Class of 2025 Academic Majors

A Primer to explore the Academic Majors offered at the United States Military Academy
• This primer is designed to give you information so you can start exploring an academic major.
  – Just the beginning and should not be your only source to make a decision.
  – Has POC information for every major so you can reach out to that Department to start a conversation.
## 37 Core Course Curriculum

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### 13 Elective Courses

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### Curricular Framework

1. Designed to address the needs of the Army of today and the future
2. Layered and integrated threads provide foundational knowledge
3. Modern Thayer Method teaches cadets how to think, not what to think

** STEM (13), HSS (17), Phys Ed (7), Electives (13) **
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Yellow-shaded cells = slots to Schedule in each Major including Complementary Support Courses (CSC), Science 2 & 3CES

Credits
- 16.5-17.5
- 17.5
- 17
- 16-17
- 15+
- 15+
- 15+
- 15+

Credits with MS/PE balanced
- 17.5-18.5
- 19
- 18.5
- 18-19
- 16+
- 16.5+
- 16.5+
- 15+
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**NOTES:**
1. These links take you to the first page of the major’s section.
2. Academic Majors are taught by these Departments.
Behavioral Sciences and Leadership (BSL)
What is Engineering Psychology?

Have you ever used technology or a piece of equipment that was confusing, frustrating, and just didn’t work the way that it should? That’s because the designer forgot to keep you, the user, in mind. When it’s your phone, it’s an inconvenience; on the battlefield, it can be disastrous. Poorly designed equipment could cause costly errors or even injure Soldiers.

Engineering Psychology teaches you how people process information. Then you take that knowledge and design safe, effective, and efficient technology. We make intuitive technology, and improve human performance.

The products of Engineering Psychology are all around us, from the well designed Stryker Remote Weapon System (done well) to the confusing CIS interface (done not so well). E-Psych Cadets work on projects that make a tangible impact including:

- Afghan Army Camo re-design
- ARES Augmented Reality Sand table
- Room-clearing Robots
- Virtual Reality therapist (Ellie) working with Soldiers suffering from PTSD

Why Engineering Psychology?

Technology is everywhere and is an integral part of our lives—from phones in our pockets to an Apache cockpit. We rely on it, and Engineering Psychology will teach you humans’ capabilities and limitations, how to identify good and poor designs, and how to integrate technology to improve performance in daily life and on the battlefield.

Engineering Psychology is the only academic program at West Point that combines an in-depth understanding of human behavior and integrates that with engineering principles designed to improve how we interact with technology.

What Will You Study?

In Yuk and Cow year, you will learn the theories that can be used to explain and predict human behavior. You will focus your understanding on the mental and physical capabilities and limitations of humans while learning the art of applied experimental research.

As a Firstie, you will integrate this information and apply these theories to solve Army and Soldier problems with stakeholders from corporations, DOD labs and other universities.
Engineering Psychology Curriculum

Yearling Year
You will take a deeper dive into the cognitive capabilities of the human mind.

- PL390: Biological Psychology
- PL392: Cognitive Psychology

Cow Year
You will learn the mental and physical capabilities and limitations of humans and be introduced to how to conduct applied experimental research.

- PL386: Experimental Psychology
- PL391: Sensation & Perception
- MA376: Probability & Statistics
- PL394: Anthropometrics & Biomechanics

Firstie Year
You will analyze existing systems to identify and correct shortcomings, and you will develop new systems based on user-centered design principles.

- PL475: Human Computer Interaction
- PL488-E: E-Psych Colloquium
- PL485: Human Factors Engineering
- PL490: E-Psych in Design
- PL497: Independent Study (Honors)
- PL498: Independent Study (Honors)

E-Psych Laboratories
Our laboratory facilities provide exceptional support for undergraduate teaching and research in Engineering Psychology:

- Simulations Lab: Analyze linguistic patterns of Soldiers with PTSD talking to Ellie, a VR therapist. Investigate the efficacy of augmented reality in battlespace visualization using ARES.
- Robotics Lab: Use and evaluate cutting edge robotic interfaces
- BioPsych Lab: Dissect sheep brains and eyes
- Biomechanics Lab: Analyze physical movements via force plate and motion capture

AIADs
Every summer, Cadets travel the globe and make a difference working side-by-side with industry professionals at places like:

- NASA, Mountain View, CA
- Walter Reed, Washington, DC
- HRED, Aberdeen, MD
- USC's ICT, Los Angeles, CA
- And International Locations: Australia, Sweden, Australia, and Israel

