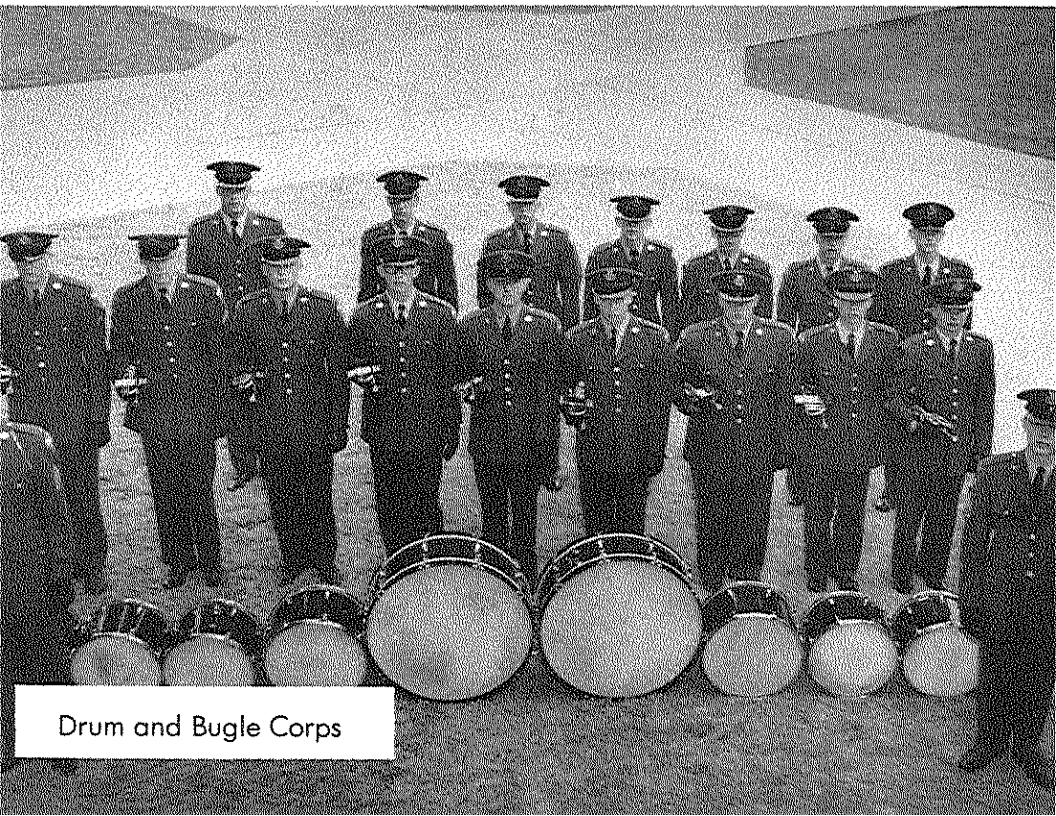


PEARSON AUDITORIUM

Cadets Leaving Chapel



NMMI Cadet Orchestra



Drum and Bugle Corps

brothers, sisters, grandparents and legal guardians. Parents are asked not to request "emergency" furloughs for any other reasons.

The City of Roswell, and the area within a ten-mile radius of it, is off limits for all furloughs. The only exception to this statement is that Cadets whose homes are in Roswell may spend their furloughs at home.

The departure of cadets from the Institute for any other reasons, such as are required for team activities, field trips, etc., are specified in the Blue Book.

### **Automobiles Not Permitted**

Cadets are not permitted to own or operate motor-propelled vehicles, including automobiles, on the Institute campus or in the vicinity of Roswell. The only exception to this rule is that a Cadet may drive his family car if and when his parents accompany him in the vehicle.

### **Firearms and Other Weapons**

Firearms should not be brought to the Institute, with the exception of match pistols and rifles, which will be stored and used in the Armory under the guidance of team coaches. Nothing else classified as a weapon is to be brought to the Institute under any circumstances. A cadet bringing any gun or pistol to the school must immediately report the fact to the Commandant of Cadets.

### **New Cadet Customs and Traditions**

For the guidance and orientation of new Cadets, the Commandant's Office distributes to each first-year Cadet a pamphlet entitled *New Cadet Customs and Traditions*. Contents of this pamphlet must be learned by the new students during his first few days at the Institute.

### **Transcripts of Credit**

Each Cadet who is not a member of the First Class, is entitled to three Transcripts of Credit, which may be sent without charge to any institution of his choice. A charge of \$3.00 is made for each additional transcript.

## CADET ACTIVITIES

### Social

Social activities at the Institute begin with the opening of the school year. Under the sponsorship of a Cadet Social Affairs Committee there is a tea-dance given in V.M.V. hall to which selected young ladies of Roswell are invited. Thereafter, semi-monthly Cadet hops are sponsored by the Cotillion Club.

Formal dances are scheduled from time to time, and climaxing the year's activities is the Final Ball, an event of Commencement Week, to which State officials, the Board of Regents, other distinguished visitors, and patrons and alumni are invited. Music for the Final Ball is usually provided by a "name band" of national reputation.

Motion pictures are shown twice weekly in Pearson Auditorium. A Lyceum series, consisting of several widely-different attractions, and the Community Concerts' Association programs are also presented in the Auditorium.

Cadet clubs are reflections of the interests of the Corps of Cadets. Among these are the Cadet Officers' Club, the Varsity "I" Club, the Colt Club, Cotillion Club, First Sergeants' Club, DeMolay Club, Canterbury Club, Newman Club, Camera Club, International Relations' Club, and Saunders Debating Club.

Cadets have their own Regimental Band of approximately seventy musicians. There is also a Cadet Orchestra, and a Glee Club.

Cadets interested in public speaking may enter the Burton Contest (for Third and Fourth Classmen) or the Ruppert Contest (for First or Second Classmen). Both these contests are held in the spring semester, some time before Commencement.

Dramatic performances, from variety shows to serious plays, are given on occasion by members of the Corps.

### Athletics

Athletic activities at the Institute begin with intramural sports under the direction of the Head Coach. All Cadets who are not on interscholastic teams must participate in intra-

mural events, which include touch football, basketball, tennis, track and field events, softball, swimming, wrestling, tumbling, fencing, volley ball, bowling, golf, and weight lifting.

The Institute engages in intercollegiate sports in football, basketball, baseball, track, tennis, golf, wrestling, swimming, and rifle and pistol competition. Letters are presented annually to competitors under the rules of the Conference.

Colt teams (for Third, Fourth, and Fifth Classmen) and "B" teams (for the younger, lighter Cadets) have their own coaches, and the Colts compete in a Class A category of New Mexico competition.

Cahoon Armory and Gymnasium, built in the late 20's, has been remodeled to constitute an up-to-date physical education center, with the finest of equipment.

The Luna Natatorium has been completely modernized and its facilities expanded.

Important Institute contests are staged either on the campus or the DeBremond Stadium, which is a short distance from the Institute campus.

Athletic letters may be earned through competition at Bronco, Colt, and Pony levels.

### Publications

Two publications are authorized by the Board of Regents for the Corps, and both are edited by Cadets. The *Bronco*, the annual, has won recognition in national contests; and the *Maverick*, a semi-annual magazine, includes original poetry and many types of prose. Special privileges are awarded to approved members of the staffs of these two publications.

### Employment

Cadet employment is governed by a Cadet Employment Board. Some eighty five positions are open to Cadets each year, with rates of pay according to work done. Financial need, academic and disciplinary proficiency, and individual competence are considered in filling these jobs, and preference is given to old Cadets who have demonstrated their abilities.

Cadet employees are hired by the Business Manager, and

their pay is credited to their personal accounts. Continuance of employment is contingent upon academic and disciplinary proficiency, and satisfactory performance of services. Positions as laboratory assistants, waiters, helpers in the Post Exchange, bowling alley, auditorium, laundry, etc., are among those available to applicants.

## SCHOLARSHIPS AND AWARDS

All scholastic awards are made by the Faculty Scholarship Committee on the basis of criteria established by the donors. At mid-year the academic records of all scholarship holders are reviewed by the Committee. A scholarship may be withdrawn for the second semester, if in the opinion of the Committee, the holder has failed to meet the standards prescribed. In such cases only one-half of the award for the year is credited to the holder.

Medals and prizes are awarded to cadets who have distinguished themselves in various ways. Cadets who have earned superior academic records are placed on the Deans' List. Medals and bars for outstanding military achievement are awarded at stated times. Athletic letters are awarded to deserving contestants at the end of each sports season.

Many awards are made during Commencement Week, and Cadets are apprized of them at ceremonies conducted during that final period of the year's endeavors. Scholarship applicants may obtain blanks from the Chairman of the Scholarship Committee.

### Scholarships

New Mexico Military Institute Scholarships, presented by the Board of Regents and valued at \$300 each, are given to an outstanding member of each of the academic classes, from the Second through the Fifth Class.

The Alumni Scholarship, valued at \$200, is awarded to the son of an Alumnus of the school.

The Will C. Lawrence Scholarship of \$100 is awarded to a graduate of the Twelfth Grade who wishes to continue his studies at the Institute.

The Virgil Lusk Memorial Scholarship, worth \$200, is

given to a Twelfth Grade graduate who intends to continue his education at the Institute.

New Mexico Military Institute Foundation, Inc., Scholarships for strictly academic excellence were established in 1958 by the Board of Regents of the Institute. Several thousand dollars are available for scholarships under this award, details of which may be obtained from the Scholarships Committee of the Faculty Senate.

The Walter H. Boyd Memorial Scholarship is given to a young man whose interest in military affairs will assure him a commission in the Officers' Reserve Corps upon the completion of his college work. It is worth \$200.

The Truman O. Boyd Memorial Scholarship, also carrying a stipend of \$200, is awarded on the same basis as the Walter H. Boyd Memorial Scholarship.

The Arthur L. Allen, Jr., Memorial Scholarship, with a stipend of \$200, is given for military proficiency and outstanding character.

The Willie Morrison Memorial Scholarship, awarded for general excellence in school activities, and aptitude in the field of mathematics. It carries a stipend of \$200.

The Stanley W. Crosby, Jr., Memorial Scholarship is presented to a Cadet who has demonstrated good citizenship within the Corps as well as outstanding leadership. It is a \$500 scholarship.

The Lester A. Sprinkle, Jr., Memorial Scholarship, valued at \$600, is awarded on the basis of character, academic excellence, and particular aptitude for a military career.

The General Douglas MacArthur Scholarships, given in the General's name by Mr. and Mrs. Jesse H. Jones of Houston, are awarded to Cadets in the Corps who have the intention of entering some area of public responsibility upon graduation from college. The value of these scholarships varies from \$200 to \$400.

The D. F. Sellards, Jr., Scholarship, worth \$300 in tuition, is given to a New Cadet who has demonstrated marked qualities of leadership.



The Gene Buck Memorial Scholarship, established by the First Sergeants' Club of the Institute and valued at \$200, is awarded for proficiency in academic and military studies, and outstanding devotion to duty.

The Roswell Coyote Scholarship, given by the Roswell Quarterback Club, goes to a member of the Roswell High School football team who enters the Institute. It is valued at \$300.

### Medals and Prizes

The Ruppert Awards are given to the successful finalist and runner-up in a speech competition before the entire Corps of Cadets.

The MacMurphy Award is given for the highest individual standard of good sportsmanship maintained in the Regiment of Cadets.

The Saunders Memorial Medals, given in memory of Colonel H. P. Saunders, Jr., long-time Commandant, are for neatness of appearance and practical military skill. One gold, one silver, and two bronze medals are awarded each year.

The Hugh L. McInnis Award of a Class Ring, is given to an outstanding candidate for graduation in the First Class.

The J. Ross Thomas Medals for manliness and ability, one gold, one silver, and one bronze, are given in memory of Major J. Ross Thomas, a distinguished member of the academic faculty.

The John Flack Burton, Jr., Memorial Awards for Speech are given for winning first or second place in a competition engaged in by Third, Fourth or Fifth Classmen.

The Ernie Mihás Award for character and qualities of leadership is presented annually by Mrs. Margaret Mihás in memory of her husband, a graduate of the Class of 1950.

New Mexico Society Sons of the American Revolution Award for leadership, military excellence and soldierly bearing, is presented to an outstanding Cadet in the Reserve Officers' Training Corps program.

The Jason W. James Rifle Team Medals and Bars, sponsored by the Board of Regents, are earned in intra-scholastic

as well as inter-scholastic competition.

The Joe Govan Medal, presented by the Class of 1951, is given for all-round ability and leadership.

The Hugh Fink Award, a memorial to the Colonel of the Corps of Cadets in 1935, is given to a cadet who merits it through character and demonstrated ability.

American Ordnance Association Medals, awarded to members of the First, Second, and Third Classes, are given for various abilities, academic proficiency, and interest in scientific development.

### THE FACULTY SENATE

Empowered by the Board of Regents to legislate matters of academic concern at the Institute, the Faculty Senate was organized in 1947. The Dean, the Assistant Dean, and the Professor of Military Science and Tactics are ex-officio members, non-voting, but present in an advisory capacity. Nine members elected by the faculty comprise the rest of the membership.

The Policy Committee of the Senate concerns itself with the institutional aims of the school, its recommendations passing to the Superintendent and the Board of Regents. Sub-committees of the Policy Committee are the Committee on Scholarships, the Committee on Curriculum and Standards, and the Committee on Testing.

The Faculty Affairs Committee functions above three sub-committees: the Committee on Social Affairs; the Committee on Elections to the Senate; and the Committee on Faculty Status.

The Student Affairs Committee concerns itself with matters relating to Cadet activities not strictly academic or military in nature: athletics, lyceum events, Commencement activities, student social affairs, and student publications.

It is the duty of the Faculty Senate to take cognizance of student probation, suspension, or expulsion for academic reasons. It also determines course requirements, grade distinctions, requirements for promotion and graduation requirements. The Faculty Senate approves candidates for graduation.

## ALUMNI ASSOCIATION

New Mexico Military Institute alumni are organized into more than sixty local chapters throughout the United States from coast to coast where intermittent meetings and banquets are held with representatives from the Institute as guests. Group meetings of alumni are also held in Hawaii, Mexico and Germany.

The Alumni office keeps in continued contact with its membership of approximately 8,000 members through personal correspondence, news letters, annual visits to the various chapters and the regular issue of the official publication of the Association, the "Sally Port."

Class reunions are held during the Homecoming and Commencement periods at which times special honors and awards are given these returning ex-cadets and graduates.

Participation by the alumni in Institute affairs is reflected by the large per cent of new cadets recommended each year by the alumni, the many sons and grandsons of alumni among the Corps of Cadets, and numerous awards and scholarships.

## ACADEMIC ORGANIZATION

The Institute has adopted a uniform vertical system of academic organization, with coordinated curricula covering the five years of classroom activities from the second year of high school through the second or sophomore year of college.

The advantage of this system lies in progressive advancement in studies, without unnecessary overlapping and repetition. Throughout his stay at the Institute a Cadet will know that his development is being supervised by the same thoughtful agents of the administration: the Dean, the Assistant Dean, the chairmen of divisions, department heads, and individual instructors. His transition to college will be accomplished without disturbance or loss of time, and his interests, constantly looked after by the same individuals, will be uniquely protected.

A Third Classman, if he has earned 15 units of credit, may take several college courses at mid-year and may be

classified as a Second Classman. To secure either the Junior College Diploma or the High School Certificate of Completion of the Third Class, residence requirements must be observed.

#### **Course Numbering System: Third, Fourth, and Fifth Classes.**

Numbers I through IV indicate the relative level of courses offered, though the number I, for instance, does not necessarily mean that the course is primarily for Fifth Classmen: Latin I, the basic course, may be taken by Fourth or Third Classmen as well as Fifth Classmen.

A course numbered Ia is the first half or first semester's work, though it may be given during the second semester for the convenience of the student. To earn full credit in Plane Geometry, the student must take both Geometry Ia and Geometry Ib. Other courses follow the same pattern of designation.

#### **Course Numbering System: First and Second Classes.**

Courses numbered 100 are ordinarily considered Second Class courses; 200 courses are First Class courses. Sequence courses, requiring both semesters' work before the completion of credit earnings, are numbered consecutively, with a hyphen between the numbers, thus: English 111-112.

