

# Catalog of the

New
Mexico
Military
Institute



Founded in 1891

A Catalog and General Announcement for the academic years 1960-1961 and 1961-1962 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

#### ACCREDITATION AND 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 University of New Mexico.

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

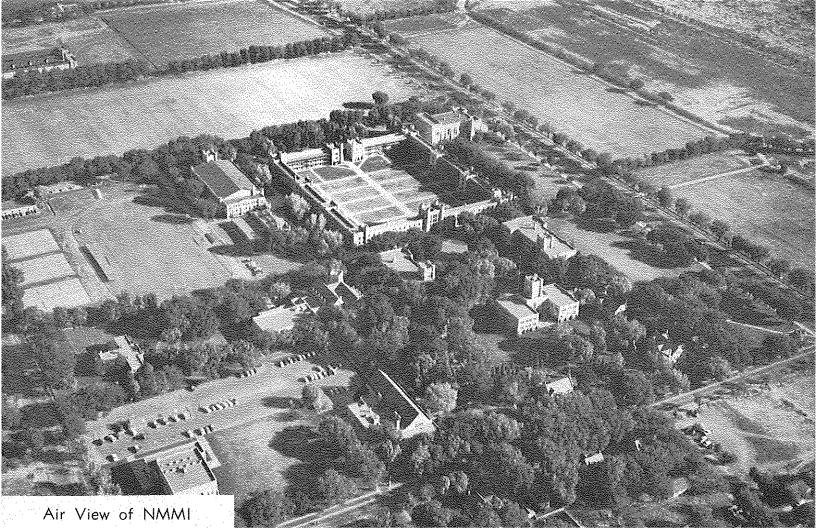
Parents or other patrons of Cadets who visit the Institute during the school year are requested to notify the school of their intended arrival. This notification will permit the Institute to arrange counselor-visits with fathers, mothers or guardians without delay and without the possibility of missing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

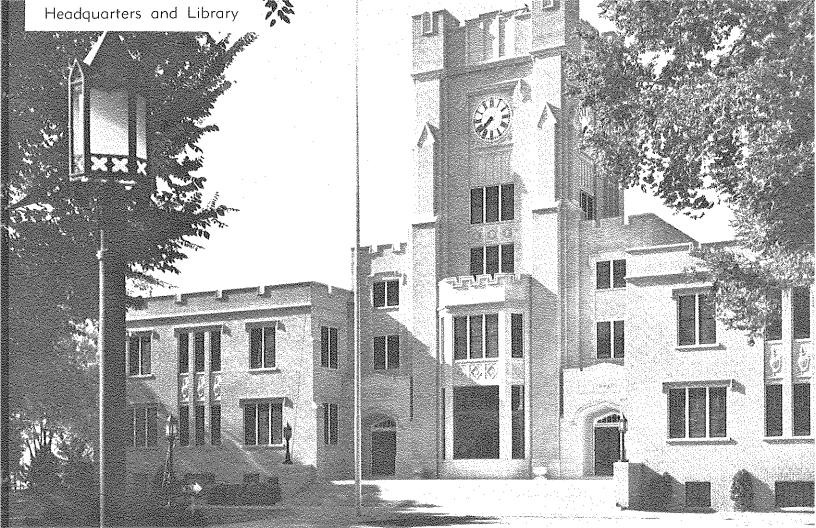
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# INSTITUTE CALENDAR

# Academic Year, 1960-1961

August 31, 1960	Registration, New Cadets
September 5, 1960	Registration, Returning Cadets
November 24, 1960	Thanksgiving
December 16, 1960	Christmas Furlough begins
·	at 11:00 A.M.
January 3, 1961	Christmas Furlough ends
•	at 6:00 P.M.
January 21, 1961	First Half Year Ends
January 23, 1961	Second Half Year Ends
May 26 to May 28	Commencement

# Academic Year, 1961-1962

September 6, 1961	Registration, New Cadets
September 11, 1961	Registration, Returning Cadets
November 30, 1961	Thanksgiving
December 20, 1961	Christmas Furlough begins
·	at 11:00 A.M.
January 7, 1962	Christmas Furlough ends
• •	at 6:00 P.M.
January 27, 1962	First Half Year ends
January 29, 1962	Second Half Year begins
June 1 to June 3	Commencement

# Academic Year, 1962-1963

September 5, 1962	Registration, New Cadets
September 10, 1962	Registration, Returning Cadets
November 29, 1962	Thanksgiving
December 20, 1962	Christmas Furlough begins
ŕ	at 11:00 A.M.
January 6, 1963	Christmas Furlough ends
<b>2</b> /	at 6:00 P.M.
January 26, 1963	First Half Year ends
January 28, 1963	Second Half Year begins
May 31 to June 2	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 increased by compulsory athletics.

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 com-

petition within the life of the Corps of Cadets.

6. Graduates of the Institute who have been in attendance for four years are almost without exception qualified for commissions in the Army Reserve Forces. Such graduates are free from the responsibilities of further military 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 Catalog 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.

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 main-

tained 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.

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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 an academic program of general and preprofessional 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 and transcripts of records: The Director of Admissions and Records.

Academic policy and curriculum: The Dean.

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.

ROTC matters: The Professor of Military Science and Tactics.

#### 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.

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.

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Highway 380, a branch of U. S. 80, passes through Roswell east and west, while from north and south, there are 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 campus 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 campus 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 Institute surgeon, who is on call at all times.

Non-sectarian chapel services, cumpulsory for most Cadets, are held in Pearson Auditorium each Sunday. This building, which has a seating capacity of 1,500 persons, is the place of assembly for 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. 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

Three academic buildings, Lea Hall, Willson Hall, and the Military Science Building, provide classrooms, laboratories, and small auditoriums for 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 surroundings, help Cadet needs. All classrooms are attractively decorated, and the laboratories are up-to-date and well equipped.

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 an institution in the whole ROTC program. The Army furnishes the necessary weapons and military equipment for carrying on the ROTC training.

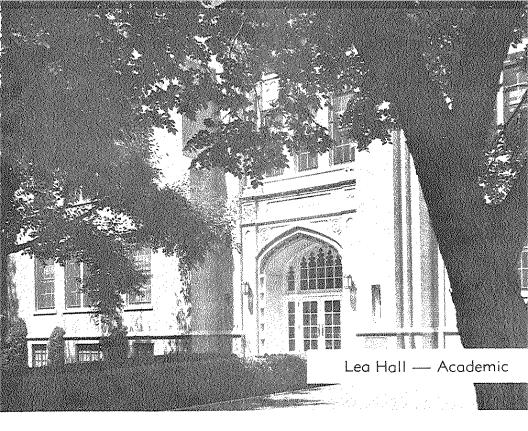
## The Library

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

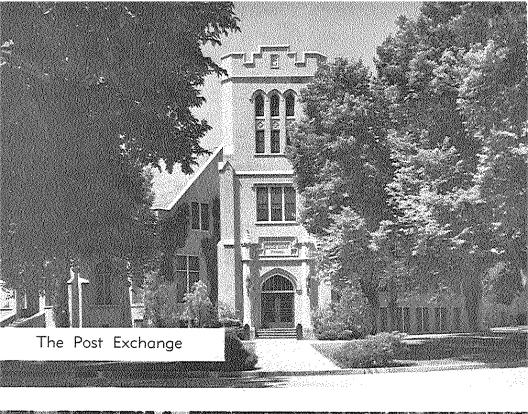
On the main floor of the Library is the circulation desk, the periodical room, and the reference room with its up-to-date reference tools, bound periodicals, and study tables. The periodical room contains current issues of about 250 periodicals, including professional and technical journals, magazines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

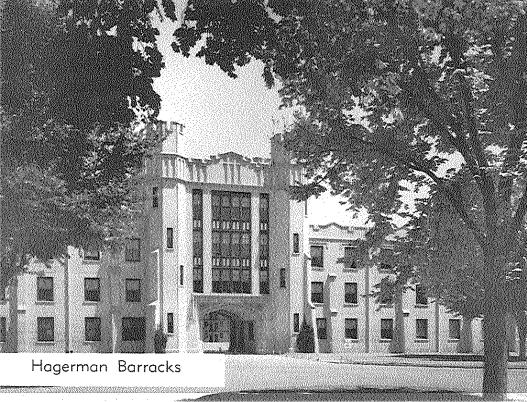
The book stacks, housed on the lower level, are open to all Cadets; only rare or "treasure" volumes are not immediately accessible to Cadets at any time. Study tables, a music room with a fine collection of recordings of classical music, speech, and drama, and a magazine and newspaper file room are also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

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. A special music room with a fine collection of records and instruments is available for leisure-time use.