For more information, contact Engineering Psychology Faculty, Room TH267

LTC Lolita Burrell (845) 938-5640
Dr. Ericka Rovira (645) 938-5902
Dr. Michael Matthews (845) 938-3696
COL James Ness (845) 938-0239
MAJ Adam Werner (845) 938-5635
Dr. Aryn Pyke (845) 938-0066
Dr. Michael Boyce (845) 938-5643
Dr. Rob Thomson (845) 938-5662

Complementary Support Courses
Within the program, you have 3 Complementary Support Courses (CSCs), or electives, that you can choose. E-Psych offers 50 elective classes across 15 different majors. E-Psych's application across disciplines gives you unparalleled flexibility and academic freedom. Here are some classes you could take:

- LG371: Intermediate German
- PL471: Leadership in Combat
- MG379: Leading Teams
- ME370: Computer Aided Design
- SE485: Combat modeling

Semester Abroad
Going abroad to another service academy or country is one of the most developmental opportunities you have at West Point. Within E-Psych we will work with you to go abroad, typically 2nd semester of your Cow year.

Previously, we have sent Cadets to Brazil, Germany, the Air Force Academy, the Naval Academy, France, Portugal, China, Morocco, and Mexico.

Honors Program
To be eligible for the E-Psych Honors Program, Cadets must have a 3.0 cumulative GPA and a 3.5 GPA in the major at the end of their second class year. You will have an opportunity to work 1-on-1 with faculty executing an independent study. In the past, Cadets have published their research in peer-reviewed journals.

Advanced Individual Study (Choose Both)

- PL497: Seminar in Engineering Psychology
- PL498: Adv.Study in Engineering Psychology
Why Management?

Our Army operates in a complex, ambiguous, and volatile global environment. More than ever, we need leaders capable of accomplishing our challenging missions and taking great care of our Soldiers and their families in an era of constrained resources.

While you should be focused on developing your leadership skills in order to prepare for your future roles as platoon leaders in combat, you will also need a great deal of managerial skill to succeed, both in the Army and out.

How does the training that prepares your unit for operational deployment and combat get planned, resourced, and assessed? How will you maintain and account for the equipment that your unit relies on to perform its mission?

Without the ability to recognize and effectively manage critical issues like these, the time you have available to properly lead and take care of your Soldiers will disappear.

The Management Major prepares you to lead efficient and effective organizations by developing critical managerial skills. You will study concepts and frameworks that will apply throughout your career in the Army and beyond.

We bring theory to life using real-world examples, analyzing situations faced by managers in organizations from Google to Under Armour to USMA. Our hope is to inspire in you a curiosity about how things run, and arm you with tools necessary to lead an efficient and effective organization.

Do you have the skills necessary to make a difference in the Army... and beyond?

The Management faculty is committed to your education and development. As a Management major, you can expect a level of mentorship and individualized guidance that cannot be found in any other management program in the nation.

You are our number one priority.

Click here to learn more about our major!
Entrepreneurial Leadership Program

Build real world business plans either of your own choosing or in conjunction with cadet researchers in other departments. Under careful faculty guidance, you will develop comprehensive business plans and compete in the Mid-Hudson Valley Regional Business Plan Competition.

Enriching AIADs

The Management major coordinates over 30 AIADs each year, including opportunities both in the US and abroad.

Past AIADs include:

- Beijing International MBA Program
- Banyan Tree Holdings
- Chipotle Mexican Grill
- Wal-Mart National Headquarters
- IESE Business School
- Team RWB
- Starbucks
- Inst. for Creative Technology
- Pretoria University MBA Program
- General Electric
- ESPN
- Pretoria University MBA Program

Tailor Your Education to Your Interests by Choosing from 1 of 3 Management Tracks

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Plus three Complementary Support courses from more than 20 offerings.

The Management Major Is...

Challenging

"The Management instructors are very intelligent and are able to push the students to learn in and out of the classroom."

Interdisciplinary

"From community service to broadening trip sections to real life management challenges, the Management major provides it all."

Relevant

"The courses in the management major are some of the most applicable skills I learned while at the Academy - to both my personal life and my career as an Army officer alike."

Course Requirements

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<td>Business Activities, Transaction Analysis, Financial Statement Analysis</td>
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<td>Acquiring, Developing, Compensating, and Managing Human Resources</td>
<td>Time Value of Money, Risk and Return, Valuation, Financial Analysis</td>
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Marketing (MG380)
Marketing Principles, Brand Development, Strategic Communication

Leading Teams (MG379)
Small Group Dynamics, High Performance Work Teams, Maximizing Team Effectiveness

Strategic Management (MG421)
Capstone: Application of all disciplines to achieve organizational success.
The Department of Behavioral Sciences & Leadership

Majoring in Psychology

Why major in Psychology?