Ordinarily, courses ending in odd numbers are given during the first semester; even-numbered courses ordinarily indicate the second semester's work—but beginning sections may be started in the second semester, or the final semester's work in a course may be given during the first semester.

Any course numbered below 100 does not earn college credit and cannot be offered for college transfer.

Full year courses which offer independent credit for a single semester's work are indicated in the individual course descriptions.

#### **The First and Second Classes**

The academic program helps achieve the general objectives of the school by offering programs of general, pre-professional, pre-Service Academy, and terminal education.

The chief emphasis is placed upon general and pre-pro-

fessional preparation for upper division work in senior colleges throughout the country. To the extent that upper-division professional requirements permit, the student is urged to further his general education—the kind of education suitable for everyone, regardless of occupation or profession. Such education should serve to orient young men in a complex world; should facilitate their cooperation for the public welfare by equipping them with a common body of knowledge and attitudes, and should advance their individual development and their collective capacity and responsibility for democratic living.

An additional objective of the Institute is to prepare the student for entrance to any one of the United States Service Academies.

### Admission to the Second Class

Any graduate of an accredited high school may be accepted into the Second Class. An accredited high school is one whose diploma is honored for unrestricted admission by the university of the state in which the high school is located.

Students with fifteen units of high school credit may request admission to the Second Class, but will be required to make up the one unit deficiency at the Institute.

### Grades and Grading

Grades are recorded at the close of the semester. The grading symbols employed are A—Excellent; B—Good; C—Fair; D—Poor, but passing; U—Condition, which may be raised during the ensuing grading period or it becomes F; F—Failure; W—Withdrawn during the first three weeks or while passing; WF—Withdrawn while failing; X—Incomplete.

The grading scale used by Institute instructors is approximately as follows: A, 100-94; B, 93-86; C, 85-78; D, 77-70; F, below 70.

If a student repeats a course to raise an unsatisfactory grade, he will be given full advantage of the new grade, and the grade points earned in the second effort, to the exclusion of the first.

### Academic Regulations of the First and Second Classes

A preliminary testing program is administered to all new Second Classmen. The testing program explores general mental aptitude, proficiency in English and reading skills, mathematics, and aptitude for chemistry.

All cadets found deficient in silent-reading skills are required to take work in corrective or developmental reading. The other test results, considered along with high school grades, are utilized in fashioning individual programs of study and in adjusting a student's load to his capacity.

To be considered a First Classman, or candidate for a Junior College diploma, a Cadet must have earned a minimum of thirty semester hours of credit, with no distinction made between military science credit and other earned credits.

### Required Courses

English 111-112 is required of all Second Classmen (college freshmen). First Classmen are required to complete History 211-212, or three semester hours of American History plus Government 211.

Every Cadet is required to pursue Military Schools' Training throughout the Second and First Class years.

### Grade Points

A grade of A merits four grade points; B, three; C, two, and D, one. In grades of F and WF, the semester hours undertaken are charged to the student, but with no grade points earned. A grade of W carries no penalty in semester hours or grade points.

### Requirements for the Institute Diploma

To earn a Diploma, a student must satisfy the following requirements:

1. He must spend the First Class year in residence as an Old Cadet.
2. He must satisfy the course requirements: English 111-112, History 211-212 or its equivalent, and Military Schools Training for two years.

3. He must attain a grade point average of 1.5 for his First and Second Class years.

4. He must earn a minimum of sixty-four semester hours of credit.

5. He must complete his final work at the Institute.

#### Academic Probation, Suspension, and Dismissal

A First or Second Classman must pass nine hours of work per semester, or be placed on academic probation.

If a cadet is on academic probation for two successive semesters, he is liable to suspension.

A Cadet who fails all courses in one semester is suspended.

Upon academic suspension, a Cadet must apply for re-admission to the Institute after the lapse of one semester. Two academic suspensions are considered sufficient cause for honorable dismissal.

Following readmission after suspension, a Cadet is on probation, and must redeem himself from this status in one semester, or be subject to honorable dismissal.

#### Deans' List Prerequisites

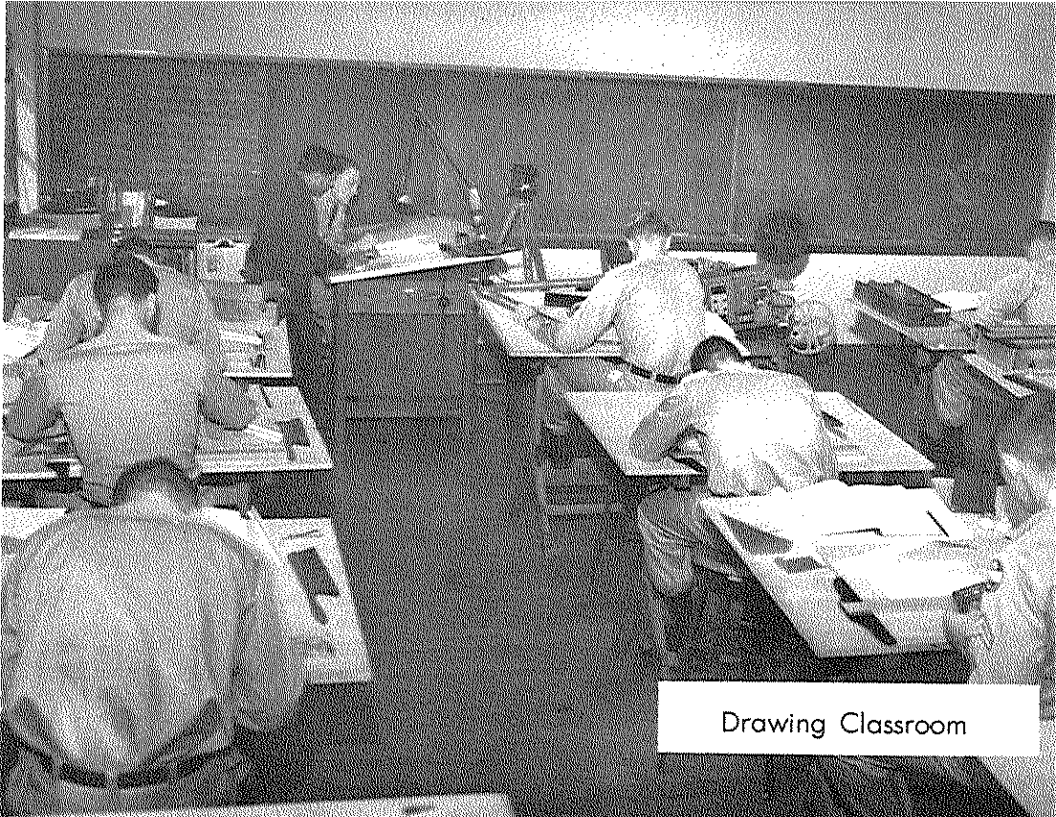
A Cadet must attain a grade point average of 3.00 or better, with no failing grades, computed as follows:

(1) For First and Second Classmen, on not less than fifteen semester hours for the preceding grading period, nine weeks for a privilege and a full semester for a furlough.

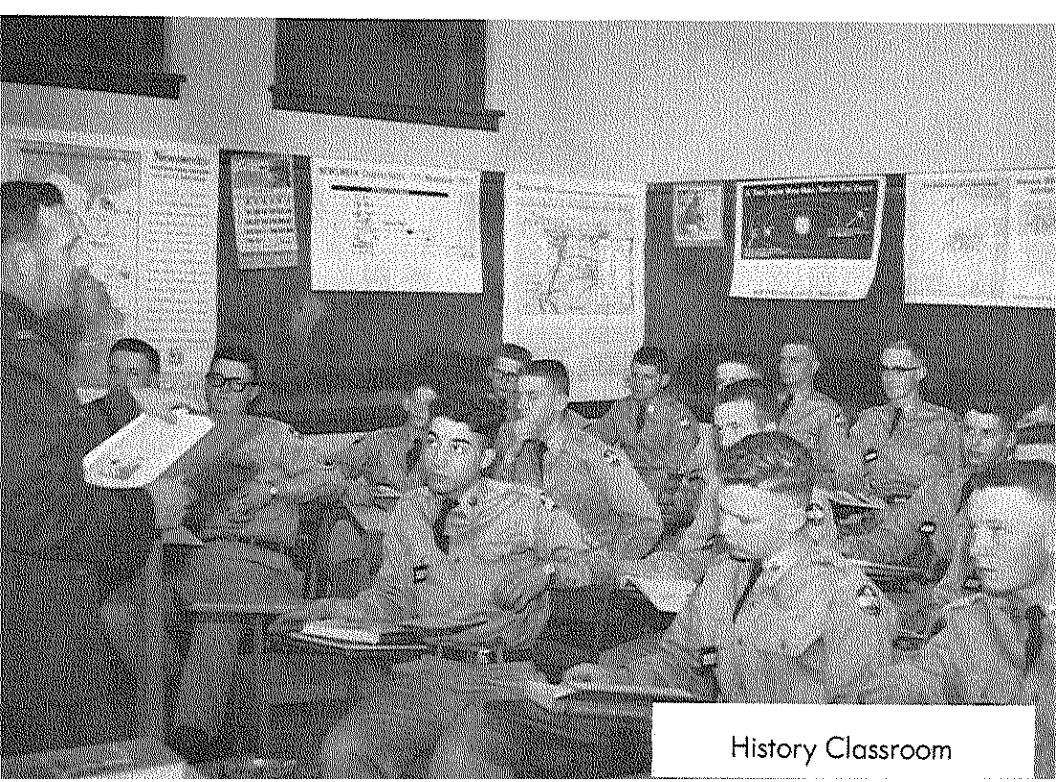
(2) For Third, Fourth, and Fifth Classmen, on not less than four subjects for the preceding grading period, six weeks for a privilege and a full semester for a furlough.

#### Armed Forces Credit

The credits earned by a student as a member of the Armed Forces are determined by a committee consisting of the Dean, the Registrar, and the Professor of Military Science and Tactics.

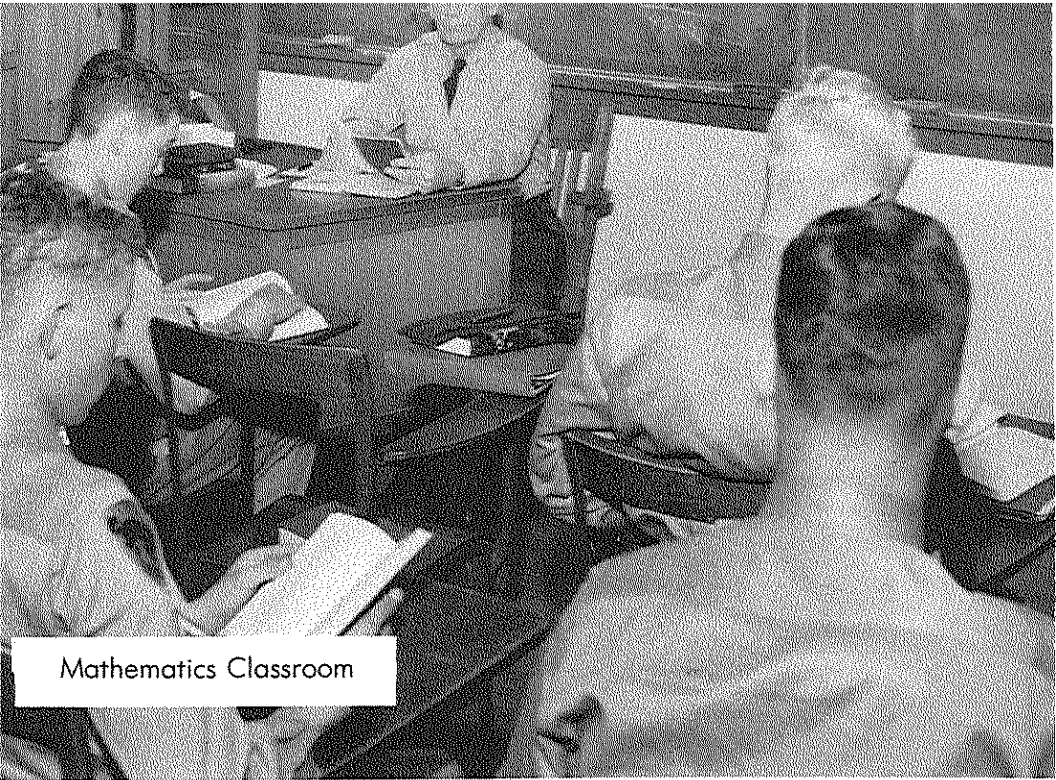


Drawing Classroom

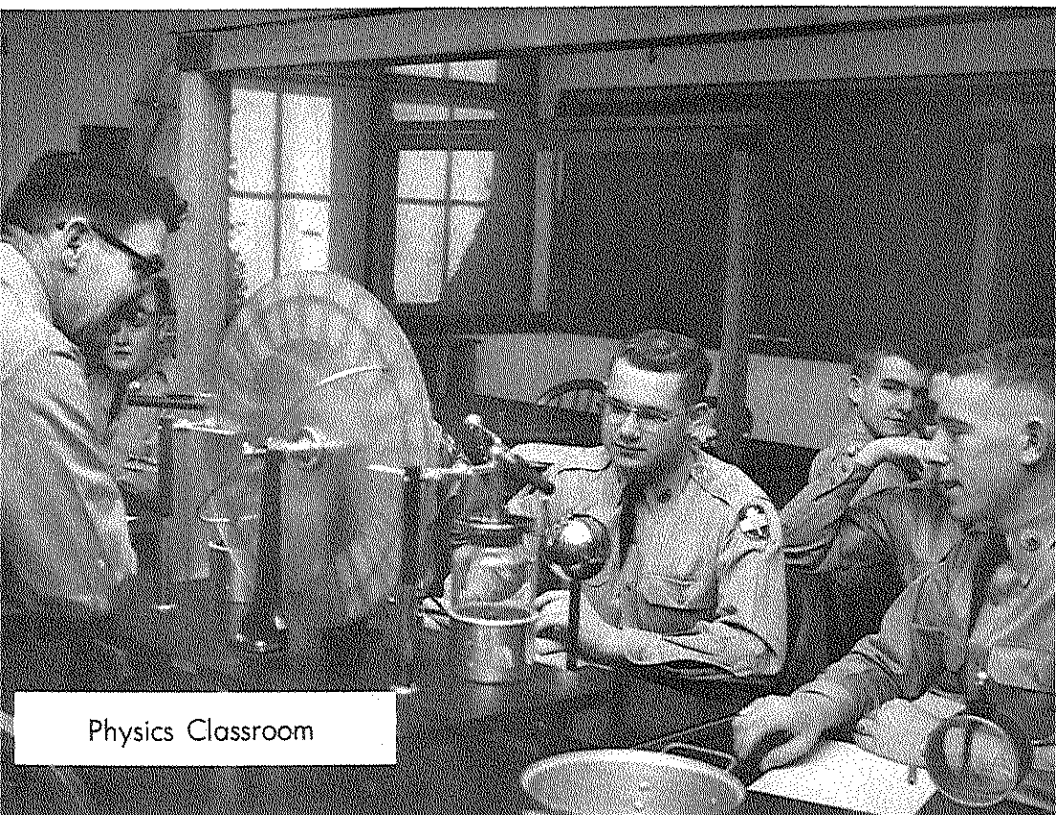


History Classroom





Mathematics Classroom



Physics Classroom

Proposed Curricula for First and Second Classmen

LIBERAL ARTS

First Year	Second Year
English 111-112	English 221-222
History 101-102	Economics - History - Government
Modern Language	Psychology - Sociology
Science or Mathematics	Modern Language (2nd Year)
M.S.T. 1 & 2	History 211-212 or Govt. 211
	M.S.T. 3 & 4

ENGINEERING

English 111-112	Mathematics 221-222
Chemistry 113-114	Physics 213-214
Mathematics 117 or 121	Mathematics 241-242
Physics 107	English 223
M.S.T.	History 211-222 (Govt. 211)
	M.S.T.