#### 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 campus.

Pearson Auditorium, mentioned in the preceding section, is equipped with the latest motion-picture screen and projectors, a fine stage, and an excellent three-manual pipe organ. Motion 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. Golf equipment must be kept at the golf house.

Cahoon 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.

Corrective medical or surgical treatment, including dental work or the fitting of glasses, should be completed before entrance into the Institute. A new Cadet must submit certificates showing the following immunizations received within three years previous to admission: (a) typhoid and paratyphoid fevers; (b) diphtheria and tetanus; (c) vaccination for smallpox. Also a series of three injections of poliomyelitis vaccine is required. 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, hospital and academic instruction for Cadets who are residents of New Mexico is \$802 a year. For students from out-of-state, the sum is \$1,072. 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. Members of the Armed Forces stationed in New Mexico may qualify for in-state status upon meeting of special requirements.

Personal expense for the Cadet will ordinarily come within a \$450 to \$500 range for the academic year. This sum covers the cost of clothing, 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, Library \$10, Linen service \$34, Lyceum and entertainment \$13, Group accident insurance \$13.00. These fees, amounting to \$85, may be supplemented by academic fees for particular courses like

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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 uniform	\$70.00
Two pairs of slacks at \$13.50	27.00
Service cap	8.75
Service cap	18.95
Glovespair	3.30
Regulation Uniform	
Regulation cotton khaki	
shirts, (6) \$4.25 ea. (average)	25.50
Cotton khaki slacks, (4) at \$4.25 ea.	17.00
Two pairs paratroop boots	33.00
One web belt	.70
Garrison caps (3)each \$2.	6.00
Other Equipment and Supplies	
Regulation trench coat	\$31.00
Two black ties at \$1. each	2.00
Athletic shoes	7.00
Two laundry bags at \$1.50 each	3.00
Books and school supplies,	0.00
each semester \$30. to	40.00
Summary of Expenses In-State O	ut-State
Tuition, room and board \$802.	\$1,072.
Deposit with application will be applied on th	e above.
Fixed Fees 38.	38.
Linen Service 34.	34.
Group Accident Insurance 13.	13.
Deposit for Personal Expense 475. Total Tuition, Fees and	475.
Personal Expense \$1,362.	\$1,632.

Each enrollment is considered on its own merit for the full academic year. Withdrawal or dismissal for the benefit of the individual or of New Mexico Military Institute at any time prior to the end of the regular term 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 haircuts, 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: 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 inches 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.

#### CAMPUS REGULATIONS

### The Military System

Upon admission to the Institute, a cadet becomes subject to its regulations for the duration of his stay. The essence 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 one year if a Third, Fourth or Fifth Classman and one-half year if a Second Classman. 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.

### 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 characteristics of the Corps of Cadets. This code includes special duties for 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 CADET HONOR CODE

The Cadet Honor Code was started in 1921 by a unanimous vote of the Corps. Its purpose is to eliminate lying, cheating, and stealing as methods of advancement or gain by cadets. On the positive side it insists upon honesty and truthfulness in the competitive activities of every day life, be they academic, disciplinary, athletic, or military. Its goal is character development through right action.

The provisions of the Cadet Honor Code are simple:

- 1. A cadet will not lie, quibble, or make evasive statements to conceal or obscure the real truth.
- 2. A cadet will not give or receive unauthorized aid during tests. Nor will he look at another's paper and thus invite suspicion of cheating.
- 3. A cadet will not submit as his own the writing or work of others without giving credit therefor.

### 4. A cadet will not steal.

The effectiveness of the Cadet Honor Code depends on the cadets. If they want it and live up to it, it will have great value. If they instruct new cadets carefully and enthusiastically as to its worth; if they bring violations of it to the attention of the Honor Board, they will help create an environment that will mold truthful and honest men. It is their Code and its value will depend on their desire and their action. The Cadet Honor Code is administered by an Honor Board made up of carefully selected First Classmen.

#### The Blue Book

Infractions of regulations 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 Board for thorough investigation and recommendations.

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, confinement to post, confinement to quarters, reduction in rank, and suspension or dismissal from the Institute, are among the penalties listed.

A Gray Book, New Cadet Customs and Traditions, is published for the benefit of incoming students.

### Responsibility for Property

Each Cadet is responsible, disciplinarily and financially, for State or Federal property issued or assigned to him, including his room with its furnishings and equipment. In case of loss of such property or damage thereto, the Cadet is individually accountable. Where individual responsibility cannot be placed for damage to, or loss of, school, State or Federal property, an assessment will be levied against the Corps of Cadets, or a smaller group thereof, 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. Cheating
- b. Stealing
- c. Physical hazing
- d. Plagiarism

- e. Forgery (with intent to obtain goods or money)
- f. Lying (false official statement)
- g. Possession, use, or transportation of alcoholic beverages or narcotics on or off the Campus.
  - Any act of a 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 ever 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 Dean's List. 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. All furloughs, regular, emergency, medical, and dental, require parental approval.

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 or other achievement. Members of the Dean's List and the Commandant's List are eligible for this type of furlough. Furloughs are also granted to First Classmen who are in good standing and to letter winners in major sports who are academically and disciplinarily proficient.

Emergency furloughs may be granted only at the discretion of the Superintendent, upon the recommendations 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, brothers, sisters, grandparents and legal guardians. Parents are asked not to request "emergency" furloughs for any other reasons.

A medical or dental furlough will be approved when, and only when, the Institute Surgeon determines that appropriate treatment is not available in Roswell. If such furlough is in order, the parent or guardian must approve the necessary expenditure. 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 conditions of departure of Cadets from the Institute for any other reasons, such as are required for team activities, field trips, etc., is specified in the Blue Book.

#### **Automobiles Not Permitted**

Cadets are not permitted to own or operate motorpropelled 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 a parent or guardian accompany him in the vehicle. Also First Class or cadet officer who rates such privilege at year's end.

### 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 weapon 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 their first few days at the Institute.

### Transcripts of Credit

A First Classman is entitled to three transcrips of his work without charge, a Third Classman, two, and other classmen one. The charge for each transcript above the allowance is \$5.00.

#### CADET ACTIVITIES

#### Social

Social activities at the Institute begin with the opening of the school. 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.

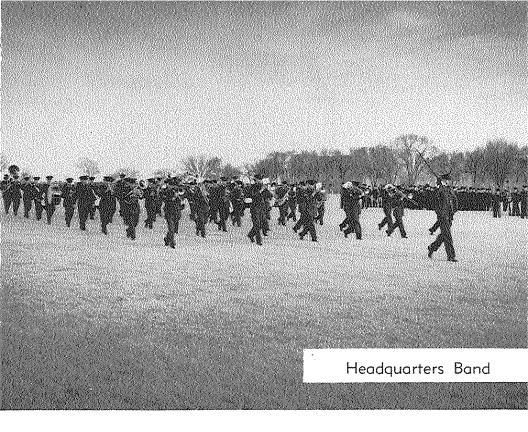
Motion pictures are shown twice weekly in Pearson Auditorium. A lyceum series, consisting of several widely-different attractions, and the Community Concerts' Association programs are also presented in the Auditorium.

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

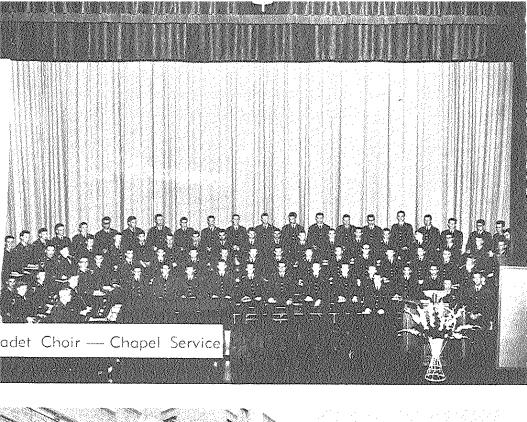
Cadets have their own Regimental Band of approximately seventy musicians. There is also a Cadet Orchestra, and a Cadet Choir.