As an officer in the United States Army, your most critical asset to achieve success is not your equipment, or your knowledge about tactics, or the systems that you manage...it is the people for which you are responsible. The Army is a people-driven organization, where no one does anything by themselves and the unit succeeds or fails as a collective.

By majoring in Psychology and developing your own deep understanding of human behavior, you gain an edge in the most important domain on the battlefield: the human dimension. You will learn how to motivate, influence, and develop others through courses like Foundational Counseling & Social Psychology. You will learn valuable skills to apply in both Army and research contexts in courses like Research Methods and Experimental Applications in Psychology.

These skills will pay dividends both in the Army and beyond. Regardless of the length of your Army career, as a USMA graduate in the private sector you will likely still be managing or leading others toward a shared goal...why not do everything you can now to be the best you can be at it!? 

For additional information, please contact any of the following:

Dr. Marjorie Carroll, 274F Thayer, 938-5642, marjorie.carroll@westpoint.edu
COL Vic Deekens, 274G Thayer, 938-1381, victor.deekens@westpoint.edu
Dr. Lisa Korenman, 274H Thayer, 938-4806, lisa.korenman@westpoint.edu
CPT Chris Frasse, 274E Thayer, 938-0702, christopher.frasse@westpoint.edu
CPT Jeremiah Powers, 274C, Thayer, 938-7169, Jeremiah.powers@westpoint.edu
Majoring in Psychology

Psychology majors choose between two different tracks:
- **“Applied General Psychology”** is focused on applying knowledge of psychology to improve the development, performance, and well-being of individuals (Soldiers).
- **“Organizational Psychology and Leadership”** is focused on applying knowledge of psychology to select and develop leaders, and improve the effectiveness of groups, teams, and organizations.

### Core Courses for both the Applied and Organizational track

- **PL361** Research Methods
- **PL383** Social Psychology
- **PL387** Foundations of Counseling
- **PL462** Advanced Research Methods
- **PL488B** Psychology Colloquium

### Applied track

**Take the following 3 courses:**
- **PL250:** Neurocognitive Foundations of Behavior
- **PL373:** Life-Cycle Human Development
- **PL376:** Abnormal Psychology

### Depth of discipline courses

Choose 2 of the following:
- **PL360:** Psychology of Elite Performance
- **PL390:** Biological Psychology
- **PL391:** Sensation/Perception/Psychophysics
- **PL392:** Cognitive Psychology
- **PL471:** Leadership in Combat
- **PL470:** Special Topics in BS&L

For those in the Applied track:
- **PL398:** Leadership Theory & Development
- **MG379:** Leading Teams
- **PL479:** Leading Organizations through Change

### Organizational track

**Take the following 3 courses:**
- **PL398:** Leadership Theory & Development
- **MG379:** Leading Teams
- **PL479:** Leading Organizations through Change

### Depth of discipline and complimentary support courses for both tracks

- **Complimentary Support Courses**
  Choose 3 Courses from an expansive menu that includes the following topics:
  - Medicine
  - Law & Society
  - Peace & Conflict
  - Sex & Gender in the Military
  - Human Performance
  - Philosophy
  - Culture
  - Mathematics
  - Cyber psychology
  - Business

We offer a pre-med track for those interested in medical school!
The Honors Program for Sociology majors consists of a two-course sequence in areas that they select. In these projects, cadets are challenged to integrate the theories and skills learned in previous courses and to make an innovative contribution to the discipline’s body of knowledge. Minimum which cadets will complete a thesis in addition to the courses required for the major. Cadets will conduct a research project that includes original investigation in GPA of 3.00 required.

The Sociology Program sets the standard for developing inclusive leaders of character.

For More Information

Contact our Sociology Faculty
COL Remi Hajjar remi.hajjar@westpoint.edu
Dr. Morten Ender morten.ender@westpoint.edu
MAJ Bryan Williams bryan.Williams@westpoint.edu
MAJ Jess Dawson Jessica.dawson@westpoint.edu
CPT(P) Lily Garcia Lidilia.Garcia@westpoint.edu
Room 282 Thayer Hall
(845) 938-5031
www.dean.usma.edu/bsl
To be an effective leader, you must understand your Soldiers and our society. The men and women you will lead are drawn from many different cultures, races, and ethnicities, they have varied beliefs and values, and institutions of foreign societies. Sociology prepares you to succeed as a leader.