PRE-LAW

English 111-112	English 221-222 or 235-236 or other Lit.
History 101-102	History 211-212
Mathematics 113-114	Government 211
Chemistry 111-112 or Phys. or Biol.	Bus. Administration 211
Modern Language	Modern Language
M.S.T.	M.S.T.

PRE-MEDICINE — DENTISTRY — PHARMACY

English 111-112	Physics 111-112
Chemistry 111-112 or 113-114	Chemistry 211-222
Mathematics 113-114	History 211-212 or Govt. 211
Biology 111-112	M.S.T.
M.S.T.	

PRE-BUSINESS

English 111-112	History 212
Laboratory Science	Economics 212
Intro. to Bus.	Bus. Adm. 212 (Acctg.)
Elective (Language or Social Science)	Bus. Adm. 216 (Bus. Law)
M.S.T.	Bus. Adm. 224 (Statistics)
Second Half Year:	M.S.T.
Bus. Math or equiv.	Elective: Psych. 212, Language, English
Elective: Social Science or Math.	

**PRE-AGRICULTURE**

English 111-112	Chemistry 211
Mathematics 111 or 113	Biology 212
Chemistry 111-112	Biology 224
Biology 151-152	History 211-212
Biology 109-110	Biology 111-112
M.S.T.	M.S.T.

**SERVICE ACADEMIES**

English 111-112	English 223 & 3 more hours
History 101-102	Physics 213-214 or 111-112
Chemistry 111-112 or 113-114	Mathematics 221-222 or 114-115
Mathematics 121 or 111-113 or 117-118	Mathematics 241-242 or Modern Language
Mathematics 141-142 or Modern Language	Mathematics 130 or Physics 217
M.S.T.	History 211-212 (Govt. 211) M.S.T.

**The Third, Fourth, and Fifth Classes**

A pattern of general education dominates the course offerings for Third, Fourth and Fifth Classmen. Although some students choose certain vocational courses, such as mechanical drawing, typewriting, and bookkeeping, the instructional aims are directed primarily toward preparation for successful work in the First and Second Classes. Its controlling aim, therefore, is the preparation of Cadets for college continuance.

The work stresses the cultivation of proper study habits and the elimination of basic difficulties in reading and mathematics. Believing that hitherto undetected reading difficulties often impede the student's progress, the Institute offers corrective and developmental reading when careful tests reveal the need.

A Certificate of Completion is granted to Cadets who satisfy all requirements (see pages 37 and 38).

**Academic Requirements for Admission**

The Academic program at the Institute begins with the tenth grade. A candidate for admission must present a properly attested certificate, showing that he has completed the work of the ninth grade with a minimum of three acceptable

units, one of which must be ninth grade English. The certificate must contain a statement of honorable dismissal, must be from an approved high school, and must give information as to the quality of work done in each subject.

A blank Certificate of Recommendation, on which the record should be submitted, will be sent upon request to the Director of Admissions. Ordinarily, this blank will determine the classification of the candidate. The Institute reserves the right to require supplementary work if it is necessary.

### Examination and Reports

Grades are determined by daily recitations and by written tests given as the instructors deem advisable. Reports are issued each six weeks, and are sent to parents and guardians. At the end of each year, examinations may be given on the work of the year. The conduct of the cadet is indicated by the department grade entered on his report.

### Promotion

Upon completion of a given number of academic credits, promotion to the next higher class is made at the end of each year. No credit will be given in a subject when the average falls below D. In the case of a required subject, the course must be repeated.

If a student has an insufficient number of credits to secure promotion, he is allowed to proceed with the next higher courses in those subjects in which his work has been satisfactory. No cadet will be allowed to take more than four subjects without special permission. In case permission is given, the extra subjects must be dropped if the quality of work done falls below standard.

For purposes of registration, a cadet who has earned seven academic units of credit shall be classified as a Fourth Classman, and one who has eleven academic units of credit shall be classified as a Third Classman.

### Minimum Size of Recitation Sections

No recitation section will be offered unless the enrollment is eight or more. Exceptions may be made upon recommendation of the Divisional Chairman with the approval of the Dean and the Superintendent.

Summary of Course Offerings  
for the Third, Fourth, and Fifth Classes

“A” designates the 1st half of a year course; “B”, the 2nd half.

ENGLISH

English II, A & B; III, A & B; IV, A & B (B may be taken before A)  
English IV-L—either semester—with Public Speaking, may be substituted for  
English IV.  
Developmental Reading—either semester—no credit

SOCIAL SCIENCE

History I (Ancient and Medieval)  
History II (Modern)  
History IV (American History)  
Economics—either semester  
High School Geography—either semester  
Government—either semester  
History III (English History)—either semester

MATHEMATICS

Algebra I, A & B  
Plane Geometry, A & B  
Algebra II, A & B  
Trigonometry, either semester  
Solid Geometry, either semester  
High School Geography—either semester

LABORATORY SCIENCE

Biology  
Chemistry  
Physics

NON-LABORATORY SCIENCE

Physiology—either semester (5th class only)

FOREIGN LANGUAGE

Latin I, II, III or IV  
Spanish I, II, III or IV  
German I, II  
French I, II

PROFESSIONAL AND VOCATIONAL

Mechanical Drawing (not for 5th classmen)  
Typing (not for 5th classmen)  
Bookkeeping (not for 5th classmen)

MILITARY TRAINING

MST I, II, III, IV (To be assigned by the PMS&T, or his assistants)

### Requirements for Certificate of Completion of the Third Class

Sixteen units of credit are required, one of which may be Military Science. Twelve of the sixteen units are required, as outlined below. Two of the additional units must be selected from foreign language, mathematics (not including arithmetic or bookkeeping), laboratory science (chemistry, physics, or biology), history (Ancient and Medieval, Modern, or English), and American Government.

English	4 units
Mathematics	2 units
First Year Algebra	
Plane Geometry	
Social Sciences	2 units*
*United States History required	
Foreign Language	2 units
(both units in same language)	
Laboratory Science	2 units
(Biology, Chemistry, or Physics)	
	12 units

The effective date of requirements outlined on this page is for the academic year 1959-60. Exception may be made upon recommendation of the Division Chairman, with the approval of the Dean and Superintendent, for Cadets enrolled in the Institute prior to the academic year 1958-59.

Cadets preparing for the United States Military Academy should take two years of Algebra and one of Plane Geometry. The United States Naval Academy also suggests two years of Algebra and one of Plane Geometry. Trigonometry and Physics are recommended.

### Residential Requirements

The Institute Certificate of Completion of the Third Class is granted to Cadets who have satisfactorily completed sixteen units of high school work, four of which normally are to be completed during a full year at the Institute. However, a well-qualified candidate may be admitted to the Institute with fourteen units, and he may also begin his Second Class studies.

The final two high school units must be completed during two full years of residence as a Third, Second, and/or First Classman. Upon recommendation of the Dean and approval of the Superintendent, the Institute Certificate will be granted.

A unit of credit is the amount of work done in one subject during a school year of not less than thirty-six weeks, with five recitations a week of not less than forty minutes

each. Periods at the Institute are fifty-five minutes in length.

Students who have fulfilled all high school requirements, have earned recommending grades, and have chosen their electives in accordance with university requirements, will be admitted upon certificate to the Second Class or to most colleges that admit students without examination.

### **Grading System for the Third, Fourth, and Fifth Classes**

The marking system is based upon an alphabetical scale with D as passing, C as recommending, and B or A as honor grades. In order to be recommended for entrance into the Second Class, or to another college or university, a preparatory student must earn recommending grades in ten of the sixteen units required for the Certificate of Completion. An increasing number of colleges and universities specifies both qualitative and quantitative requirements for admission.

A Cadet who fails to attain the grade of D in two or more subjects in the work of the first five six-weeks' periods, will be automatically confined to the campus for two weeks. In addition, any Cadet doing unsatisfactory academic work in any subject may be confined at any time at the discretion of his teacher or the Assistant Dean.

### **Conditional Grades**

When in a year course a student receives a conditional grade (U) for the first semester, he may obtain credit for the whole year course by making a sufficiently high grade in the second half to make the two semesters average D or higher.

### **Requirements for Certificate of Completion of the Third Class**

Three or more units in each of the main fields of learning are offered: English, mathematics, physical science, social science, and foreign language; and also three units in vocational studies. Ordinarily, this distribution will take care of individual educational plans, and assures the Cadet who completes the Third Class of a foundation for useful citizenship.

No more than four units of work done in the freshman year (ninth grade) may be counted toward graduation.

At least four of the sixteen units must be acquired while in residence at the Institute.

Credit will not be allowed or accepted for physical education, music, band, chorus, glee club, orchestra, art, or religion. A limited number of credits may be allowed for vocational courses.

Credit will not be allowed for more than one and one half units of work done in any one year in summer school, whether the work be taken before or after matriculation at the Institute.

Transcripts of credit will not be accepted from correspondence departments or schools for work done after matriculation at the Institute.

Any Third, Fourth or Fifth Classman who withdraws from the Institute during the last four weeks of a semester, for any reason other than illness or an emergency in his family, will not be allowed to complete the semester's work elsewhere for credit at the Institute.



## THE DIVISION OF ENGLISH AND LANGUAGES

Lieutenant Colonel A. N. Carter, Division Chairman

Lieutenant Colonel P. H. Gratton, English Department Chairman

Lieutenant Colonel G. M. Sayre, Languages Department Chairman

Major D. H. H. Starr, Major James W. Branch, Major Eugene J. Fox, Captain Albert E. Scott, Captain Ralph Haywood, Captain Norman Cleveland, Captain Russell D. McKinney, Captain Charles Wheeler, Captain John S. Williamson, Captain Woodrow W. Boone.

The Division aims to orient its students in their own and related languages and literature. It encourages the use of language as a requisite for modern life, its immediate purpose being to develop communication to a practical, adult level.

Courses within the division stress grammar, rhetoric, and the development of vocabulary. Literature as an expression of man's cultural heritage is also emphasized.

### The English Department

Courses are planned to develop a student's ability to express himself with competence and confidence. They offer the student an opportunity to become acquainted with great literature of the past and present.

#### English Ia and Ib

The parts of speech, general grammar and sentence structure. Theory and practice of composition. Vocabulary building, spelling, and reading comprehension are emphasized. The course is offered to meet special circumstances only.

#### English IIa—First semester.

Fundamentals of English grammar and composition; vocabulary study; oral reports and written themes required. Outside reading and use of the Library stressed.

#### English IIb—Second semester.

Introduction to world literature, from ancient to modern times. Stress on reading ability and appreciation.

#### English IIIa—First semester.

Composition. Letter writing, including business and advertising letters; formal and informal personal letters; vocabulary building; themes based on current affairs. Spelling and functional grammar reviewed.

**English IIIb—Second semester.**

Types of American literature and the forces behind them; the short story; the novel; poetry. Supervised use of the Library, including biographical and historical materials.

**English IVa—First Semester.**

Readings from Anglo-Saxon times to Victoria include lyrics, essays, drama, biography, and other prose. Some analysis of style, especially figurative language. Oral reading and vocabulary study.

**English IVb—Second Semester.**

Victorian and modern literature, with emphasis on important writers of poetry and the novel. Grammar review, vocabulary study, frequent short compositions, with one formal research paper for the semester.

**English IV-L.**

One semester. Condensed course in English literature with emphasis on Nineteenth and Twentieth century writers. Historical backgrounds emphasized. This course may be combined with one semester of public speaking for one credit in fourth year English.

English IV includes the conventional survey of English literature, for college preparatory students. A one-semester course in public speaking followed by a condensed course in English literature may substitute for the full year of English literature.

**Developmental and Corrective Reading—Either semester. No Credit.**

For students deficient in reading ability. Developmental and corrective reading is taught individually. Films and other aids employed. Stress on techniques of study.

**Public Speaking—Either semester.**

One-half unit of credit, open to Third classmen only. Basic principles of speech; pronunciation, enunciation and voice placement; occasional speeches and panel discussions. Tape recorders used as aids.

**Debating I—Second Semester only.**

Prerequisite public speaking. Principles and practices of formal debate. This course does not fulfill any of the English requirements for graduation.

**English 10—English workshop. Sem. I-II. No Cr.**

All students may attend this class for aid in composition. Students may be ordered to the workshop from all courses for correcting weakness in expression.

**English 111-112—Freshman communication. Sem. I-II. Cr. 3-3.**

Practice in writing, reading, and speaking; growth of vocabulary; critical reading and discussion; outlining and note-making; use of Library materials, report writing.

**English 204—Technical Writing. Sem. II. Cr. 3.**

Reports, analyses, abstracts, and articles on specialized subjects. For students in science or business administration. Frequent use of the Library; bibliographical procedure. Prerequisite: English 111-112.

**English 212—Shakespeare. Sem. II. Cr. 3.**

Six or more plays, representing comedy, history and tragedy. Supplemented by Elizabethan and Jacobean backgrounds. Prerequisite: English 111-112.

**English 221-211—English Literature. Sem. I-II. Cr. 3-3.**

Types of literature as well as periods of historical development. First semester. Beowulf to pre-Romanticism; second semester, Romanticism to present. Prerequisite: English 111-113.

**English 223—Public Speaking. Sem. I or II. Cr. 3.**

Principles of public speaking, and various types of public address. Emphasis on clear, competent expression. Tape recordings for individual study. Prerequisite: English 111-112.

**English 231—Introduction to Drama. Sem. I Cr. 3.**

Dramatic art from Aeschylus to the present. Collateral reading includes reviews and critical appreciations.

**English 235-236—American Literature. Sem. I-II. Cr. 3-3.**

Writing from the Colonial period to the present, with emphasis upon the chief figures. Considerable use of the Library. First semester, from the English colonial beginnings to Whitman; second semester, from Whitman to the present. Prerequisite: English 111-112.

## The Languages Department

Training is given in French, German, Latin, and Spanish. Foreign language is required for the bachelor of arts degree, and is elective for the bachelor of science. Language is ordinarily required in graduate study.

### French

French is the language of cosmopolitan Europe, and is widely known in the Americas, from Canada throughout South America. It is one of the languages required in graduate study, and is essential in the diplomatic service.

**French Ia—First semester.**

Reading and writing of simple French; phonetics; dictation; elementary conversation; drill in pronunciation; fundamentals of grammar.

**French Ib—Second semester.**

Continuation of the first semester.

**French IIa—First semester.**

Review of the elements of grammar and composition; dictation; conversation; extensive readings.

**French IIb—Second semester.**

Continuation of the first semester.

**French 111-112—Elementary French. Sem. I-II. Cr. 3-3.**

A sequence course. Students who offer two units of high school French for entrance receive half-credit for this course. Elements of grammar, pronunciation, conversation; exercises in composition and translation.

**French 113-114—Phonetics laboratory. Sem. I-II. Cr. 1-1.**

Wire or tape recorders, language records and other media used; stress on pronunciation. Recommended for those entering foreign service; required for French majors. May be taken with French 211-212 with consent of instructor. Two hours per week. Laboratory fee: \$3 per semester.

**French 211-212—Intermediate French. Sem. I-II. Cr. 3-3.**

A sequence course. Extensive reading, translation, conversation. Collateral reading of 500 pages per semester; written reports. Prerequisite: French 112, or satisfactory grade on placement test following two years of high school French.

**French 213-214—Composition and conversation. Sem. I-II. Cr. 2-2.**

A sequence course. Comprehensive grammar review; stress on composition, conversation, acquisition of adequate vocabulary. Normal co-requisite: French 211-212.

**French 251-252—Introduction to French literature. Sem. I-II. Cr. 3-3.**

Survey of chief authors and movements in French literature, conducted largely in French. Credit for either semester. Prerequisite: French 212 and 214, or equivalent from an accredited school.

## German

German, the fourth most important modern European language, is of especial use to students in science and philosophy. It is almost universally required in graduate study, in any field of endeavor. In science, social science, or literature, German is indispensable.

**German Ia—First semester.**

Fundamentals of grammar presented inductively through simple texts; vocabulary study, with stress on pronunciation. A few traditional songs are learned and sung.

**German Ib—Second semester.**

Emphasis upon reading and translation into good idiomatic English. Written translations required.