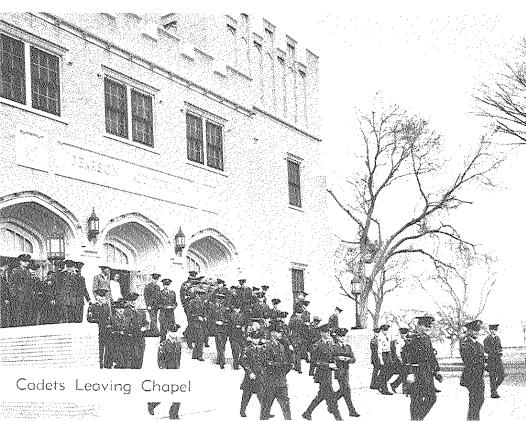
Cadets interested in public speaking may enter the Burton Contest (for Third and Fourth Classmen) or the Ruppert Contest (for First and Second Classmen). Both these contests are held in the spring semester. Cadets also sponsor an annual debating tournament.

Dramatic performances, from variety shows to full-length plays, are given on accasion 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 intramural events, which include touch football, basketball, tennis, track and field events, softball, swimming, wresting, tumbling, volley ball, bowling and golf.

The Institute engages in intercollegiate and inter school sports in football, basketball, baseball, track, tennis, golf, swimming, and rifle and pistol competition. Letters are presented annually to qualified competitors.

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 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 and Colt levels.

Every Cadet not a member of a competitive team is required to take physical education two hours weekly, on schedule. No academic credit is allowed for physical education.

### **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 an employment board. Financial need, academic and disciplinary proficiency, and individual competence are considered in filling available 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, Library, 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 Dean's List.

A Cadet qualifying for the Dean's List for a half year is privilized to wear the Dean's List Merit Insignia. A Cadet must qualify for Dean's List membership each half year to be eligible to wear the award during the following half year.

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, each valued not more than \$300, are awarded on the basis of excellence in academic work, military proficiency, discipline and leadership in school activities. They are available to one Cadet in the Second, Third, Fourth, and Fifth Classes.

New Mexico Military Institute Foundation, Inc. scholarships strictly for academic excellence were established in 1958 by the Board. Details may be obtained from the Scholarships Committee of the Faculty Senate.

The Alumni Scholarship, value \$200, is awarded on the basis of scholarship and general excellence in school activities. Is awarded to a Cadet who is the son of an alumnus.

The Will C. Lawrence Scholarship, value \$100, is awarded on the basis of scholarship and general excellence in school activities. It is open to a member of the Third Class who wishes to continue his education at the Institute.

The N. S. Meyer-Raeburn Foundation Military Science Scholarship, value \$100. Awarded to an outstanding cadet of the Third Class who is completing MST IV and who had agreed to accept an ROTC contract as a Second Classman.

The Virgil Lusk Memorial Scholarship, value \$300. Awarded on the basis of sterling character, good sportsmanship and the faculty of doing things well without attracting attention. Open to a member of the Third Class who wishes to continue his education at the Institute.

The Walter H. Boyd Memorial Scholarship, value \$200, is awarded on the basis of soldierly proficiency,

character suitable to that of an officer, and scholarly aptitude. Open to any cadet attending the Institute for the purpose of gaining a commission in the Army of the United States or Officer's Reserve Corps.

The Truman O. Boyd Memorial Scholarship, value \$200. Awarded on the basis of soldierly proficiency, character suitable to that of an officer and scholastic aptitude for research in the field of Chemistry. Open to any cadet attending the Institute for the purpose of gaining a commission in the Army of the United States or the Officer's Reserve Corps.

The Willie Morrison Memorial Scholarship, value \$200. Awarded on the basis of general excellence in school activities and scholastic aptitude in the field of mathematics. Open to a member of the Third Class who wishes to continue his education at the Institute.

The Stanley W. Crosby, Jr. Memorial Scholarship, value \$500, is awarded to a member of the Corps of Cadets most helpful to others and who excels in leadership and good citizenship.

The Lester A. Sprinkle, Jr., Memorial Scholarship, value \$600. Awarded to a cadet who desires to prepare himself for entrance in the U. S. Military Academy at West Point. Character, academic excellence, desire and particular aptitude for a military career also are determining factors in making the award.

The Arthur L. Allen, Jr., Memorial Scholarship, value \$200. Awarded on the basis of improvement in Military Science and Tactics and outstanding character qualifications. Open to any cadet in the Second Class.

Roswell Sertoma Club Scholarship. The Roswell, New Mexico, Sertoma Club annually gives three scholarships of \$300, \$200, \$100 each. The recipients must be proficient in scholarship and athletically interested in boxing. These scholarships are approved by the Roswell Sertoma Board of Directors.

#### Awards

The Hugh L. McInnis Award. The award is a beautiful graduation ring with garnet setting, presented by V. E. McInnis, father, and Neil P. McInnis, '42, brother, as a memorial to Hugh L. McInnis, '44, who was killed in action in the European theatre on April 16, 1945. The award is made to an outstanding graduate (First Class).

The Hugh Fink Award. The award is a brief case, presented by Fred Evans, Jr., Class of 1935, to the Cadet Colonel as a memorial to Captain Hugh Harris Fink, '35, 26th Cavalry, Colonel of the Corps of Cadets, 1935, who gave his life in the service of his country.

The J. Ross Thomas Medals. These prizes, a gold, a silver, and a bronze medal, are awarded to the three individuals in the Cadet Corps, who have shown those qualities of manliness and ability which it is the object of the Institute to develop. These medals are presented in the memory of Maj. J. Ross Thomas, a beloved instructor.

The Joe Govan Medal. This medal is awarded on the basis of ability and all-round leadership. Established by the Class of 1951 as a memorial to First Lieutenant Joseph Gerald Govan, '51, who was fatally wounded on Sniper Ridge in Korea, October 23, 1952.

The New Mexico Society, Sons of the American Revolution, Award. The Society's medal is presented to the outstanding ROTC cadet in the First Class for leadership, soldierly bearings, and excellence in military curriculum.

The James K. Anderson Award. This award is presented for conscientious, diligent and consistent effort in all aspects of cadet life. It was established by Mrs. Mildred K. Anderson of Roswell in honor of her son, James Kerr Anderson, who was a cadet at NMMI from 1939 to 1943.

The Saunders Memorial Medals for Neatest Cadets. Beginning in 1928, Colonel H. P. Saunders, Jr., '12, now deceased, had awarded four medals to the neatest cadets, selected at a weekly formal inspection. Each company

commander selects representatives to compete in this formal weekly competition. The first medal is of gold; the second of silver, and the third and fourth of bronze. Since 1948, the medals have been presented by the Commandant of Cadets in memory of Col. H. P. Saunders, Jr.

The Ruppert Award. In order to increase interest in public speaking, Max K. Ruppert, '18, of Chicago, has awarded an annual prize to the member of the College Division who shows the most proficiency in the composition and delivery of an original address. Beginning with 1946, a second prize was added. The winners are selected through a series of speeches made before the class in public speaking and the entire cadet regiment.

The John Flack Burton, Jr., Memorial Award for speech in the High School Division is presented by Dr. John Flack Burton, Sr., and James L. Burton, ex '54, in honor of their son and brother, John Flack Burton, Jr., '48 who was killed in action in Korea, October 21, 1952. An award of U. S. Savings Bonds for first and second prizes is made.

The MacMurphy Award. This award was established by Dempster MacMurphy, '15, who bequeathed a fund for its continuance. The prize is a handsome gold medal for the highest individual standard of good sportsmanship maintained in the regiment of cadets.

The American Ordnance Association Medals. A medal is awarded to one cadet selected from each of the following classes, first, second and third, on the basis of: (1) Academic proficiency; (2) Leadership ability; (3) Interest in scientific development; (4) Proficiency in military science.

The Bausch and Lomb Honorary Science Award. This award is presented to the cadet in the Third Class who has maintained the highest standing in science subjects throughout the high school course.

### 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 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 number 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

A distinctive feature of the academic structure of the Institute is its vertical organization. Five years of academic offerings are arranged in logical sequence with proper gradation of courses, with a minimum of overlapping and repetition, and with the so-called "break" between the Third and Second Class years (high school and college) hardly perceptible.