**German IIa—First Semester.**

Review of, and further elaboration of grammar, composition and conversation, with stress on reading. Additional songs are learned and sung.

**German IIb—Second semester.**

A continuation of the first semester.

**German 111-112—Elementary German. Sem. I-II. Cr. 3-3.**

A sequence course. Students with two units of high school credit given half credit for this course. Comprehension and oral proficiency stressed, as well as reading ability.

**German 113-114—Phonetics laboratory. Sem. I-II. Cr. 1-1.**

Wire recording equipment, language records and other media employed; practical speaking. Normally concurrent with German 111-112. Two hours per week. Laboratory fee: \$3 per semester.

**German 211-212—Intermediate German. Sem. I-II. Cr. 3-3.**

Further grammatical and language study; stress on effective reading. Prerequisite: German 111-112, or satisfactory grade on placement test following two years of high school German.

**German 213-214—Elementary Composition and Conversation. Sem. I-II. Cr. 2-2.**

A sequence course; practical spoken and written German supplementing German 211-212; Prerequisite: German 111-112; corequisite: German 211-212.

**German 222—Scientific German. Sem. II. Cr. 3.**

Reading and translation of scientific and technical literature. Prerequisite: German 211. Offered instead of German 212 when demand warrants.

**German 251—Survey of German literature. Sem. I. Cr. 3.**

Literature from early beginnings to 1780; pseudoclassicism, Enlightenment, and Sturm und Drang. Reports. Recommended for those entering foreign service. Prerequisite: German 212 or 222.

**German 252—German literature, continued. Sem. II. Cr. 3.**

Literature from Classicism to the present. Reports. Recommended for those entering foreign service. Prerequisite: German 212 or 222.

## Spanish

Six years of Spanish are offered. Practical aspects of the language emphasized. Many recitations are conducted in Spanish, with considerable sight reading and translation.

**Spanish Ia—First semester.**

Stress on basic, useful vocabulary; conjugations, applied to everyday sentences. Attention paid to the Latin American variant of the Castilian tongue.

**Spanish Ib—Second semester.**

Emphasis is increased on idiomatic language, sentence writing, and simple oral composition.

**Spanish IIa—First semester.**

Grammatical study applied to various readings. Tenses, idioms, and constructions. Stress on comprehension and practical, idiomatic discourse.

**Spanish IIIa and b.**

Advanced composition and reading (Alternates with Spanish IVa and b).

**Spanish IIIa—First semester.**

Grammatical review; reading, with grammatical background stressed, in the latter part of the semester.

**Spanish IIIb—Second semester.**

Grammar, reading and conversation. Short stories by Spanish authors used as basis for cultural study as well as conversation. One Spanish novel, and one formal paper, required.

**Spanish IVa—First semester.**

Reading and conversational course, with grammar as needed. As far as practicable, all work done in Spanish.

**Spanish IVb—Second semester.**

Oral and written reports; reading from Spanish-American literature; continuation of discussions in Spanish.

**Spanish 111-112—Elementary Spanish. Sem. I-II. Cr. 3-3.**

A sequence course. Students who offer two units of high school Spanish given half credit. Essentials of grammar; reading, pronunciation, and writing stressed.

**Spanish 113-114 Phonetics laboratory. Cr. 1-1.**

Wire recorders, records, and other media aid the student in aural-oral drill. Required of Spanish majors. Normally concurrent with Spanish 111-112. Laboratory fee: \$3 per semester.

**Spanish 211-212—Intermediate Spanish. Sem. I-II. Cr. 3-3.**

A sequence course. Extensive readings; translation; conversation. Written reports. Prerequisite: Spanish 112, or satisfactory grade on placement test.

**Spanish 213-214—Composition and conversation. Sem. I-II. Cr. 2-2.**

A sequence course. Comprehensive grammar review; composition; conversation; stress on vocabulary. Normal corequisites: Spanish 211-212.

**Spanish 231—Mexican literature. Sem. I. Cr. 2.**

A course for well-prepared students, conducted in Spanish. History, outstanding authors, important literary movements.

**Spanish 251-252 Survey of Spanish literature. Sem. I-II. Cr. 3-3.**

Chief authors and movements in Spanish literature, conducted in Spanish. Recommended for foreign service students. Credit for either semester. Prerequisite: Spanish 212 and 214, or equivalent.

## Latin

Latin as the foundation for modern English, as well as a language of great academic and cultural value, is widely recognized. It is the basis of scientific vocabularies, but it also offers the student an opportunity to learn some of the masterpieces of Western culture.

### Latin Ia—First Semester.

Grammar; vocabulary; translation from Latin into English and from English into Latin. Drills and exercises are designed for beginning students.

### Latin Ib—Second semester.

Continued translation; further development of resources of grammar and vocabulary.

### Latin IIa—First semester.

Review of first-year Latin; translations of stories from Roman history, the Adventures of Ulysses, the Labors of Hercules, the Quest of the Golden Fleece.

### Latin IIb—Second semester.

Translation of parts of Caesar's Commentaries, prose composition.

Latin IIIa and b (Alternates with Latin IVa and b).

### Latin IIIa—First semester.

Stories from Sallust's Catiline; Cicero's First and Third Orations against Catiline, and his Oration against Verres. Reviews of forms and syntax.

### Latin IIIb—Second semester.

Stories from Ovid's Metamorphoses; special emphasis upon the scansion and reading of dactylic hexameter.

### Latin IVa—First semester.

Books, I, II, and III (in part) of the Aeneid; The hexameter; mythology.

### Latin IVb—Second semester.

Continuation of the Aeneid; continued emphasis upon the hexameter.

## THE DIVISION OF SCIENCE AND MATHEMATICS

Lieutenant Colonel William C. Roudebush, Division Chairman  
Major J. Bryan Ellis, Physical Sciences Department Chairman  
Major Charles S. Whitney, Mathematics Department  
Chairman  
Major James H. Sikes, Biological Sciences Department  
Chairman

Major Harry D. Blake, Major Wayne Foreman, Colonel G. Seth Orell, Major Paul Mount-Campbell, Major Grant N. Nelson, Major Fred A. Miller, Captain William C. Payne, Captain William F. Harris, Captain John R. Micklich, Captain James J. Castagna, Captain Robert A. MacArthur, Captain James C. Chorn.

Development in the student of a fuller knowledge of the world, and appreciation of the scientific method, are the chief aims of the division. The student in pre-engineering, pre-medicine, and pre-agriculture, or pre-science will find small classes and well-equipped laboratories for his work.

### Geography

Pertinent data on climate, land and water areas, natural resources, the races of mankind, and regional provinces, afford basic factual matter from which the student may expand his understanding of his world. Geography moves across the boundaries of both the social and physical sciences.

**Geography I**—Either semester; one-half unit of credit.

Physical, economic, and political aspects of the world. Major land areas of the world, with emphasis on the United States.

**Geography 109**—Principles of Geography. Sem. I. Cr. 3.

Physical phases of geography, and the application of principles to selected regions of the world. Prerequisite to other courses in Geography.

**Geography 111**—Economic Geography. Sem. I or II. Cr. 3.

The foundation and products of industry and commercial movements; geographical influences on human activities. Recommended for business administration students. Prerequisite: Geography 109.

**Geography 214**—Meteorology and Climatology. Sem. II. Cr. 3.

Study of the atmosphere; nature and functions of the meteorological elements; climates; relationship between climate and man. Prerequisite: Geography 109.

**Geography 215**—Geography of North America. Sem. I. Cr. 3.

Regional geography stressing physical, economic and cultural aspects. Prerequisite: Geography 109.



## Geology

The detailed and systematic study of processes by which rock structures and topographic features of the land and the sea bottom have come into being. Basic theories have both cultural and practical value. Textbook material supplemented by study of specimens, field work, use of maps and models.

**Geology 111—Physical Geology. Sem. I. Cr. 4 (3+4L).**

General principles of physical geology. Laboratory exercises include study of maps and specimens; field trips illustrate weathering, desert geology, wind erosion, igneous and stratified rocks, volcanic structures, caverns. Laboratory fee: \$5.

**Geology 112—Historical Geology. Sem. II. Cr. 4 (3 + 4L).**

Evolution of the earth and its inhabitants, with special reference to North America. Introductory study of fossils, including laboratory exercises on fossils found on field excursions into Permian, Jurassic, Triassic, and Cretaceous areas of New Mexico. Prerequisite: Geology 111. Laboratory fee: \$5.

**Geology 211—Mineralogy, Crystallography and Blowpipe Analysis. Sem. I. Cr. 4 (2 + 6L).**

Study of crystal models and natural crystals. Experimental work on known and "unknown" minerals leads to study of determinative mineralogy. Color-blind students may not register. Prerequisite: Geology 111. Laboratory fee: \$10.

**Geology 212—Determinative Mineralogy. Sem. II. Cr. 4 (2 + 6L).**

Metallic and non-metallic minerals (approximately 200 minerals studied). Physical properties and characteristics. Prerequisite: Geology 211. Laboratory fee: \$10.

## Department of Biology

Presentation of the fundamentals of biology and practice in the applications of the scientific method are the aims of the Department. Sound preparation for the study of medicine or dentistry, as well as for the biology major, are matters of concern, and courses for the non-technical student are also offered.

**Biology Ia—First semester.**

The course considers the difference between living and non-living things, classifications of plants and animals. Use of compound microscope. Representative plants and simple animals are studied; dissection of higher forms begun.

**Biology Ib—Second semester.**

Life function carried on by plants and animals. Dissection of higher animal forms continued. Simple experiments concerning life functions (digestion, metabolism, etc.) are begun.

**Physiology I—Either semester; one half unit of credit.**

An introduction to the human body; heredity; skeletal, muscular, digestive, respiratory, circulatory and sensory and nervous systems. Stress on social aspects of hygiene.

**Biology 101-102—General Biology. Sem. I-II. Cr. 3-3. (2 + 2L.)**

Fundamental principles of biology, including a brief introduction to the major groups of plants and animals. Designed as a terminal course, but may serve as an introduction to more advanced courses. Laboratory fee: \$7.50 per semester.

**Biology 109-110—General Botany. Sem. I-II. Cr. 4-4 (3 + 4L.)**

Structure and functions of typical spermatophytes, including the structure of leaves, stems, roots, flowers, seeds and fruits; photosynthesis, growth and reproduction.

Second semester: survey of the entire plant kingdom, including structure, function, reproductive cycles, economic importance of various plants. Introduction to advanced courses in plant sciences and soils. Second semester not required to earn credit for first semester. Laboratory fee: \$7.50 per semester.

**Biology 111-112—General Zoology. Sem. I-II. Cr. 4-4 (3 + 3L.)**

General survey of the principal phyla of the animal kingdom; classification, structural pattern, life history and ecological relations of the groups. Some time is devoted to heredity and early development. Laboratory fee: \$7.50 per semester.

**Biology 212—Microbiology. Sem. II. Cr. 4 (3 + 4L.)**

Emphasis upon applications to industry, agriculture, and upon civic and domestic applications. Techniques stressed in the laboratory. Laboratory fee \$7.50.

**Biology 221—Insect Biology. Sem. I. Cr. 4 (3 + 4L.)**

Introductory entomology, with some attention to economic applications. Laboratory work consists of elementary morphology and taxonomy. Student collection of insects required. Laboratory fee: \$7.50.

**Biology 232—Principles of Ecology. Sem. II. Cr. 4 (3 + 2L.)**

A non-sequence course including the influence of climate, soil, and biotic factors in their relation to origin, development, and structure of plant and animal communities. Prerequisite: At least two semesters of biological science and permission of the Department Head. Laboratory fee: \$7.50.

**Biology 290—Human Physiology. Sem. II. Cr. 2.**

Designed for natural science majors and pre-medical students, but available also to others. Two hours lecture and demonstration per week.

**Biology 212, Biology 221, Biology 232 and Biology 290 will be offered only when there is sufficient demand.**

### The Department of Chemistry

Courses in chemistry teach the student how to think and how to analyze various types of problems. Sound basic knowledge of chemistry is developed through application of the scientific method. Laboratory techniques are essential to advancement in the field.

**Chemistry Ia—First semester.**

The fundamentals of chemistry; valence, the formula, the equation, solution of problems. Laws and theories of chemical and physical behavior; chemical reactions; classification of compounds. Visual aids include moving pictures.

**Chemistry Ia—Laboratory.**

About thirty experiments based on classroom topics. Student demonstration encouraged.

**Chemistry Ib—Second semester.**

Elements and their families, chemical calculations, theory of ionization, equilibrium reactions, atomic structure and the Periodic Law. Models and sound movies employed.

**Chemistry Ib—Laboratory.**

About forty experiments demonstrated or performed by students or instructor. Laboratory fee: \$10 for both semesters. (Note: laboratories open to chemistry students during the day, under direction of instructor.) Laboratory fee covers cost of chemicals, gas, etc.

**Chemistry 111-112—General Chemistry. Sem. I-II. Cr. 4-4. (3 + 3L).**

Lectures, recitations, demonstrations and laboratory work. Applications to industry, commerce, agriculture and science. For the non-science major. Introduction to organic chemistry in the second semester. Laboratory fee: \$10 per semester.

**Chemistry 113-114—General Inorganic Chemistry. Sem. I-II. Cr. 5-5.  
(3 + 4-6L).**

Required basic course for chemistry, engineering, medicine, pharmacy, agriculture and other scientific studies. Lectures, conferences, laboratory work. Molecular and atomic theories, chemical equilibrium, ionization, periodic law, common elements and their compounds. Second semester, an introduction of common anions and cations. Prerequisite: Mathematics 113, 117, or 121. (May be taken concurrently.) Laboratory fee: \$10 per semester.

**Chemistry 211—Basic Organic Chemistry. Sem. I or II. Cr. 5 (3 + 6L).**

A brief course in organic chemistry, including selected topic in the aliphatic and aromatic series for pre-medical, pharmacy and engineering students not majoring in chemistry. Prerequisite: Chemistry 112 or 114. Laboratory fee \$12.50.

**Chemistry 213-214—Elementary Organic Chemistry. Sem. I-II. Cr. 5-5.  
(3 + 8L).**

Primarily for science majors. Lectures, discussions of basic organic types of aliphatic and aromatic compounds, isomerism, structural and electronic theories of reactions. Laboratory work trains in preparative organic reactions with the chemical and physical properties related to type compounds. Prerequisite: Chemistry 112 or 114. Laboratory fee: \$15 per semester.

**Chemistry 222—Quantitative Analysis I. Sem. I or II. Cr. 4. (2 + 6L).**

Theory and use of the balance; volumetric and gravimetric apparatus; laws of precipitation; theory of indicators; solutions; theory of redox as applied to analyses; analytical calculations and interpretations. Prerequisite: Chemistry 114 or 121 and Mathematics 122. Laboratory fee: \$7.50.

**Chemistry 223—Quantitative Analysis II. Sem. II. Cr. 4. (2 + 6 ).**

Advanced analysis including electrodeposition, electrometric, titrations, calorimetric methods and pH determinations. Prerequisite: Chemistry 222. Laboratory fee: \$7.50.

Students must pay for excessive apparatus or equipment damage.

## The Department of Mathematics

Courses in mathematics range from the development of basic skills to calculus, and are designed both for the professional engineering and scientific student and the liberal arts or business administration student. Habits of accurate and precise thinking, and logical reasoning, are stressed.

**Arithmetic I—Either semester; one-half unit of credit.**

Fundamental operations with large integers. Common, decimal, and complex fractions. Aliquot parts of 100. Problems of percentage. Denominate measurements. Computation of taxes.

**Algebra Ia and b—both semesters.**

Letters representing quantities; positive and negative numbers; polynomials; simple equations; factoring; introduction to the radical and exponential forms.

**Algebra IIa and b—(Prerequisite: Elementary Algebra).**

Review of first year algebra; numerical and literal quadratic equations, exponents and radicals.

**Algebra IIb—Second semester.**

Logarithms; use of logarithmic tables in the solution of right triangles; arithmetic and geometric series; the binomial theorem.

Algebra II a and b are equivalent of Mathematics A2, Quadratics and Beyond, as designated by the College Entrance Examination Board.