Academic offerings are grouped into three divisions and seven departments that run throughout the school. Division and department heads acting under the Dean exercise close supervision over the course content and instructional procedures. The divisions are: Natural Science and Mathematics, including the three departments of the physical sciences, biology, and mathematics; English and Languages, including the two departments of English and foreign languages; and Social Science, including the two departments of history, government, economics, psychology and that of business administration.

The department of military schools training stands outside the three divisions and is staffed by personnel assigned by the Department of the Army. The vertical organization emphasizes the unity of the general education offerings, bridges the gap between high school and college, and promotes a proper gradation and continuity in school work.

The academic work of the Institute extends through five years—from the Fifth, or lowest class (high school sophomore) through the First, or highest class (college sophomore). A cadet who completes the Third Class qualifies for the Certificate of Completion; he who completes the First Class qualifies for the Diploma of Graduation.

The academic curricula help achieve the general objectives of the school by offering programs of general and pre-professional education. Throughout the Institute's five-year program, general education—the kind of education suitable for everyone regardless of occupation or profession—receives chief emphasis. Along with this, and supplementary to it, a groundwork of knowledge, attitudes, and skills valuable for later professional specialization in law, medicine, engineering, dentistry, armed forces leadership, and other professions is laid. Particularly stressed, too, are the cultivation of proper study habits and the elimination of basic difficulties in reading, writing, and mathematics. Diagnostic tests are given, and the results are used as a basis for special remedial opportunity and realistic schedule planning.

# Requirements for the Diploma of Graduation:

- 1. A cadet must earn 64 semester hours of credit with a grade point average of 1.5 or over.
- 2. He must spend a minimum of one and one-half years in residence on the college level as a yearling or old cadet.
- 3. He must earn credit in certain required courses: English 111-112; History 211-212, or three semester hours credit in American History and three in United States Government; and credit in Military Schools Training.

4. He must complete his final work for the Diploma at the Institute.

Requirements for the Certificate of Completion of the Third Class:

- 1. A cadet must earn 16 units of credit during his four high school years. The 16 units must conform to the following requirements:
  - English 1, 2, 3, 4—4 units
    Public Speaking will not satisfy any part of the
    English requirement.
  - Mathematics: Algebra 1 and Plane Geometry, 2 units, required; Algebra 2, Trigonometry, Solid Geometry, and College Preparatory Mathematics are available.
  - Science: Two units, required from Biology, Physics, Chemistry.
  - Foreign Language: Two units of one language required. French, German, Latin, and Spanish are available.
  - Social Science: Two units required, one of which must be History 4, United States History. The remaining unit must be selected from History 1, 2, 3 and United States Government.
  - Military Schools Training: 1 unit is required, except for new cadet Third Classmen for whom the requirement is ½ unit. Cadets study MST every year, but a maximum of 1 unit of credit may be earned in it.

Additional Requirements: Two additional units must be earned from the courses previously listed. Finally, 1 unit of elective credit is permitted (1½ units for new cadet Third Classmen). The elective allowance is often used up as entrance credit. Vocational courses, shopwork, band, and physical education do not count toward the Third Class Certificate either as required or elective courses.

- 2. A cadet must earn a minimum of 4 units of credit at the Institute and must spend his Third Class year in residence. The final work for the Certificate must be completed in residence.
- 3. Summer work at an accredited school is recognized but not over 1½ units may be earned in a single summer session for transfer to NMMI. Private tutoring is not recognized as a source of credit.

The length of time it will take an entering student to satisfy the requirements for completion of the Third Class will obviously depend on the number of acceptable units he submits on entrance. An entering Fifth Classman will have three years to accumulate his required units, whereas an entering Third Classman may find that completion will take longer than a year's time. This fact must be borne in mind by all entrants who expect to earn a Certificate of Completion of the Third Class. However, a cadet who lacks but one unit of completion by the last half of his Third Class year may be classified as a Second Classman and take most of his work on the college level. Thus, he may satisfy the requirements for the Certificate of Completion while classified as a college student taking mainly college subjects.

Mid-year academic promotions from one class to another on the preparatory level, such as from Fifth to Fourth Class, can be achieved only through the completion of course-credits. Promotions are not made on the basis of half-credits accumulated toward full-year courses.

# **CLASS DESIGNATION**

To qualify for entrance to the Fifth Class a student must submit a minimum of 3 acceptable units—units that count toward the Certificate of Completion of the Third Class. English I must be one of the units submitted.

To qualify as a Fourth Classman a student must have earned 7 acceptable units of credit.

To qualify as a Third Classman, he must have to his credit 11 acceptable units.

To qualify as a Second Classman, or Freshman in college, he must be either a graduate of an accredited high school or have earned 15 of the 16 units necessary for the Third Class Certificate. In the latter case, he is required to complete the unit he lacks while pursuing a college level program.

To qualify as a First Classman, a student must have been in residence at the Institute for one full year and have earned 30 or more semester hours of acceptable credit.

# ACADEMIC PROBATION, SUSPENSION AND DISMISSAL

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

A Third, Fourth or Fifth Classman who fails two subjects, MST included, is placed on probation.

A Cadet who remains on academic probation for two successive semesters is subject to suspension for an academic half-year. He may apply for readmission after termination of his suspension, whereupon the Admissions Board will make a decision for or against readmission. If readmitted, a Cadet is on academic probation until his work justifies change of status. If academic suspension again becomes necessary, the Cadet is granted honorable dismissal.

# **DEAN'S LIST**

To gain membership on the Dean's list, a Cadet must earn a grade point average of 3.00 or over on his entire academic program, MST included, with no grade falling below C. His program must include a minimum of four academic subjects plus MST on the preparatory level or 15 semester hours of work on the college level. Additionally, his grades in deportment and physical education must be passing.

A Cadet qualifying for the Dean's List at the six or twelve-week grading periods is entitled to certain privileges specified in the cadet *Blue Book*. If he qualifies for a half year, he is privileged to wear the Dean's List Star during the half year immediately following and to avail himself of the Dean's List furlough as prescribed in the *Blue Book*.

# GRADES

Six-week, twelve-week, and eighteen-week (half year) grades are issued. Each grade is cumulative—that is, it represents a student's standing up to the time of issuance. The grading symbols employed are: A—Excellent; B—Above average; C—Average; D—Below Average; U—Condition, (which is changed to a D or an F during the next six-week period); F—Failure; W—Withdrawn during the first three weeks or while passing; WF—Withdrawn while failing; X—Incomplete, a grade which must normally be made up within the ensuing six weeks.

A student may be permitted to repeat a course to raise an unsatisfactory grade. He may then be given full advantage of the new grade and the grade points earned. However, his transcript must reveal all grades earned.

Grade points are assigned as follows: for A, 4; B, 3; C, 2; D, 1; F, 0. High school courses, with the exception of MST, are considered of equal value in computing grade point averages. College courses are weighted according to the number of credit hours they carry.

# Proposed Curricula for First and Second Classmen LIBERAL ARTS

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

### **ENGINEERING**

English 111-112 Chemistry 113-114 Mathematics 117 or 121 Physics 107 Mathematics 141-142

mameman M.S.T. Mathematics 221-222 Physics 213-214 Mathematics 241-242 English 223

History 211-212 (Govt. 211)

M.S.T.

#### PRE-LAW

English 111-112 History 101-102 Mathematics 113-114 Chemistry 111-112 or Phys. or Biol. Modern Language M.S.T.

English 221-222 or 235-236 or other Lit. History 211-212 Government 211 Bus. Administration 211 Modern Language M.S.T.

#### PRE-MEDICINE—DENTISTRY—PHARMACY

English 111-112 Chemistry 111-112 or 113-114 Mathematics 113-114 Biology 111-112 M.S.T.

Physics 111-112 Chemistry 211-222 History 211-212 or Govt. 211 M.S.T.

### PRE-BUSINESS

English 111-112
Laboratory Science
Bus. Admin. 111-112
Elective (Language Social Science
or Mathematics)
M.S.T.

History 211-212
Economics 211-212
Bus. Adm. 211-212 (Acctg.)
Bus. Admn. 215-216 (Bus. Law)
Bus. Admin. 223 (Bus. Writing)
Bus. Adm. 224 (Statistics)
Elective: Psychology, Language, or

English M.S.T.