**Geometry Ia—First semester.**

Theorems, constructions, and practical applications of geometry to everyday living.

**Geometry Ib—Second semester.**

Circles, the measurement of angles, and areas; proportions and similar polygons.

**Plane Trigonometry—Either semester.**

Functions of acute angles; logarithms; solution of right triangles; graphing of functions; identities; general triangles; applications of trigonometry to algebra. Stress on applied problems.

**Solid Geometry—Either semester.**

Line and plane relations in space. Detailed attention to the prism, pyramid, cylinder and cone, with reference to their volume and practical properties. Spherical geometry occupies the latter part of the course.

**Drawing Ia—First semester.**

Use of instruments, lettering plates, geometrical construction, drawing conventions, orthographic and isometric projections. Five regular periods a week.

**Drawing Ib—Second semester.**

Oblique projections, freehand sketching, retail and assembly drawings, developments, and blueprints.

Fee: \$10 for both semesters.

**College Preparatory Mathematics—Second semester; one-half unit of credit.**

Advanced topics in algebra; analytic geometry; introduction to some of the more important topics of differential and integral calculus. Prerequisite: consent of the instructor.

**Mathematics 101—Basic Skills. Sem. I or II. Cr. 3.**

Whole numbers; fractions; lines, angles and planes; positive and negative numbers; linear equations; properties of geometric figures; ratio, proportion, and variation; percentage; elements of finance; graphs and statistical concepts. For students who, on screening test, are found deficient in background.

**Mathematics 111—Intermediate Algebra. Sem. I or II. Cr. 3.**

Not for students with more than one year of high school algebra. Signed numbers, addition and subtraction, multiplication, division; equations and stated problems; factoring; fractions; equations of the first degree in the unknown; exponents, roots and radicals; graphs; quadratic equations; ratio and variation; the binomial theorem.

**Mathematics 113—College Algebra. Sem. I or II. Cr. 3.**

Factoring, fractions, exponents and radicals, linear and quadratic equations, ratio and proportion, progressions, logarithms, the binomial theorem, permutations, combinations, probability, graphs. Prerequisite: Mathematics 111, or satisfactory grade on screening test.

**Mathematics 114—Trigonometry, Sem. I-II. Cr. 3.**

Trigonometric functions, logarithmic functions, trigonometric identities and equations, radian measure, inverse trigonometric functions, practical applications. Prerequisite: Mathematics 113. (With permission, a qualified student may take Mathematics 113 as corequisite).

**Mathematics 117—College Algebra and Trigonometry. Sem. I. Cr. 5.**

A foundation for analytical geometry and calculus. College algebra and trigonometry studied separately. For pre-engineering students whose mathematics record is average or below average; superior students should take Mathematics 121-122.

**Mathematics 118—Analytic Geometry. Sem. I-II. Cr. 3.**

Systematic study of the straight line, circle, parabola, ellipse, and hyperbola; transformation of coordinates; equations of higher degree; tangents and normals; parametric equations; polar coordinates; elements of analytic geometry in three dimensions. Prerequisite: Mathematics 113, and Trigonometry (may be taken concurrently), or Mathematics 117.

**Mathematics 121-122—Integrated College Mathematics. Sem. I-II. Cr. 5-5.**

A sequence course. For science and mathematics majors, pre-engineers,

candidates for service academies. College algebra, plane trigonometry, plane analytic geometry, elements of solid analytic geometry, introduction to calculus. Prerequisite: satisfactory grade on mathematics screening test.

**Mathematics 126—Mathematics of Finance Sem. I-II. Cr. 3.**

Simple interest and discount, compound interest, equations of value and payment, annuities, sinking funds, and amortization, bonds, depreciation and replacement, annuities, and life insurance. Prerequisite: Mathematics 113 or equivalent.

**Mathematics 130—Elementary Surveying. Sem. II. Cr. 3. (1 + 4L).**

Use of instruments; methods of field work; recording of data. The chain, compass, level, transit, and plane table used in the field. Determination of azimuth from observation on Polaris; simple curves; computation of earthwork. Prerequisite: Mathematics 114; knowledge of drawing helpful.

**Mathematics 141-142—Engineering Drawing. Sem. I-II. Cr. 2-2 (1 + 4L).**

Principles of third-angle projection; use of instruments and materials; geometry of technical drawing; lettering, projections, multiview projections, dimensioning auxiliary views and revolutions. In the second semester, sectional views, axonometric projections, oblique projections, intersections and developments, fasteners, perspective and working drawings. Laboratory fee: \$3 per semester, plus cost of individual equipment.

**Mathematics 221-222—Differential and Integral Calculus. Sem. I-II. Cr. 4-4.**

Concepts of velocity and rate of change; differentiation and integration of polynomials, with application to geometry and physics; differentiation of algebraic and transcendental functions, with further applications. Second semester: power series; partial differentiation; integration of algebraic and transcendental functions; double integrals; space coordinates; triple integrals; applications to geometry, physics, and mechanics. Prerequisite: Mathematics 121-122 or 117-118.

**Mathematics 241-241—Descriptive Geometry. Sem. I-II. Cr. 2-2. (2 + 2L).**

Principles of projection, straight lines, planes, line-and-plane relations. Second semester: Shades and shadows, perspective; curved lines and surfaces; plane sections; developments of curved surfaces; intersection of surfaces. Prerequisite: Mathematics 141-142. Laboratory fee: \$3, plus cost of individual equipment.

**Mathematics 225—Analytical Mechanics. Sem. I. Cr. 3.**

For pre-engineering students primarily. Forces and couples, the resultant of a system of forces in a plane and in three dimensions, problems in static equilibrium, trusses and cables, friction, center of gravity, moment of inertia. Prerequisite: Physics 213 and Mathematics 221.

**Mathematics 231—Architectural Drafting I Sem. I.**

Prerequisite: Engineering Drawing (Mathematics 141-142) or consent of instructor.

Basic elements of planning and construction for frame and masonry houses. Lettering, symbols and conventions, footing, foundations, sills, windows, cornices, fireplaces, stairs. Preliminary planning and drawing of floor plans, elevations and perspective. Two 2-hour periods per week needed. Credit 2 hours. Laboratory fee: \$5 per semester.

**Mathematics 232—Architectural Drafting II. Sem. II.**

Prerequisite: Architectural Drafting I.

Preparation of working drawings for a frame or masonry residence. Optional layout of rooms for each student; floor plans, elevations, details, and specifications; rendered perspective; cost estimates; term reports; illustrated lectures on kitchens, bathrooms, living rooms, dining rooms, basements. Two 2-hour periods per week. Credit: 2 hours. Laboratory fee: \$5 per semester.

**The Department of Physics**

Study of the principles governing matter and energy. Through laboratory procedures and demonstrations, the ability to describe and explain physical laws governing matter is developed. Use of the scientific method enables students to solve many of life's problems. Essential to engineering, chemistry, atomic physics, medicine, and biology.

**Physics Ia—First semester.**

A course in mechanics, molecular physics and heat organized around the concept of energy. Laws, theories, and practical industrial applications; demonstrations and special reports. Individual projects. Prerequisite: Algebra I and Geometry I.

**Physics Ib—Second semester.**

Light, sound, magnetism, electricity, electronics and nuclear physics. Laboratory experiments. Prerequisites: Algebra I, Geometry I, and Physics Ia.

Fee: \$10 for both semesters. Each student is charged in addition for broken apparatus.

**Physics 106—Engineering Orientation. Sem. I. Cr. 1.**

A survey of the principal fields of engineering. The course is of value to junior college students who are contemplating engineering as a career.

**Physics 107—Engineering Problems. Sem. I-II. Cr. 2.**

An introduction to the fundamental language of engineering and the types of elementary problems which commonly are met. The problems introduce the student to the engineering approach to the solution of problems. Logarithms and the slide rule are used extensively in problem calculations. Prerequisite: Mathematics 114 or equivalent.

**Physics 111-112—Introductory College Physics. Sem. I-II. Cr. 4-4. (3 + 2L).**

A sequence course, suitable for pre-medical students. Introductory study in mechanics, heat, electricity, sound, and light, with emphasis upon practical applications. Simple calculations required. Reports. Laboratory fee: \$7.50 per semester.

**Physics 151—Elements of Electricity. Sem. I. Cr. 3.**

Foundation for radio, television, radar, power plants, power distribution or other practical applications. Ohm's Law, power and energy, conductors, measurement of resistance, magnetism, magnetic circuits, generators, AC and DC generators, motors, batteries, Kirchoff's Law, inductance, capacitance, alternating currents, vacuum tubes, gaseous conduction. Laboratory fee: \$5.

**Physics 204—Photography. Sem. II. Cr. 3 (2 + 3L).**

Principles of photography, and importance of the medium. Proper exposure, development of film, printing, enlarging, micro-photography, color photography, preparation of slides. Student required to own a camera of at least moderate versatility. Prerequisite: Physics 111-112 or Chemistry 111-112. Laboratory fee: \$10.

**Physics 213-214—College Physics. Sem. I-II. Cr. 5-5. (3 + 4L).**

A sequence course fundamental for all engineers, science students, and pre-medics. Mechanics, molecular physics and heat. Quantitative laboratory work; minimum of 16 experiments per semester. Second semester: electricity, sound and light. Prerequisite: Mathematics 122, Mathematics 113-114, or Mathematics 117. Laboratory fee: \$7.50 per semester.

**Physics 217—Aeronautics. Sem. I. Cr. 3.**

Elementary study of the principles of aircraft design, theory of flight, instruments and engines. Prerequisite: high school physics.

**Physics 221—Physical Meteorology. Sem. I. Cr. 2.**

The atmosphere, its height and pressure, winds, precipitation, thunderstorms, cyclones. Prerequisite: high school physics, or Physics 111-112.

**Physics 223—Introductory Atomic Physics. Sem. I. Cr. 3.**

Great discoveries of the Twentieth century, beginning with electronics and culminating in atomic or nuclear energy. Prerequisite: Physics 111-112 or Chemistry 111-112.

**Physics 225—Analytical Mechanics. Sem. I. Cr. 3.**

For pre-engineering students primarily. Forces and couples, the resultant of a system of forces in a plane and in three dimensions, problems in static equilibrium, trusses and cables, friction, center of gravity, moment of inertia. Prerequisite: Physics 213 and Mathematics 221 (Same as Mathematics 225).



## THE DIVISION OF SOCIAL SCIENCE

Lieutenant Colonel Vester Montgomery, Division Chairman  
Captain Daniel S. Day, Social Studies Department Chairman  
Captain Howard G. Murphy, Business Administration  
Department Chairman

Captain Edward M. Praisner, Captain Alfred L. Long,  
Captain Donald L. Neelen, Captain Colburn B. Lovett, Cap-  
tain Ralph E. Schwint, Captain Alvin Sunseri.

The division undertakes the study of mankind in a social environment. Emphasis is placed upon man's activities, social institutions, and problems of the present day, with back-grounds and development receiving due regard. Man is viewed as a person and a creator, inheritor, and utilizer of complex social institutions in an evolving civilization—an ideational creature cooperating with others for the common benefit.

The Department of History, Government, and Economics has a three-fold objective; to provide the cultural background essential to intelligence citizenship, emphasizing our heritage and analyzing the forces which make up the modern world; to form a basis for further study, in the social sciences, the hu-manities, and in such fields as law and education; to promote facility in the oral and written communications of ideas.

### History

#### History Ia—First Semester.

The development of civilization from the earliest cultures to the beginnings of the Roman Empire. Main emphasis on the Near East, Greece, and the Roman Republic.

#### History Ib—Second semester.

From the beginning of the Roman Empire to the discovery of America. Social, economic and political institutions of medieval times; formation of modern nations. Emphasis upon social and economic conditions.

#### History IIa—First semester.

Resume of earlier history; important events in Europe from 1600 to 1870. Supplementary reading, special reports, and map exercises required.

#### History IIb—Second semester.

England after 1832 and continental Europe since 1870, including treatment of Asia, Africa, and Latin America. World War I and after. Supplementary read-  
ing, special reports, and map exercises.

**History III—English History.**

Either semester; one half unit of credit. Emphasis on England from 1066-1688, but a survey is made of the changes in the parliamentary structure through the present period; Saxon and Norman influences and the foundations of national unity; political and social developments as they affected the American Colonies; legal and constitutional transitions; especially useful for pre-law students.

**History IVa—First semester.**

Discovery, exploration, and colonization briefly treated. The Constitution and establishment of the Government. Sectionalism, westward expansion, the Civil War, Reconstruction. Supplementary reading and map exercises.

**History IVb—Second semester.**

Industrial growth, with allied social and economic problems; social, labor, and other legislation. Foreign affairs; the United States as a world power; current affairs. Supplementary reading and map exercises.

**History 101-102—The Development of Civilization. Sem. I-II. Cr. 3-3.**

The evolution of civilization from antiquity to the present. Emphasis on European civilization and its spread throughout the world; periods of the past related to contemporary problems.

**History 211-212—History of the United States. Sem. I-II. Cr. 3-3.**

Political, economic, and cultural development of the United States from colonial beginnings to the present. Second semester begins with 1865. Credit for either or both semesters.

**History 231—Development of Warfare. Sem. I. Cr. 3.**

Introduction to world military history; evolution of strategy, tactics, weapons, and organization. Important European campaigns and military leaders from ancient times through the Napoleonic period. Prerequisite: History 101-102.

**History 232—American Military History. Sem. II. Cr. 3.**

A study of the American military tradition. Detailed examination of the principal wars and campaigns since 1776. Prerequisite: History 101-102 and History 221, or permission of the instructor.

History 231 and 232 are courses of particular value to students in advanced military science.

## Government

Courses in Government deal with the origin, evolution, and characteristics of democratic institutions, ideas, and values. Understanding and appreciation of our political heritage is a controlling aim.

**American Government I—Either semester—one-half unit of credit.**

Introduction into fundamental concepts of Federal, State, and City governments. Political ideals and standards of political morality in our Democracy compared to contrasting ideologies. Latest audio-visual aids for better understanding basic premises and for interpretation of current affairs.

**Government 211—Government of the United States. Sem. I or II. Cr. 3.**

A study of our national government, dealing with the origin, nature, and development of the Constitution; organization and powers of the Presidency; administrative agencies; Congress; the Judiciary. Considered with reference to political parties, pressure groups, sectional interests, and other influences.

**Government 214—Comparative foreign governments. Sem. II. Cr. 3.**

The principles upon which the great powers of Europe base their governments. Great Britain, France, the Federal German Republic, and the USSR are examined in detail.

## Economics

Courses in economics give the student an opportunity to understand the principles that govern economic relationships in our culture; the evolution and status of economic awareness essential to good citizenship.

**Economics I—Either semester; one-half unit of credit.**

Introduction into fundamental Economic concepts. Study of the five main divisions: Consumption, Production, Exchange, Distribution and Governmental Functions. Related audio-visual aids and current affairs materials for latest trends in business world.

**Economics III—See Economic Geography III.**

**Economics 211-212—Economic principles and problems. Sem. I-II. Cr. 3-3.**

Fundamental economic concepts; principles of exchange, business organization and combination, price determination, taxation and government spending. Capitalism compared and contrasted with other economic systems.

## Psychology

The work in psychology is designed to help the student apply science to the study of human behavior, and to assist him in developing his own personality. A full understanding of the behavior of people of different ages, capacities, interests, and backgrounds should aid him to become a better citizen and parent.

**Psychology 211—General Psychology. Sem. I. Cr. 3.**

Man's native and acquired behavior patterns in relation to their contribution to the broad field of human associations.

**Psychology 212—Applied Psychology. Sem. II. Cr. 3.**

The application of psychological principles to the fields of business, law, medicine, education, and industrial efficiency, will aid him to earn a better living and enjoy a better life. Prerequisite: Psychology 211.

## Department of Business Administration

Business administration presents a program which will materially assist those going directly into business or industry upon graduation. Courses which are acceptable to senior colleges to which the cadet will transfer, and for which he has indicated specific desire, are offered. Bookkeeping and typewriting are also offered.

### **Bookkeeping Ia—First semester.**

Debit and credit as used in the journal and ledger are studied in connection with exercises. Special journals, preparation of worksheets, and financial statements for closing books at the end of a fiscal period, are prepared.

### **Bookkeeping Ib—Second semester.**

Bookkeeping required for small businesses; partnership and corporation bookkeeping; principles of budgeting. Business law, economics, taxation. A practice set with business papers is required.

### **Typewriting Ia**

Location and manipulation of the keyboard; principal parts of the typewriter and their use. Emphasis on accuracy, rhythm, development of even touch.

### **Typewriting Ib.**

Study of the business letter, term papers, and other special forms. Increased emphasis on speed and accuracy. Fee: \$10 for both semesters.

### **Business Administration 101—Typing. Sem. I or II. Cr. 2.**

The keyboard and the principal parts of the typewriter and their use. Emphasis on letter writing, preparing classroom assignments, preparation of term papers. Not for students who have credit for a similar course.

### **Business Administration 111—Introduction to Business. Sem. I. Cr. 3.**

Survey for first-year college students. Ownership, finance, personnel, marketing, managerial controls and governmental relationships.

### **Business Administration 112—Elements of Business Mathematics. Sem. II. Cr. 3.**

Instruction in elementary business mathematics. Emphasis on speed and accuracy in handling mathematical problems which arise in everyday business transactions.

### **Business Administration 211—Elementary Accounting. Sem. I. Cr. 4.**

Basic accounting, record keeping and control related to individual proprietorship. Debits and credits! recording of entries in a general journal; special journals; posting of both the general ledger and subsidiary ledgers. Trial balances, work sheets; adjusting, closing and reversing entries; financial statements.

### **Business Administration 212—Elementary Accounting. Sem. II. Cr. 4.**

Major emphasis on partnerships and corporations, and accounting problems incident thereto. Cost accounting and manufacturing accounting, branch problems and department-accounting procedures. Voucher system; balance sheets; statements of profit and loss. Analysis of financial statements.

**Business Administration 215—Business Law. Sem. I. Cr. 3.**

Basic legal principles essential to conduct of business. Elements of a contract, the competence of its parties, its execution, its assignment and consequences of its breach. Agency and the law of partnership and of corporations considered as independent subjects and in relation to the law of contracts.

**Business Administration 216—Business Law. Sem. II. Cr. 3.**

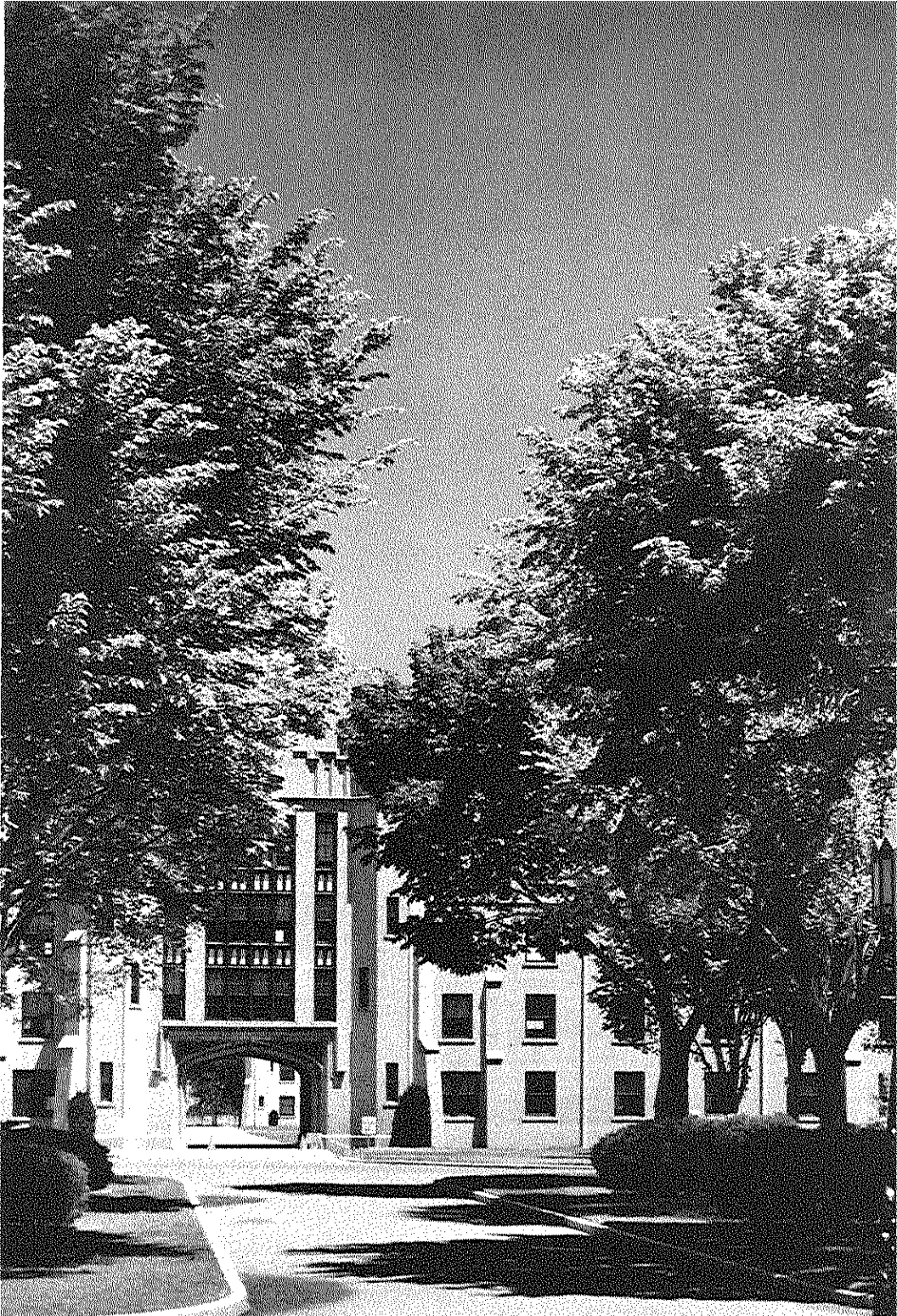
The Uniform Negotiable Instruments Law examined in detail. Sales, bailments, and carriers. Case analyses constitute a large part of discussion, classroom work, and assignments. Prerequisite: B. A. 215, or permission of instructor.

**Business Administration 223—Business Writing. Sem. I. Cr. 3.**

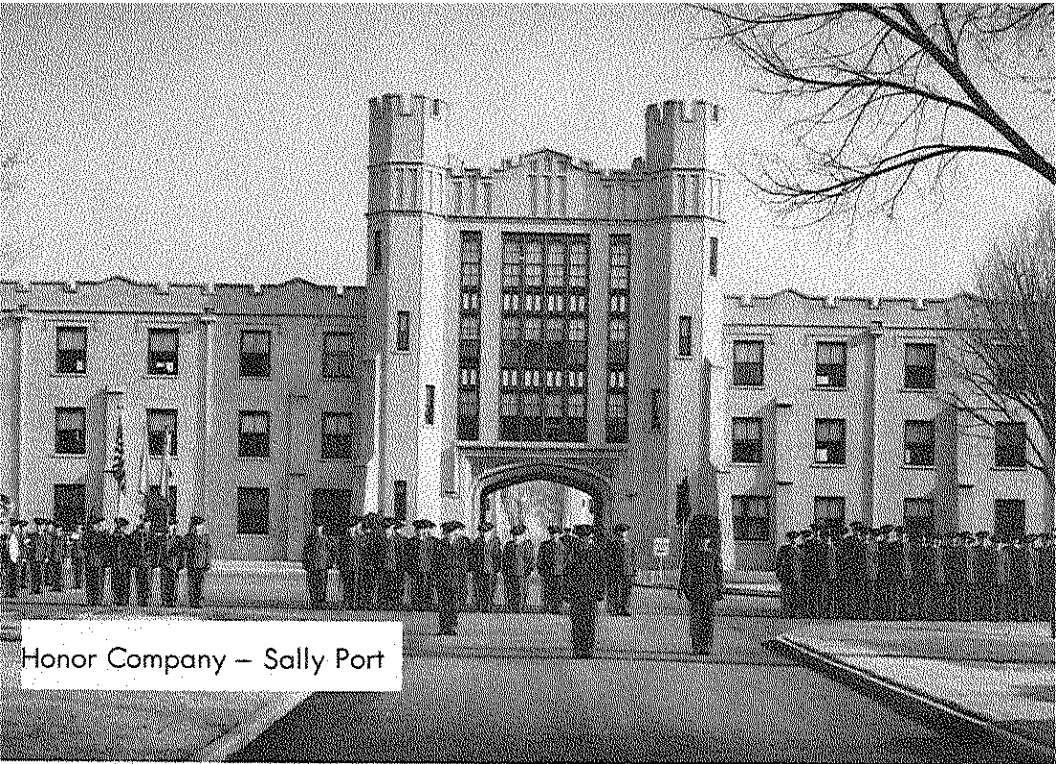
The purpose of this course is to train the business student to write effective business letters. This training involves three matters: skill in the use of English; a knowledge of business principles, practices and policies; and an understanding of human nature. Consequently as various kinds of business letters are studied, analyzed and written, these three factors are emphasized. Letters and examinations are evaluated on their English as well as their content. Prerequisite: First Class standing. Given alternate semesters.

**Business Administration 224—Business statistics. Sem. II. Cr. 3.**

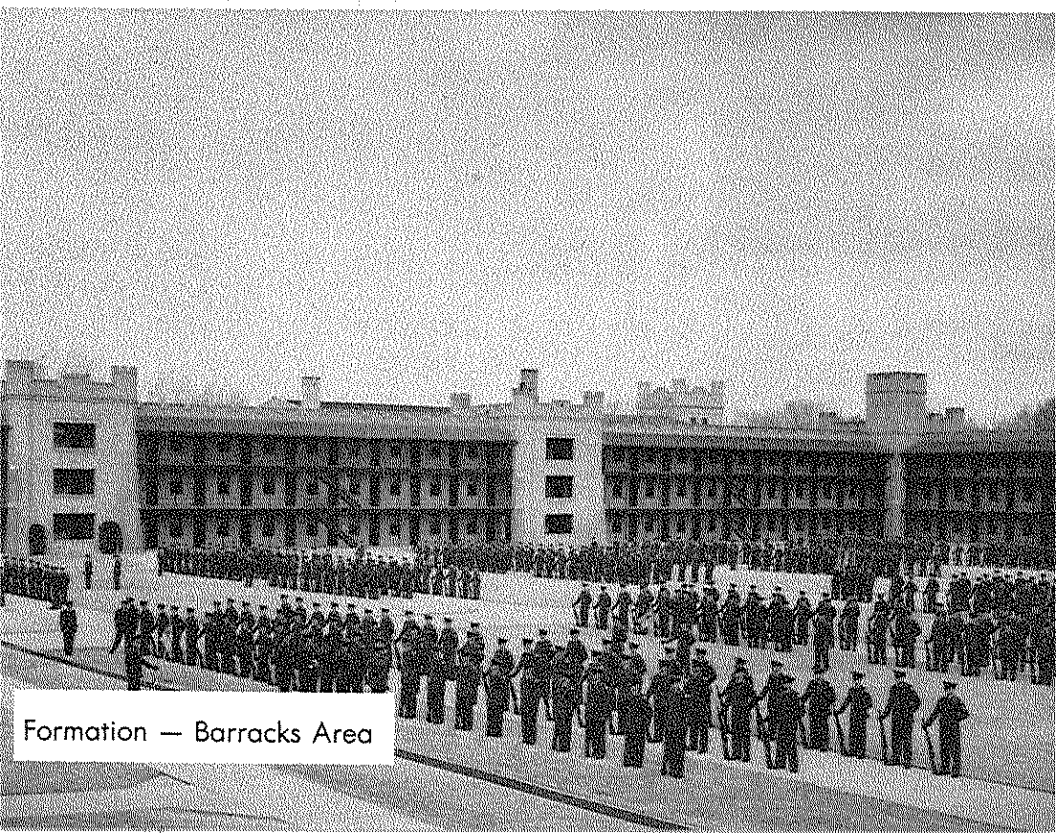
The purpose of this course is to develop a knowledge of basic statistical concepts which are commonly used by business men. Topics covered include: collection of statistical data; presentation of data in reports, tables and graphs; construction and use of index numbers; analysis of data through the use of the frequency distribution, measures of central tendency, measures of dispersion; measure of secular trend, cyclical movements and seasonal forces. Emphasis is placed on the application of statistical concepts to the solution of practical business problems. Mathematical treatment is reduced to simplest terms consistent with the objectives of the course. Prerequisite: First Class standing. Given alternate semesters.



Sally Port — Barracks



Honor Company – Sally Port



Formation — Barracks Area

## DEPARTMENT OF MILITARY SCIENCE AND TACTICS

### Military Staff Officers

Colonel Robert E. O'Brien, Armor, Professor of Military Science and Tactics.

Major Robert T. Martin, Armor, Assistant PMST.

Captain Guy K. Troy, Armor, Assistant PMST.

Captain Ken A. Davis, Armor, Assistant PMST.

### Non-Commissioned Officers

MSgt James F. Gambill, Sergeant Major.

MSgt Emmett W. Day, Instructor.

MSgt Harold E. O'Neil, Instructor.

MSgt J. W. Athey, Instructor.

SFC Dock D. Kimbrell, Instructor.

SFC Jack W. Lance, Instructor.

SFC John B. Phillips, Instructor.

SFC Gifford P. McGinty, Instructor.

SFC William E. Suttner, Instructor.

The Department of Military Science and Tactics is organized under Army Regulations prescribed for a Military Junior College. This Department is headed by a Professor of Military Science and Tactics and instructors who are officers and enlisted personnel of the active Army. They are assigned by Department of the Army for duty with the ROTC. The program of instruction provides for training at both secondary school and college levels.

### Reserve Officers Training Corps

The New Mexico Military Institute is proud of its Reserve Officers Training Corps. This Corps is organized under the authority of Section 40-47C, National Defense Act of 1916 as amended, and staffed with selected officer and enlisted personnel, from the Regular Army. Since 1909 the Institute has continuously enjoyed the status of a Military School Honor ROTC unit, a designation conferred by the Department of the Army to schools whose achievement merits such distinction. Certain graduates of such schools have the op-



portunity of qualifying for appointment to one of the Service Academies. Three such nominations may be made each year. For details, see page 65.

### Purpose

The primary objective is to train selected cadets so that they may qualify for appointment as commissioned Reserve Officers in the United States Army. This primary objective necessitates emphasis on leadership, integrity, mental and moral discipline—qualities which are applicable to any future pursuits.

### Scope

The ROTC program at NMMI is specifically adapted to utilize the fine training facilities found here. It is a Military School Program as outlined by the Department of the Army in appropriate regulations. This program consists of six years of training courses of a general Military Science nature with designations of MST 1 thru 6. All of the training is progressive. The first four years are designed to provide instruction in basic military subjects and small unit tactics through classroom and direct applicatory exercises. The last two years (college level) are designed to supplement the previous training by adding the necessary theoretical instruction in general military subjects required for the student's eventual commission in the Army. Under provisions provided by Army Regulations, the six-year program may be compressed, and a student can complete the program in either four or five years. All cadets enrolled at New Mexico Military Institute must participate in the ROTC program, either as official or unofficial students. Unofficial students are those who cannot meet certain requirements for enrollment in ROTC. If at any time during his enrollment at the Institute, such disqualifications are overcome, credit for previously completed ROTC work may be given and future official enrollment granted.

### The Military System

Upon admission to the Institute, a cadet becomes subject to its regulations for the duration of his stay. The es-

sence of the military system is the inculcation, through training and example, of the highest conceptions of integrity, duty, respect for properly constituted authority, and consideration for fellow cadets. Habits of regularity in daily academic routines as well as ample opportunity for physical, mental, and moral health of the cadets. Discipline within the Cadet Corps is administered largely by the cadets themselves, through various boards of senior cadets, supervised by appropriate members of the Faculty. The Commandant of Cadets together with the Professor of Military Science and Tactics determines the general disciplinary policies to which the Corps of Cadets is subject.