#### PRE-AGRICULTURE

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

### SERVICE ACADEMIES

English 111-112 History 101-102 Chemistry 111-112 or 113-114 Mathematics 121 or 111-113 or 117-118 Mathematics 141-142 or Modern Language M.S.T.

English 223 & 3 more hours Physics 213-214 or 111-112 Mathematics 221-222 Mathematics 241-242 or Modern Language Mathematics 130 or Physics 103 History 211-212 (Govt. 211)

Cadets preparing for the United States Service Academies should take 2 years of algebra, one year of plane geometry, one half year each of solid geometry and trigonometry, one year of physics, and one year of chemistry on the preparatory level.

# 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, Captain Albert E. Scott, Captain Ralph Haywood, Lieutenant Colonel Melvin C. Helfers, Captain Russell D. McKinney, Captain John Hamilton, Captain Richard H. Meeker, Captain Ian D. Naismith, Captain Hector Zamorano.

The Division encourages the use of language as a requisite for modern life, its immediate purpose being to develop written and oral communication to practical, adult. levels.

Courses within the division stress grammar, rhetoric, and the development of reading and writing skills. 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 him an opportunity to become acquainted with the great literature of the English-speaking world.

# English 2a-First semester.

Fundamentals of English grammar; spelling; extensive theme writing; three classics; five book reports from writings on approved lists.

#### English 2b—Second semester.

Introduction to world literature, ancient to modern times; three additional classics; extensive theme writing; five book reports from writing on approved lists.

#### English 3a—First semester.

Fundamentals of English grammar; vocabulary building; three classics; extensive theme writing; five book reports from writings on approved lists.

#### English 3b—Second semester.

Study of American literature; three additional American classics; extensive theme writing; five book reports from writtings on approved lists.

#### English 4a-First semester.

Study of English literature from beginning to modern times; three additional English classics; extensive theme writing; one oral report.

#### English 4b—Second semester.

Continued study of grammar, etc, letter writing; four classics; extensive theme writing, including research theme; five book reports from writings on approved lists.

# Developmental and Corrective Reading-Either semester. No Credit.

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

### Public Speaking-Second semester. Elective only.

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.

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

Main objective of this course: the writing of clear and correct exposition. Essays and other literature read to furnish practice in extracting ideas from writing and to furnish models for writing.

# English 221—English Literature. Sem. I. Cr. 3.

Survey of major writers of English literature with some attention to minor authors and to trends and backgrounds. One oral report and one paper.

Major authors studied: Chaucer, Spenser, Shakespeare, Bacon, Donne Milton, Dryden, Swift, Pope, Johnson, Boswell.

#### English 222—English literature. Sem. II. Cr. 3.

Continuation of English 221 with the following major authors studied: Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, Arnold, Shaw, Yeats, Eliot.

One oral report and one paper.

#### 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-Shakeaspeare. Sem. II. Cr. 3.

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

### 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—American Literature. Sem. I. Cr. 3.

American writing from the Colonial period to the Civil War with emphasis upon the chief figures. Historical and literary developments are studied, along with types of writing. A term theme based on Library research is required. Prerequisite: English 111-112.

## English 236—American Literature. Sem. II Cr. 3.

A continuation of English 235 which carries the student to modern American literary figures and movements. Credit may be earned in this course independently of English 235. Term paper required. Prerequisite: English 111-112.

# The Languages Department

# French

French is the language of cosmopolitan Europe, and is widely used 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 1a-First semester.

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

### French 1b-Second semester.

Continuation of the first semester.

# French 2a-First semester.

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

### French 2b-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. Se. I-II. Cr. 1-1.

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, 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 1a-First Semester.

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

#### German 1b-Second semester.

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

#### German 2a-First semester.

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

### German 2b-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.

Tape 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, Englightenment, and Sturm and 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

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

### Spanish la-First semester.

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

### Spanish 1b-Second semester.

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

### Spanish 2a-First semester.

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

### Spanish 3a and b.

Advanced composition and reading (Alternates with Spanish 4a and b).

### Spanish 3a-First semester.

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

#### Spanish 3b-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 4a-First semester.

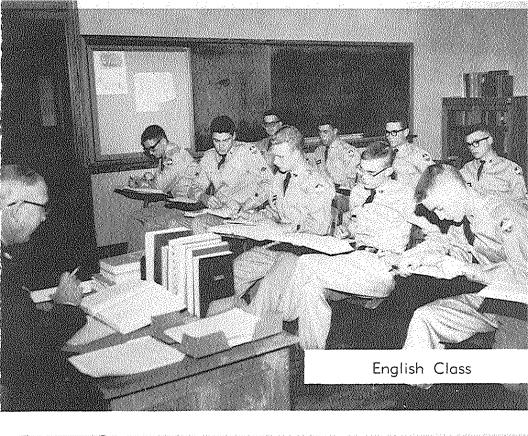
Reading and conversational course, with grammar as needed. As far as practicable, all work done in Spanish.

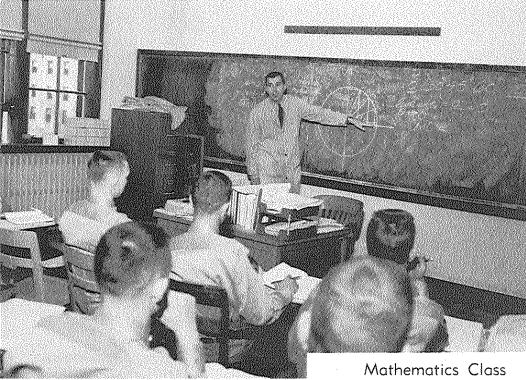
#### Spanish 4b—Second semester.

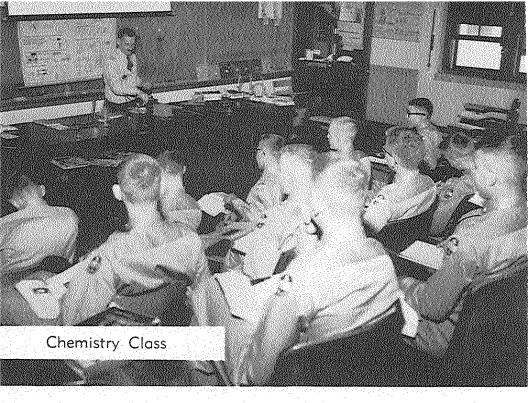
Oral and written reports; reading from Spanish-American literature; continuation of discussions in Spanish.

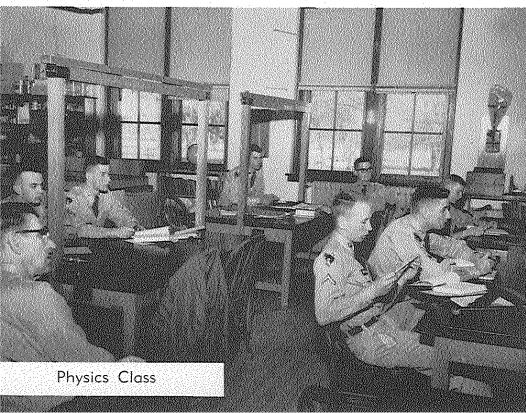
# Spanish 111-112—Elementary Spanish. Sem. I-11. Cr. 3-3.

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.

Tape 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 or 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 1a-First semester.

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

### Latin 1b-Second semester.

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

#### Latin 2a-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 2b-Second semester.

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

Latin 3a and b (Alternates with Latin 4a and b).

#### Latin 3a-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 3b-Second semester.

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

### Latin 4a-First semester.

Books, I. II, and III (in part) of the Aeneid; The hexameter; mythology. Latin 4b—Second semester.

Continuation of the Aeneid; continued emphasis upon the hexameter.



# THE DIVISION OF NATURAL SCIENCES 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 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, Major William C. Payne, Captain William F. Harris, Captain John R. Micklich, Captain Robert A. MacArthur, Captain James C. Chorn, Captain John J. Foster, Captain Allen J. Lovelace, Colonel Ellsworth N. Murray.

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 1-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 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, ingeous 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, Traissic, and Cretaceous areas of New Mexico. Prerequisite: Geology 111. Laboratory fee: \$5.

# Geology 211—Mineralogy, Crystallography and Blowpipe Analysis. Sem. I. Cr. 4 (2 $\pm$ 6L).

Study of crystal models and natural crystals. Experimental work on known and "unknown" minerals leads to study of determinative minerology. 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 1a-First semester.

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

### Biology 1b—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-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-Sem. I-II. Cr. 4-4 (3 + 4L).

Structure and function of the vegetative and reproductive organs of the higher plants. Food synthesis and use, growth and reproduction, and water relations of plants.

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).

Introduction 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 premedical 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 la-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, film strips, models, and charts.

## Chemistry la-Laboratory.

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

#### Chemistry 1b-Second semester.

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

#### Chemistry 1b-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. Unknowns will be studed by sections having double laboratory periods.

# 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. Moelcular 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. 1 or 11. 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. 1-II. Cr. 5-5. (3 + 8L).

Primarily for science majors. Lectures, discussion of basic organic types of aliphatic or 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 112 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.

### Albegra la and b-Both semesters.

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

### Algebra 2a and b.

Review of first year algebra; numerical and literal quadratic equations, exponents and radicals. Prerequisite: Elementary Algebra.

### Algebra 2b-Second semester.

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

Albegra 2 a and b are equivalent of Mathematics A2, Quadratics and beyond, as designated by the College Entrance Examination Board.

# Geometry 1a-First semester.

Theorems, construction, and practical applications of geometry to every-day living.

# Geometry 1b-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. Prerequisite: Algebra IL

### 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. Prerequisite: Algebra II.

# Drawing la-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: Trigonometry and consent of the instructor.

# Mathematics 111-Intermediate Algebra. Sem. 1 or 11. 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, cominations, 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. 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 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 use in the field. Determination of azimuth from observation on Polaris; simple curves; computation of earthwork. Prerequisite: Trigonometry; knowledge of drawing helpful.

### Mathematics 141-142—Engineering Drawing, Sem. I-II. Cr. 2-2 (I + 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 221-22—Differential and Integral Calculus. Sem. I-II Cr. 4-4.

Concepts of velocity and rate of change; differentiation and integration of polynominals, 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 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, 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 1a-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 1b-Second semester.

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

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

### Physics 103-Theory of Flight. Sem. I or II. Cr. 2.

Primarily for candidates for the Air Force Academy.

Survey of the basic physical concepts underlying aircraft, spacecraft, their engines and their modes of flight. Prerequisite: High school physics and Algebra I.

### Physics 105-Slide Rule, Sem. I or II. Cr. 1.

A course designed to give proficiency in the use of the slide rule. Problems are taken from the science and business fields. The cadet must get a slide rule.

### Physics 106—Engineering Orientation. Sem. 1. 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 121—Physical Meterology. Sem. I. Cr. 2.

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

# Physics 123-First Principles of Atomic Physics. Sem. II. Cr. 3.

The course is a review of the laws of mechanics, heat, light, and electricity as applied to particles. This is followed by a study of radiations, radioactivity, the atom, and the nucleus. Particle accelerators, reactors, and nuclear energy are also considered.

Prerequisite: Physics 111, Chemistry 111 or an equivalent.

# Physics 151—Elements of Electricity. Sem. 1. 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 premedics. 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.

# THE DIVISION OF SOCIAL STUDIES

Lieutenant Colonel Vester Montgomery, Division Chairman

Captain Daniel S. Day, Social Studies Department Chairman

Captain Howard G. Murphy, Business Administration Department Chairman

Major Edward M. Praisner, Captain Donald L. Neelen, Captain Mack Peyton, Captain Eugene F. McGuire, Captain Charles F. Ogilive, Captain Roger R. Gamble.

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 backgrounds 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 intelligent 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 humanities, and in such fields as law and education; to promote facility in the oral and written communication of ideas.

# History

#### History Ia-Ancient and Medieval History. 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 1b-Second semester.

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

#### History 2a-Modern History. First semester.

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

### History 2b-Second semester.

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

### History 3-English History.

Either semester; one half unit of credit. Emphasis on England from 1066-1638, 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 4a—American History. 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 4b-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 or 232 are courses of particular value to students in ad-

vanced 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 1-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 contracting 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 1-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.

# Economic Geography III: See page 48.

# 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 contracted 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. 1 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 1a-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 1b-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 la-Either semester.

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

### Typewriting 1b.

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 riting, preparing classroom assignments, preparation of term papers. Not for students who have credit for a similar course.

# Business Administration 111-Introduction to Business. Sem. 1. 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 everyday in 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.

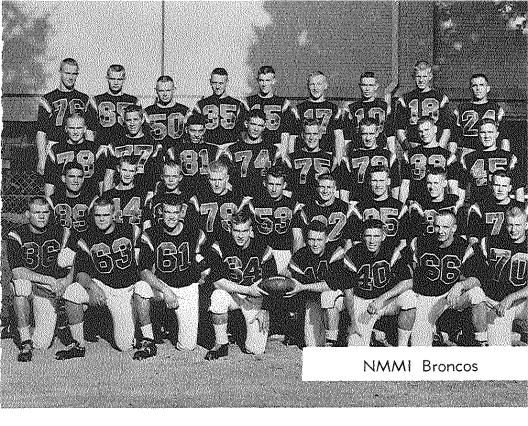
The Uniform Negotiable Instruments of Law examined in detail. Sales, bailments and carriers. Case analyses constitute a large part of discussion. classroom work, and assignments. Prerequisite: B. A. 215, or permission of instructor.

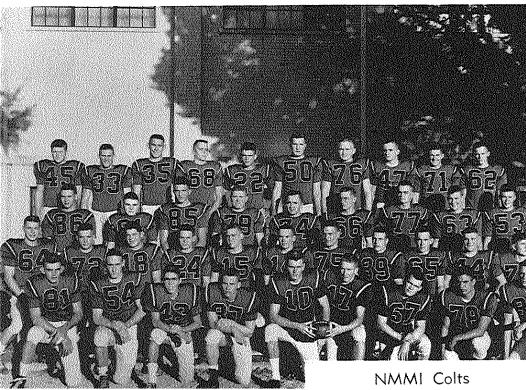
# Business Administration 223-Business Writing. Sem. I. Cr. 3.

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.

Basic statistical concepts which are commonly used by business men are studied. 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.









# DEPARTMENT OF MILITARY SCIENCE AND TACTICS

Colonel Robert E. O'Brien, Armor, Professor of Military Science and Tactics Major William H. Stites, Armor, Assistant PMST Captain Ken A. Davis, Armor, Assistant PMST Captain Richard G. Vander Meer, Assistant PMST Sergeant Major James F. Gambill, Sergeant Major Master Sergeant J. W. Athey, Instructor Master Sergeant Thomas J. Breslin, Instructor Master Sergeant Harold E. O'Neil, Instructor Sergeant First Class Johnny P. Taylor, Instructor Sergeant William R. Carpenter, Instructor

The Department of Military Science and Tactics is organized under Army Regulations prescribed for a Military Junior College. This Department is headed by the 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 to conduct the Reserve Officer's Training Corps (ROTC) program at NMMI. Since 1909 the Institute has continuously received the designation of a Military School Honor ROTC unit, conferred by the Department of the Army to schools whose achievement merits such distinction.

# **Objective**

The objective of the ROTC program is to prepare cadets for appointment as commissioned Regular or Reserve Officers in the United States Army. The objective necessitates emphasis on leadership, integrity, and mental and moral discipline.

# Scope

The ROTC program at a Military Junior College, such as NMMI, consists of six courses, designated MST 1 through 6. While each course normally requires one year for completion, the four lower courses (MST 1 through 4) may be compressed into either two or three year long courses. Thus a Cadet can complete the entire program in

either four or five years, depending upon whether he enters as a fourth or fifth classman. A Cadet entering as a Second or Third Classman, while he cannot complete the entire program at NMMI, can transfer credit for courses completed to ROTC units in degree-granting colleges. All Cadets are required to participate in the ROTC program, either as official or unofficial students. The latter are those cadets who have not met the requirements for official enrollment or do not wish to assume the obligations thereof. Officially enrolled Cadets attend ROTC Camp for a sixweek period during the summer following the MST 5 course.

# Commission in the Army Reserve

A Cadet who completes MST 6 can secure a commission in the US Army Reserve upon earning a baccalaureate degree.