Upon initial enrollment at the Institute, the young man becomes a new cadet, in which status he must remain for his first year. This is an important period, during which he is being evaluated by his fellow cadets and also by members of the faculty. His subsequent advancement in the Corps of Cadets depends upon his individual performance in the duties he is assigned, and upon his proficiency in academic subjects and in military science.

### **Commissions in the Army Reserve**

A cadet who completes all of the ROTC training at the Institute (MST 1 through 6) can secure a commission as a Reserve Officer by securing a baccalaureate degree from a senior college, and attending a six-week ROTC camp in the summer between his junior and senior year at a senior college.

### **Selective Service Deferments**

Any cadet who is officially enrolled in the College ROTC program may be deferred so long as his Military Science grades and his conduct conform to the standards required by ROTC and Institute regulations.

### **Organization of Classes**

ROTC theoretical instruction is given in small classes, included in the academic schedule. Practical or field exercises with the students occupying all positions of responsibility are

conducted each week. These exercises are specifically designed to teach leadership and techniques. The work is planned and closely supervised by the Military Department. Within each unit, cadets are rotated through the various command and subordinate positions in order to give all command experience. Each successive year's training presents new problems and goals building on the experience acquired in previous instruction and exercises. The theme throughout ROTC training is mastery of the fundamental theoretical principles followed by guided practice and application.

### Distinguished Military Students

(Subject to change by Department of the Army)

A Distinguished Military Student is an individual who is designated as such by the Professor of Military Science and Tactics after careful consideration of his qualifications, as follows:

“1. Stands in the upper 50% of his academic class, or in the upper 10% of his military science class;

“2. Has shown outstanding qualities of leadership, high moral character, and a definite aptitude for military service;

“3. Has creditably demonstrated his outstanding leadership ability through his accomplishments while participating in recognized campus activities;

“4. Is a student in the Advanced Course of the Reserve Officers' Training Corps or in the 5th or 6th year of the Military Schools Training Program.

“5. Has sufficient over-all academic standing which in conjunction with (2) and (3) above will warrant the designation as a Distinguished Military Graduate.”

Distinguished Military Student designations are transferable to Senior Colleges upon a cadet's departure from the Institute. The retention of the designation, however, is contingent upon the individual's satisfying all of the above requirements at the institution to which he transfers.

A Distinguished Military Student may apply for appointment in the Regular Army during his Senior year in college. Applications will be considered by the Department of the

Army in the light of officer personnel requirements and current policies; and those applicants favorably considered will be appointed Second Lieutenants in the Regular Army.

### Appointment to the Service Academies

Each year not more than three students from this Military School Honor ROTC may be nominated for appointment as competitive candidates to the United States Military and United States Naval Academies. Such nominations require the concurrence of the Superintendent and Professor of Military Science and Tactics. Cadets nominated are subject to the entrance examinations, physical requirements, and various other qualifications prescribed by the United States Military Academy.

Requirements for nomination provide that a cadet:

1. Be a graduate of a Military School Honor ROTC unit.
2. Have been officially enrolled in ROTC for at least two years prior to nomination.
3. Have demonstrated proficiency in not less than 15 units in the subjects prescribed for admission in the catalogue of the United States Military Academy.
4. Be graduated in the upper third of his class in academic standing.
5. Have demonstrated outstanding qualities of leadership in military, academic and extra-curricular activities.
6. Be a citizen of the United States.

In addition to the foregoing nominations, cadets are counselled and assisted in securing admission to the service academies from other sources.

### Military Curriculum

#### Military Training, First Four Years

MST 1 & 2 (Compressed)\* Prerequisites: None

Objective: To inculcate habits of orderliness and precision, to instill discipline and respect for constituted authority, and to promote the correct physical and mental development of the individual. Subjects: Orientation and introduction

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\* Since no high school freshman class exists at the Institute, it is necessary to compress the first two years of Military Schools Training.

into ROTC; courtesies, customs and rules of conduct; organization of the Army; hygiene, first aid and field sanitation; weapons; marksmanship; elementary communications; school of the soldier and exercise of command; ceremonies; inspections; physical training; small unit tactics.

Credit: No more than one unit of credit towards the Institute Certificate will be given for MST courses 1 through 4. College students will receive four semester hours credit for MST 1 & 2 compressed. Required for: All new cadets without previous military experience. All high school sophomores.

**MST 3—Prerequisites: MST 1 & 2.**

Objectives: Preparation of the student for participation in advanced military training leading to a commission at the completion of his college course. For the student not entering college, this year's training will provide basic military skills which will permit his early qualification as a non-commissioned officer in the active Army or the Army Reserve.

Subject: Principles of leadership; map reading and compass; weapons and rifle marksmanship; school of the soldier and exercise of command, ceremonies; inspections; physical training; small unit tactics.

Credit: For Third, Fourth, or Fifth Classmen, the statement of credit for MST 1 & 2 is applicable. College students will not require this course. Required for: All students who have successfully completed MST 1 & 2.

**MST 3 & 4 (Compressed) Prerequisites: MST 1 & 2.**

Objective: To complete the Military Schools Basic Course and to prepare the student for the military training which leads directly to a commission.

Subjects: Principles of leadership; military teaching methods; preparation for and conduct of instruction; maps and aerial photographs; weapons; rifle marksmanship; new developments; school of the soldier and exercise of command; ceremonies; inspection; physical training; small unit tactics.

Credit: For Third, Fourth and Fifth Classmen, the statement of credit for MST 1 & 2 is applicable. College students will receive four semester hours credit for MST 3 & 4 Compressed.

Required for any Cadet who has successfully completed MST 1 & 2 Compressed, and is at least a Third Classman.

**MST 4—Prerequisite: MST 3.**

Objective: To complete the high school student's military training, and to qualify him to apply for military training at college level (MST 5 & 6), completion of which will lead to a commission.

Subjects: Military teaching methods; preparation for and conduct of instruction; maps and aerial photographs; rifle marksmanship; new developments; school of the soldier and exercise of command; ceremonies; inspections; physical training; small unit tactics.

Credit: Statement of credit for MST 1 & 2 is applicable to Third, Fourth and Fifth Classmen. First and Second Classmen will not require this course. Required for: All students who have successfully completed MST 3, including Third Classmen who have been at N.M.M.I. for two years.

## Military Schools Training, Fifth and Sixth Years

In order to be eligible for MST 5 & 6, during which time the student is under contract, he must satisfy the following principal requirements:

1. Successfully complete the screening tests required by the Department of the Army.
2. Successfully complete MST 1 through 4.
3. Execute a contract with the Government to pursue and complete MST 5 & 6.
4. Execute a Deferment Agreement.
5. Be physically fit.
6. Be a citizen of the United States.
7. Execute an oath of loyalty.

### MST 5—Prerequisites: MST 1 through 4.

**Objective:** To qualify the student in those military subjects which will enable him to apply for a commission in the Army after he attends the required summer camp and receives a baccalaureate degree at a recognized college or university.

**Subjects:** Crew served weapons and gunnery; basic communications; organization; functions, and missions of the branches of the Army; logistics; school of the soldier and exercise of command; ceremonies; inspections; small unit tactics; new developments.

**Credit:** Six semester hours. **Required by:** All First or Second Classmen who have successfully completed MST 1 through 4.

### MST 6—Prerequisite: MST 5.

**Objective:** Identical with MST 5 with the additional objective of providing the culminating training and experience and producing a potential commissioned officer.

**Subjects:** Operations; military administration and military justice; school of the soldier and exercise of command; ceremonies; inspections; small unit tactics; new developments; service orientation.

**Credit:** Six semester hours.

**Required by:** All students who have successfully completed MST 5.

**Transfer of Credits:** MST courses are transferable to other ROTC units contingent upon acceptance by the receiving school and the PMST of the receiving school. The following credit may be allowed: for completion of MST 1 and 2, credit may be given for MS 1 Senior ROTC. For completion of MST 3 and 4, credit may be given for MS II, Senior ROTC. Completion of MST may be correlated to MS III (Contract). Completion of MST 6 may be correlated to MS IV and completion of Senior ROTC.

Prior service in the active army and/or prior ROTC training will be evaluated, and credit will be given toward placement in the Military Schools ROTC unit.

### Compensation

There are two allowances paid officially enrolled ROTC cadets. These are a Uniform Allowance and a Subsistence Allowance. The Uniform Allowance presently authorized is as follows:

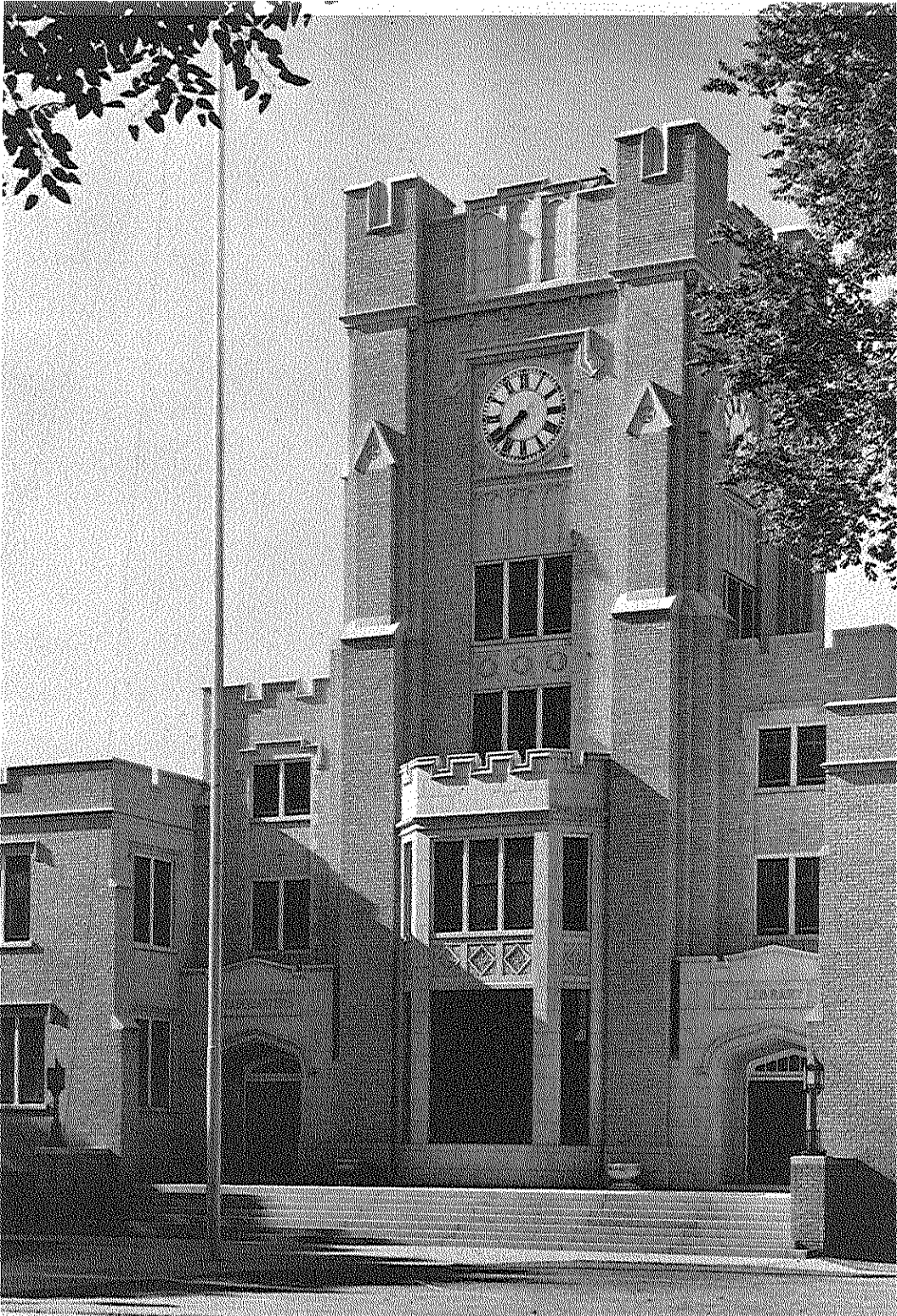
For cadets enrolled in MST 1 & 2	\$ 7.00 per course
For cadets enrolled in MST 3 & 4	\$25.00 per course
For cadets enrolled in MST 5 & 6	\$100.00 for the two years payable upon graduation

For cadets officially enrolled in MST 5 & 6 there is a Subsistence Allowance which amounts to \$.90 per day. Receipt of this allowance is contingent upon remaining officially enrolled and in good standing in the ROTC.

### Military Science Course Requirements

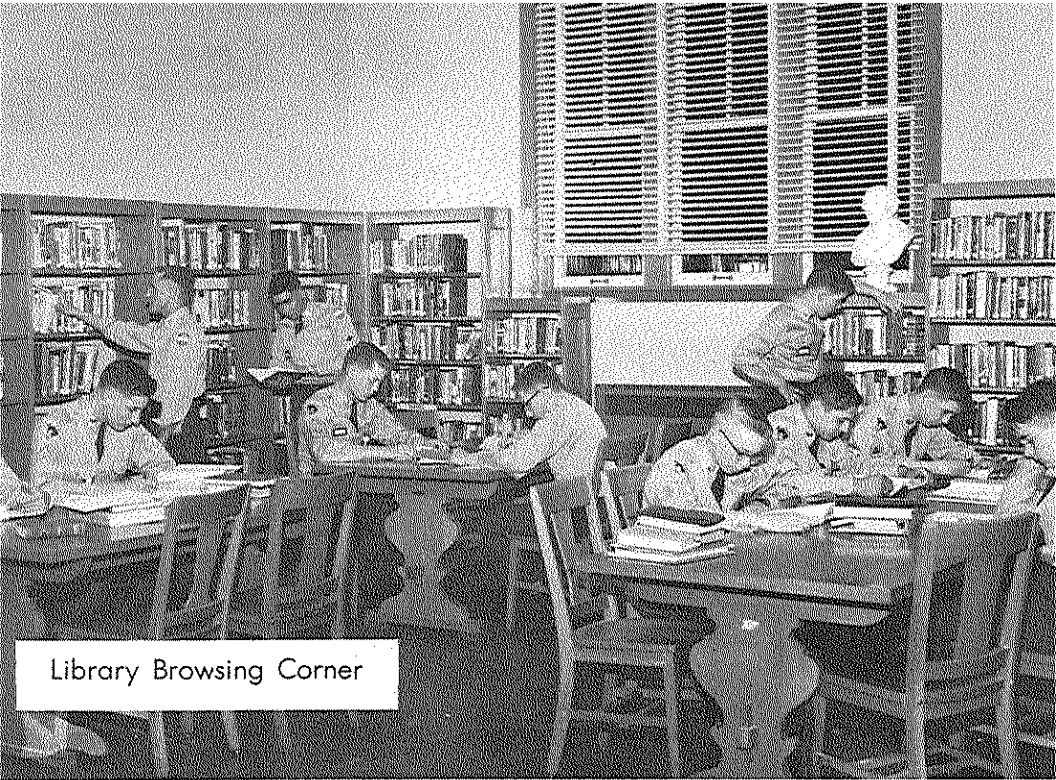
The following outline is provided to demonstrate how the various combinations of Military Science courses relate to student background and needs:

1. The student who enrolls as a new cadet without previous experience, will take MST 1 & 2, regardless of grade level.
2. All Fifth Classmen will take MST 1 & 2. (Compressed).
3. After completion of MST 1 & 2:
  - a. The Fourth Classman junior will take MST 3.
  - b. The Third Classman senior will take MST 3 & 4. (Compressed).
  - c. The Second or First Classman will take MST 3 & 4. (Compressed).
4. Upon completion of MST 3 & 4 the Second or First Classman will take MST 5, if qualified.
5. MST 6 will be taken by all students who have completed MST 5.