# Commission in the Regular Army

A Cadet may qualify for consideration for a commission in the Regular Army by being selected as a Distinguished Military Student. To be eligible for such selection, he must stand in the upper third of his ROTC class for MST 5 and MST 6, must stand in the upper half of his academic class, and demonstrate outstanding qualities of leadership, character, and aptitude for the military service. Selection of Distinguished Military Students from ROTC units throughout the country for commission is made by the Department of the Army. A Distinguished Military Student must obtain his baccalaureate degree before he is eligible for the foregoing selection.

## Nomination to the Service Academies

Since the Institute has received the rating Military School Honor ROTC Unit, the Superintendent may nominate three cadets each year to compete for appointments to each of the three service academies. Such cadets must have finished their Third or First Class year, or will do so at the end of the academic year. This does not eliminate a Second Classman from nomination. For the Military

and Naval Academies, the nominee must have completed two years in the ROTC also. A nominee must have passed his 17th birthday, but not his 22nd, at the time of his entrance to the service academy. In addition to the foregoing, cadets are counselled and assisted in securing admission to the service academies from other sources.

### Selective Service Deferment

A First or Second classman who is officially enrolled in the ROTC may be deferred from Selective Service after one semester of the Second Class year, so long as his Military Science and academic grades are satisfactory. Cadets in the lower classes are automatically deferred without application.

## Organization of Training

ROTC academic instruction is conducted during the week in accordance with the regular academic schedule. Inspections and tactical field exercises are held on Saturday mornings. Drill is conducted on two afternoons per week for one hour each, and parades are held on Sunday afternoons.

# ROTC Curriculum

## Military Schools Training (MST) 1-4

Objective: To introduce Cadets to basic military subjects, to inculcate habits of orderliness and precision, to instill discipline, to encourage a high standard of personal honor and deportment, and to prepare the Cadet for enrollment in the advanced courses of MST 5 and 6, which lead to a commission.

#### MST 1 and 2 (Compressed)

Required for new Cadets, any class. Cadet must be a citizen of the United States and physically fit. Prior service in the active Army and/or prior ROTC training will be evaluated, with appropriate credit given toward placement in the ROTC program.

Subjects: Orientation and introduction 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; small unit tactics.

Credit: One unit of credit towards the Institute Certificate will be given for MST courses 1 through 4. First and Second Classmen receive four semester hours credit for MST 1 and 2 compressed.

#### MST 3

Required for Fourth Classmen who have completed MST 1 and 2 (com-

pressed).

Subjects: Principles of leadership, map reading and compass; weapons and rifle marksmanship; leadership, drill, and exercise of command; ceremonies; inspections; small unit tactics.

Credit: For Third and Fourth Classmen the statement of credit for MST 1&2 is applicable. First and Second Classmen do not take this course.

MST 3&4 (Compressed)

Required for First, Second, or Third Classmen who have completed

MST 1 and 2 (compressed), only.

Subjects: Principles of leadership, military teaching methods; maps and aerial photographs; weapons; rifle marksmanship; new developments; leadership, drill, and exercise of command; ceremonies; inspection; small unit tactics.

Credit: For Third Classmen, the statement of credit for MST 1&2 is applicable. First and Second Classmen receive four semester hours credit

for MST 3&4 (Compressed).

#### MST 4

Required for third classmen who have completed MST 3.

Subjects: Military teaching methods; maps and aerial photographs; rifle marksmanship; new developments; leadership, drill, and exercise of command; ceremonies; inspections; small unit tactics.

Credit: Statement of credit for MST 1&2 is applicable to Third Class-

men, the only cadets eligible for MST 4.

# Military Schools Training (MST) 5 and 6

Objective: To qualify the Cadet in those advanced military subjects which will enable him to be commissioned in the Army when he obtains a baccalaureate degree.

#### MST 5

Requirements for official enrollment:

- 1. Be enrolled in the First or Second Class.
- 2. Successfully complete MST 1 through 4.
- 3. Pass Army Screening Test and physical examination.

Execute an oath of loyalty.

5. Execute a contract with the Government in which cadet agrees to complete MST 5 and 6 and to accept a commission if offered.

6. Demonstrate qualities and positive potential for becoming an ef-

fective officer.

Subjects: Crew served weapons and gunnery; role of the Army in National defense; basic communications; organization; functions, and missions of the branches of the Army; logistics; leadership, drill, and exercise of command; ceremonies; inspections; small unit tactics; new developments. Attends ROTC Camp during the summer following completion of MST 5.

Credit: Six semester hours.

#### MST 6

Requirements for official enrollment:

- Be enrolled in the First Class.
- Successfully complete MST 5.
- Continue to demonstrate qualities and positive potential for becoming an effective officer.

Subjects: Operations; military administration and military justice; leadership, drill, and exercise of command; ceremonies; inspections; small unit tactics; new developments; service orientation.

Credit: Six semester hours.

#### 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 5 may be correlated to MS III (contract). Completion of MST 6 may be correlated to MS IV and completion of Senior ROTC.

### Allowances

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 oficially enrolled in MST 5&6 there is a Subsistence Allowance which amounts to \$.90 per day.

#### 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 spirit and traditions, gained through more than a decade in her service. He brought, too, a practical man's vision and determination, a rigid sense of fairness and justice. He was preeminently 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. The Institute functions presently under a "Branch immaterial program."

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 increased academic awareness.

Upon the return of General Milton to Army Service in 1951, Colonel Ewing L. Lusk, over thirty years in Insti-

tute 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 Lusk retired in 1952 to supervise his ranching interests.

Colonel Charles F. Ward, long in Institute service as teacher of history and high school principal, served three years as Superintendent, retiring 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 Cavalary 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.

### OFFICERS OF ADMINISTRATION

### Board of Regents

His Excellency, the Honorable John Burroughs Governor of New Mexico

Mr. Tom Wiley State Superintendent of Public Instruction

Appointed by the Governor:

Mr. Truman A. Spencer, Jr. Mr. B. B. Armstrong Mr. M. R. Prestridge Mr. Homer Glover Mr. Walter O. Berger

Officers of the Board
Mr. Truman A. Spencer, Jr., President
Mr. B. B. Armstrong, Vice-President
Mr. Homer F. Glover, Secretary-Treasurer

### Administrative Staff

(Dates indicate the beginning of Institute service).

- Lieutenant General Hobart R. Gay, USA (Ret), B.S., Knox College, LL.D., Knox; Superintendent; 1955.
- Brigadier General John P. Willey, USA (Ret), B.S., Virginia Polytechnic Institute; Commandant of Cadets; 1955.
- Colonel James R. Kelly, A. B., North Dakota, M.A., Chicago; *Dean*; 1924.
- Lieutenant Colonel Carl J. Rohr, B.S., Denver; Business Manager and Adjutant; 1941.
- Captain Raymond Holland, Jr., S.B., Mass. Inst. of Technology; Registrar and Director of Admissions; 1959.
- Colonel Robert E. O'Brien, USA, B.S., U.S. Military Academy; Professor of Military Science and Tactics; 1957.
- Dr. I. J. Marshall, A.B., Simmons, M.D., Baylor; Surgeon; 1935.

### Academic Staff

- Colonel James R. Kelly, A.B., North Dakota, M.A., Chicago; *Dean*; 1924.
- Lieutenant Colonel Alfred N. Carter, A.B., B.J., M.A., Texas; Chairman, Division of English and Languages; Supervisor of Fifth Class, Professor of English; 1929.
- Lieutenant Colonel Vester Montgomery, B.S., M.A., Oklahoma; Chairman, Division of Social Sciences; Supervisor of Third Class; Professor of History; 1929.
- Lieutenant Colonel William C. Roudebush, A.B., Miami (Ohio), Ph.D., Cincinnati; Chairman, Division of Natural Sciences and Mathematics; Supervisor of Fourth Class; Professor of Mathematics; 1939.
- Lieutenant Colonel Patrick H. Gratton, A.B., Western State, M.A., Colorado; Chairman, Department of English; Associate Professor of English; 1927.
- Liuetenant Colonel G. Merton Sayre, B.A., Milton, M.A., Wisconsin; Chairman, Department of Languages; Associate Professor of French; 1928.
- Major J. Bryan Ellis, B.S., M.S., Michigan; Chairman, Department of Physical Sciences; Associate Professor of Physics; 1929.
- Major Charles S. Whitney, Jr., A.B., M.S., Oklahoma; Chairman, Department of Mathematics; Associate Professor of Mathematics; 1929.
- Major James H. Sikes, A.B., Abilene Christian, M.S., Texas A. and M.; Chairman, Department of Biological Sciences; Associate Professor of Biology; 1942.
- Captain Daniel S. Day, A.B., Oberlin, M.A., Ph.D., California (UCLA); Chairman, Department of Social Studies; Associate Professor of History; 1956.
- Captain Howard G. Murphy, B.S., M.S., Syracuse; Chairman, Department of Business Administration; Assistant Professor of Business Administration; 1951.
- Major Robert Shaw, B.S., Otterbein College; Head Coach and Director of Athletics; 1960.

- Major Harry D. Blake, B.S., New Mexico A. and M.; Assistant Professor of Biology; 1927.
- Major James W. Branch, B.A., Arkansas, M.A., North Texas State; Assistant Professor of English; 1944.
- Captain Robert D. Brophy, B.A., Buffalo; Instructor of Latin; 1958.
- Captain Marshall Brown, B.S., M.A., Alabama; Coach; 1958.
- Captain James C. Chorn, B.S., M.S., Texas Tech; Instructor of Biology and Chemistry; 1957.
- Captain Ken A. Davis, USA, B.A., Washington; Assistant Professor of Military Science and Tactics; 1957.
- Captain Robert F. Dennis, B.A. Northwest Nazarene, M.A., West Texas State; Coach, and Commandant's Assistant; 1959.
- Captain Ronald B. DeWaal, B.S., Utah, M.A., Denver; Head Librarian; 1959.
- Major W. Wayne Foreman, A.B., William Jewell, M.S., Chicago; Assistant Professor of Chemistry; 1929.
- Captain John J. Foster, B.S., North Dakota, M.E., West Texas State; *Instructor of Engineering Drawing*; 1958.
- Captain John Hamilton, B.A., Coe, M.A., New Mexico; Instructor of English; 1959.
- Captain William F. Harris, B.A., M.A., Oklahoma A. and M; Assistant Professor of Biology; 1951.
- Captain Ralph S. Haywood, A.B., M.A., Texas Western; Instructor of English; 1954.
- Lieutenant Colonel Melvin C. Helfers, USA (Ret), A.B., Citadel, M.A., Duke; *Instructor of German*; 1959.
- Captain Sam P. Jones, B.A., Denver; Coach; 1959.
- Captain Allen J. Lovelace, B.S., M.S., North Texas State; Instructor of Biology; 1958.

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- Captain Robert A. MacArthur, Ph.B., Wisconsin, M.A., Western State College; Instructor of Mathematics; 1957.
- Captain Robert F. McDavid, B.S., Notre Dame, M. Ed., Mississippi; Coach; 1956.
- Captain Eugene F. McGuire, B.S., West Texas State, M.A., California; *Instructor of Political Science*; 1959.
- Captain Russel D. McKinney, B.A., M.A., New Mexico A. and M.; *Instructor of Spanish*; 1956.
- Captain Richard H. Meeker, B.A., New Mexico; *Instructor of English*; 1959.
- Captain John R. Micklich, A.B., Baker University, 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 College, M.A., Denver; Assistant Professor of Physics; 1942.
- Colonel Ellsworth N. Murray, USMC (Ret), B.S., U. S. Naval Academy, M.A., California; *Instructor of Mathematics*; 1952.
- Captain John F. Musciano, B.S., Colorado; Coach; 1960.
- Captain Ian D. Naismith, M.A., University of Glasgow; Instructor of English; 1959.
- Captain Donald L. Neelen, B.A., Dakota Wesleyan; M.B.A., University of Denver; Instructor of Business Administration; 1953.
- Major Grant N. Nelson, B.S., North Dakota, M.S., Southern California; Assistant Professor of Chemistry; 1943.
- Captain Charles F. Ogilvie, B.A., Baylor, B.D., Th.M., Southwestern Theological Seminary, M.A., Texas Tech; *Instructor of History*; 1959.
- Colonel G. Seth Orell, B.S., M.S., Denver; Assistant Professor of Chemistry; 1931.

- Major William C. Payne, A.B., Trinity, M.A., West Texas State; Assistant Professor of Mathematics; 1946.
- Captain Mack Peyton, B.S., M.A., Wyoming; *Instructor of History*; 1958.
- Major Edward M. Praisner, B.S., Stroudsburg State, M.A., New Mexico; Assistant Professor of Social Science; 1946.
- Captain Albert E. Scott, B.A., Morningside, M.A., University of New Mexico; Instructor of English and Developmental Reading; 1953.
- Miss Margaret Elizabeth Shouse, A.B., William Jewell, M.A., Denver; Assistant Librarian; 1958.
- Major Dwight H. H. Starr, B.A. North Texas State, M.A., Columbia; Assistant Professor of English; 1928.
- Major William H. Stites, USA, B.S., U. S. Military Academy; Assistant Professor of Military Science and Tactics; 1959.
- Captain Richard G. Vander Meer, USA, B.S., U. S. Military Academy; Assistant Professor of Military Science and Tactics; 1959.
- Captain Hector Zamorano, B.A., M.A., Texas Christian; Instructor of Spanish; 1959.

### Administrative Staff Assistants

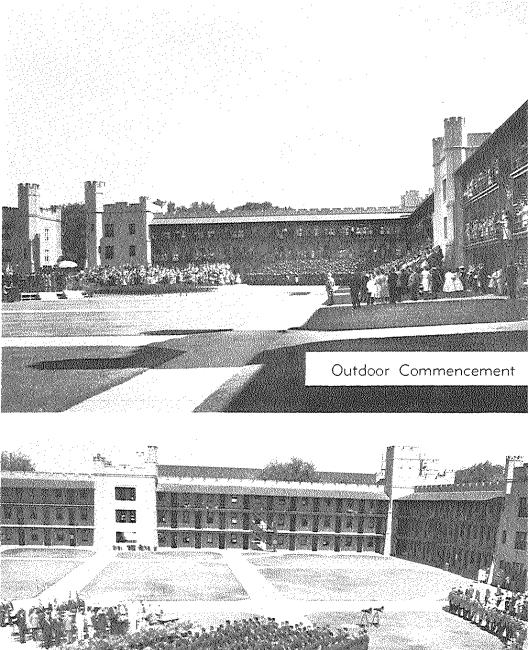
- Captain R. Glenn Armstrong, Mess Officer, 1957.
- Mrs. Helen S. Clark, Admissions Secretary, 1953.
- Mrs. Helen E. Cookson, Secretary to the Superintendent, 1930.
- Major Rodman M. Cookson, A.B., Hardin-Simmons, M.A., Eastern New Mexico; *Chaplain*; 1951.
- Captain Pat L. Fuqua, B.B.A., Southwest Texas State Teachers; Chief Accountant and Assistant to the Adjutant; 1956.
- Captain Roger R. Gamble, B.S., Bemidji State; Commandant's Assistant; 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.
- Captain J. Thomas Murrell, Purchasing Agent, 1957.
- Captain Fred S. Norcross, Jr., B.S., Carroll; Commandant's Assistant; 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.
- Captain Alton L. Sample, Manager Laundry and Dry Cleaning; 1954.
- Captain Thomas O. Schlueder, AGC (Ret), Administrative Assistant, Office of Admissions and Records; 1956.
- Captain Frederick R. Stimus, Rutgers University; Commandant's Assistant; 1959.

# Retired Faculty and Staff with Emeritus Standing

- Miss Modene D. Bates, 1921-24, 1926-1951, Registrar.
- Major Russell G. Bird, 1926-1928, 1929-1951, Assistant to the Adjutant.
- Miss M. Margaret Decker, 1916-1946, Instructor of 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 John C. Kost, Jr., 1928-1960, Instructor of Latin, Principal, Assistant Dean.
- Colonel Ewing L. Lusk, 1910-13, '16-17, '18-19, 1921-1952, Mathematics Instructor, Principal, Superintendent.
- Lieutenant Colonel John E. Smith, 1930-1950, Instructor of 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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Commencement at NMMI is always an outdoor affair and is staged in the Barracks Area to accommodate the large number of parents, friends, and alumni who attend. Another important Commencement event is the Final Ball with its elaborate decorations and crowning of the Queen of the Corps. It is a final social compliment by the Second Class to the graduating First Class and their ladies.









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