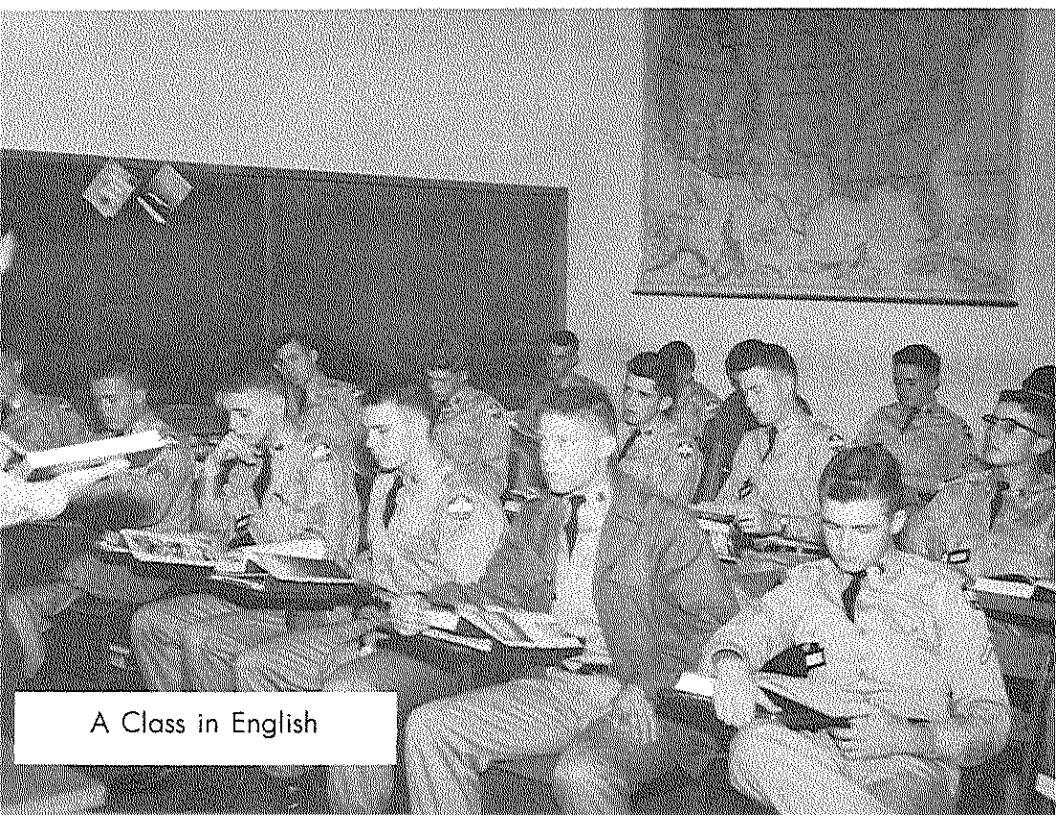


Headquarters and Library





Library Browsing Corner



A Class in English

## INSTITUTE HISTORY

New Mexico Military Institute had its inception in the Goss Military Institute, founded in Roswell in 1891. By an act of the Territorial Legislature, passed in 1893, the institution was re-named New Mexico Military Institute, and became a Territorial school under the superintendency of Colonel J. E. Edgington.

For four years the school operated in downtown Roswell; then Mr. J. J. Hagerman donated a forty-acre plot on the Hill for a permanent site. The Legislature assembly authorized a bond issue to provide the new area with buildings, and a tax levy was passed for its maintenance. Subsequently, by acts passed in 1893 and in 1910, New Mexico Military Institute received grants of public land totalling 125,000 acres, from which to draw revenue for permanent improvements.

Colonel J. G. Meadors served as Superintendent from 1898 until 1901, to be succeeded by Colonel James W. Willson, a graduate of Virginia Military Institute. Colonel Willson gave to the school much of its military tradition and character. He began the construction of a permanent plant with buildings distinctive in style and functional in operation. The first two sections of Hagerman Barracks, completed in 1909, were built in the military Gothic yellow brick which is still characteristic of the campus. These barracks sections, thoroughly remodeled and furnished, are still in daily use.

During the long tenure of Colonel Willson, the Institute won prestige as a "Distinguished Institution," and an R. O. T. C. unit was pioneered. The Junior College opened in 1915, increasing the maturity of the student body and adding to the distinction of the school.

Colonel J. C. Troutman, who succeeded to the Superintendency upon the death of Colonel Willson in 1922, devoted his efforts to increasing enrollment and strengthening the academic offerings of the school.

Colonel D. C. Pearson, successor to Colonel Troutman, brought to the task familiarity with the school's spirit and traditions, gained through more than a decade in her service. He brought, too, a practical man's vision and determina-

tion, a rigid sense of fairness and justice. He was pre-eminently the builder, adding eight buildings to an increasingly attractive post.

Serving under Colonels Willson, Troutman, and Pearson, as Commandant of Cadets, Colonel Harwood P. Saunders, Jr., created a spirit within the Corps of Cadets which will never die. His understanding of young men, his impartiality, his courtliness of manner, and his supreme faith in the destiny of the Institute, combined to infuse within the student body an integrity and devotion to duty to be remembered forever.

Colonel Pearson took great pride in the success of the alumni. Their war records were particularly impressive. Over seven hundred served in World War I; a score received citations, and seventeen gave their lives. Nearly three thousand, over three-fifths of them commissioned officers, served in World War II, winning more than a thousand awards and citations. In this Second World War, nearly two hundred died for their country.

The Institute was begun as an Infantry School, but in 1920, at the request of the War Department, a cavalry regiment was organized. Horses were furnished by the Government, and handsome stables were built and maintained for their use. In 1946, just prior to Colonel Pearson's retirement, an armored R.O.T.C. unit was authorized, to replace the horse cavalry.

Brigadier General Hugh M. Milton II, became the sixth head of the Institute in 1947. He had served previously as President of New Mexico A. & M. College, and as Chief of Staff, XIV Corps, in the Pacific area. General Milton was interested in expanding academic opportunities, and his administration was marked by bustling activity.

Upon the return of General Milton to Army service in 1951, Colonel Ewing L. Lusk, over thirty years in Institute service, consented to take the Superintendency. His thorough understanding of Institute affairs, his personal warmth, and his high-minded character smoothed the way for his successor, Colonel Charles F. Ward. Colonel Lusk retired in 1952 to supervise his ranching interests.

Colonel Ward, long in Institute service as teacher of history and high school principal, served three years as Superintendent. Friendly, earnest, and hard-working, he retired in 1955.

The present Superintendent, Lieutenant General Hobart R. Gay, is keenly interested in the academic program of the school as well as its military aspect. He has closely supervised the coordination of Institute affairs, and has wrought an integrated academic program for the three years of preparatory and two years of junior college.

General Gay came to the Institute in 1955, after retiring from the Army as Commanding General of the Fifth Army. His active army career began with his graduation from the First Officers' Training School at Fort Sheridan, Illinois. He served with the Seventh Cavalry in the Southwest, and has held many responsible positions in almost every quarter of the world. During World War II he was Chief of Staff to General George Patton.

The development of sound health, mental alertness, moral character, self-discipline, individual dignity, and a sense of social responsibility are objectives which General Gay stresses in the educational program of the Institute.



Academic Staff

- Colonel J. R. Kelly, A.B., North Dakota, M.A., Chicago, *Dean*, 1924.
- Colonel John C. Kost, Jr, A.B., Knox, M.A., Chicago, *Assistant Dean*, 1928.
- Lieutenant Colonel Alfred N. Carter, A.B., B.J., M.A., Texas, *Chairman, Division of English and Languages*, 1929.
- Lieutenant Colonel Vester Montgomery, B.S., M.A., Oklahoma, *Chairman, Division of Social Sciences*, 1929.
- Lieutenant Colonel William C. Roudebush, A.B., Miami (Ohio), Ph.D., Cincinnati, *Chairman, Division of Natural Science and Mathematics*, 1939.
- Lieutenant Colonel Patrick H. Gratton, A.B., Western State, M.A., Colorado, *Chairman, Department of English*, 1927.
- Lieutenant Colonel G. Merton Sayre, B.A., Milton, M.A., Wisconsin, *Chairman, Department of Languages*, 1928.
- Major J. Bryan Ellis, B.S., M.S., Michigan, *Chairman, Department of Physical Sciences*, 1929.
- Major Charles S. Whitney, A.B., M.S., Oklahoma, *Chairman, Department of Mathematics*, 1929.
- Major James H. Sikes, A.B., Abilene Christian, M.S., Texas A. & M., *Chairman, Department of Biological Sciences*, 1942.
- Captain Daniel S. Day, A.B., Oberlin, M.A., Ph.D., California (UCLA), *Chairman, Department of Social Studies*, 1956.
- Captain Howard G. Murphy, B.S., M.S., Syracuse, *Chairman, Department of Business Administration*, 1951.
- Major Nicholas C. Padgen, Ph.B., M.A., Creighton, *Head Coach*, 1956.
- Major Harry D. Blake, B.S., New Mexico A. & M., *Associate Professor of Biology*, 1927.
- Captain Woodrow W. Boone, B.S., Jacksonville State, M.A., Alabama, *Instructor in Remedial Reading*, 1957.

Major James W. Branch, B.A., Arkansas, M.A., North Texas State, *Assistant Professor of English*, 1944.

Captain James C. Chorn, B.S., Texas Tech, *Instructor of Biology and Chemistry*, 1957.

Captain Norman Cleveland, A.B., Cumberland, M.A., Peabody, *Instructor of English*, 1956.

Captain Ken A. Davis, USA, B.A., Washington, *Assistant Professor of Military Science and Tactics*, 1957.

Major Wayne Foreman, A.B., William Jewell, M.S., Chicago, *Associate Professor of Chemistry*, 1929.

Major Eugene J. Fox, B.S., Central State, M.A., Oklahoma, Ph.D., University of New Mexico, *Assistant Professor of Spanish*, 1948.

Captain James H. Haniger, B.A., M.A., Gonzaga, *Instructor of Latin*, 1957.

Captain William F. Harris, B.A., M.A., Oklahoma A. & M., *Assistant Professor of Biology*, 1951.

Captain Ralph S. Haywood, A.B., Texas Western, *Instructor in English*, 1954.

Captain Robert A. MacArthur, Ph.B., Wisconsin, M.A., Western State, *Instructor of Mathematics*, 1957.

Lieutenant Colonel Melvin C. Helfers, USA (Ret), A.B., Citadel, M.A., Duke, *Instructor in German*, 1956.

Captain Alfred L. Long, B.A., Dakota Wesleyan, M.A., Colorado State, *Instructor in Business Administration*.

Captain Colburn B. Lovett, A.B., M.A., Maryland, *Instructor in Economics*, 1954.

Major Robert T. Martin, USA, B.S., U.S. Military Academy, *Assistant Professor of Military Science and Tactics*, 1956.

~~Captain David D. Mayfield, B.A., Oklahoma City, Coach, 1956.~~

Captain Russell D. McKinney, B.A., M.A., New Mexico A. & M., *Instructor of Spanish*, 1956.

X  
Captain Robert F. McDavid, B.S., Notre Dame, M.Ed., Mississippi, *Track Coach*, 1956.

- Captain John R. Micklich, A.B., M.S., Eastern New Mexico, *Instructor of Mathematics*, 1952.
- Major Fred A. Miller, B.A., Carroll, M.A., Wisconsin, *Assistant Professor of Mathematics*, 1945.
- Major Paul Mount-Campbell, A.B., Colorado, M.A., Denver, *Associate Professor of Physics*, 1942.
- Captain Donald L. Neelen, B.A., Dakota Wesleyan, *Instructor of Business Administration*, 1953.
- Major Grant N. Nelson, B.S., North Dakota, M.S., Southern California, *Associate Professor of Chemistry*, 1943.
- Colonel G. Seth Orell, B.S., M.S., Denver, *Assistant Professor of Chemistry*, 1931.
- Captain William C. Payne, A. B., Trinity (Texas), M.A., West Texas State, *Assistant Professor of Mathematics*, 1946.
- Captain Edward M. Praisner, B.S., Stroudsburg State, M.A., New Mexico, *Assistant Professor of Social Science*, 1950.
- Captain Ralph E. Schwint, B.S., Purdue, M.A., Indiana, *Instructor of History*, 1957.
- Captain Albert E. Scott, B.A., Morningside, *Instructor of History and English*, 1953.
- Major Dwight H. H. Starr, B.A., North Texas State, M.A., Columbia, *Associate Professor of English*, 1928.
- Captain Alvin R. Sunseri, B.A., South Eastern Louisiana, M.A., Louisiana State, *Instructor of History*, 1956.
- Captain Guy K. Troy, USA, B.S., U.S. Military Academy, *Assistant Professor of Military Science and Tactics*, 1956.
- Captain Charles Wheeler, A.B., U.C.L.A., *Instructor of English*, 1957.
- Captain John S. Williamson, A.B., M.A., Eastern New Mexico, *Instructor of English*.



### Administrative Staff Assistants

- Captain Robert G. Armstrong, *Mess Officer*, 1957.
- Mrs. Helen S. Clark, *Admissions Secretary*, 1953.
- Mrs. Helen E. Cookson, *Secretary to the Superintendent*, 1930.
- Major Rodman M. Cookson, A.B., Hardin-Simmons, M.A., Eastern New Mexico, *Chaplain*, 1951.
- Captain Charles W. Fristoe, New Mexico Military Institute, *Tactical Officer*, 1956.
- Captain Pat L. Fuqua, *Chief Accountant and Assistant to the Adjutant*, 1956.
- Captain Roger R. Gamble, B.S., Bemidji State, *Tactical Officer*, 1957.
- Mr. George F. Gerling, B.A., M.A., Wisconsin, *Public Information Officer*, 1955
- Captain Cecil V. Hill, *Supervisor of Buildings and Grounds*, 1946.
- Major Frederick E. Hunt, New Mexico Military Institute, *Secretary N.M.M.I. Alumni Association*, 1934.
- Mrs. Myrtle H. Little, R.N., Trinity Hospital School, (Minot, N. Dakota), *Head Nurse*, 1951.
- Lieutenant John T. Murrell, *Junior Accountant*, 1957.
- Captain Fred S. Norcross, Jr., B.S., Carroll, *Tactical Officer*, 1954.
- Lieutenant Colonel Joseph A. Posz, B.S., New Mexico Military Institute, *Manager of Cadet Services*, 1929.
- Captain Vernon W. Robertson, A.B., Mus. B., Southwestern, Mus. M., Syracuse, *Bandmaster*, 1947.
- Lieutenant Alton L. Sample, *Manager Laundry and Dry Cleaning*, 1954 .
- Captain Thomas O. Schlueder, AGC (Ret), *Administrative Assistant, Office of Admissions and Records*, 1956.

Captain Curtis E. Jenkins, B.A., DePauw, M.A. Peabody,  
*Assistant Librarian, 1957.*

X Captain Cecil R. Morris, B.S., Oklahoma, *Tactical Officer  
and Coach, 1957.*

~~Lieutenant Albert S. Romero, New Mexico Military Institute,  
*Tactical Officer and Coach, 1957.*~~

Retired Faculty and Staff with Emeritus Standing

Miss Modene D. Bates, 1921-24, 1926-1951,  
*Registrar.*

Captain Russell G. Bird, 1926-1928, 1929-1951,  
*Assistant to the Adjutant.*

Miss Margaret Decker, 1916-1946,  
*Instructor in Spanish*

Lieutenant Colonel George L. Erwin, 1912-1946,  
*Adjutant..*

Lieutenant Colonel L. T. Godfrey, 1928-1956,  
*Assistant Coach, Coach, Director of Athletics.*

Major Albert Hudson, 1924-1954,  
*Superintendent of Grounds, Commissary Officer.*

Colonel Ewing L. Lusk, 1910-13, '16-17, '18-19, 1921-1952,  
*Mathematics Instructor, Principal, Superintendent.*

Lieutenant Colonel John E. Smith, 1930-1950,  
*Instructor in Physics.*

Miss Vera H. Unruh, 1928-1949,  
*Resident Nurse.*

Colonel Charles F. Ward, 1926-1956,  
*History Instructor, Principal, Superintendent.*

Mrs. Lydia P. Wilcoxon, 1937-1954,  
*Resident Nurse.*

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**New Mexico Military Institute**  
**Roswell, New Mexico**