- Prepares officers to become effective cross-cultural and inclusive leaders.
- The sociology major is one of the most flexible and broadly encompassing programs at the Academy.
- Courses let you study criminology, militaries, cultures and many other relevant societal topics.
- Explore how understanding military families can make you a better leader.
- Watch films such as *Barbershop*, *Elysium*, *Fight Club*, & *Good Will Hunting* among many others to understand and apply your sociological imagination.
- Find out how people become criminals and how society deals with them in the Criminology course.

**Definitely take it. It is fun, interesting... Most importantly relevant... we get the opportunity to talk real Army stuff in a relaxed classroom environment. And when I say Army stuff, I don’t mean tactics... I mean stuff like marriage, family, race, gender etc. Stuff we will definitely deal with.**

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### Core Classes (All Required)

- PL363: Qualitative Social Research Methods
- PL371: Introductory Sociology
- PL372: Marriage and the Family
- PL377: Social Inequality
- PL384: Sociological Theory
- PL393: Criminology
- PL482: Armed Forces and Society
- PL488D: Sociology of Military Films

### Depth of Discipline (Pick 2)

- PL361: Quantitative Social Research Methods
- PL383: Social Psychology
- SS381: Cultural Anthropology
- PL497: Seminar in Behavioral Sciences
- PL498: Advanced Seminar in Sociology
- SS360: Pol Sci Research Methods
- SS368: Econometrics I
- SS390: Behavioral Economics
- SS392: Politics, Race, Gender, Sexuality
- EN300: Literary Methodologies
- MA367: Math For The Social Sciences
- MA376: Applied Statistics
- MA394: Fundamentals of Network Science
- HI398: Society and Culture in American History

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PL377 Social Inequality

“This experience showed me that the sense of family is not just something that the major or West Point offers but rather it is fostered by the study of Sociology itself. It was so encouraging to see the Sociology community critique, mold, challenge, and raise each other.”

—Sociology Major

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**Definitely take it. It is fun, interesting... Most importantly relevant... we get the opportunity to talk real Army stuff in a relaxed classroom environment. And when I say Army stuff, I don’t mean tactics... I mean stuff like marriage, family, race, gender etc. Stuff we will definitely deal with.**
Why Study Diversity & Inclusion?
The Diversity and Inclusion Studies Minor (DISM) exposes cadets to varied perspectives and methodologies for understanding and studying people. Moreover, the DISM at West Point offers cadets a framework for critically and creatively thinking about the broader impact of diversity and inclusion at the individual, organizational, societal, and global levels. It also provides our cadets opportunities to pursue diversity and inclusion in intra-, multi-, and inter-disciplinary ways.

What Will I Learn?
• Understand a broad range of methodologies for and theories of the critical study of diversity and inclusion, including its changing permutations in varied historical and social contexts.
• Develop an understanding of difference and empathy for others.
• Conduct directed research pertinent to the core theoretical, legal, literary, geographical, historical, social, psychological, environmental, and/or policy topics related to diversity and inclusion.
• Identify and critically assess explanations for construction of specific categories/groups such as sex/gender; race/ethnicity/nation; socio-economic class; religious affiliation; age; (dis)ability; sexual orientation; and cultures. Critically analyze the relation between constructed groups and access to power.
• Describe the various ways in which different types of social actors have experienced diversity and inclusion over the course of history; explain and critically analyze the causes of their successes and failures.

What Do We Know?
The ability to lead in today’s Army requires an understanding of the diverse nature of American and coalition soldiers and civilians as well as the complexity of issues associated with different groups, races, ethnicities, cultures, religions, and social classes, among many other demographic factors associated with diversity. West Point graduates must be well-prepared as possible to lead diverse teams and tackle complex problems.
Department of Behavioral Sciences & Leadership
Minor in Diversity & Inclusion Studies

**Essential Courses**

(Choose 2 of 3)

PL377: Social Inequality
SS392: The Politics of Race, Gender & Sex
EN352: Power and Difference

(Choose 1 of 4)

HI461: Sex & Civilization
HI463: Race, Ethnicity, Nation
HI391: World Religions
HI398: Society and Culture in American History

**Elective Courses**

2 of 42 Free Electives from DISM-designated courses in Sociology, History, English, Philosophy, Psychology, Geography, Law, Foreign Languages, and Social Sciences. including PL350: Military Leadership which would also count to-wards your PL300 requirement. Inclusive leaders effectively lead diverse teams by creating an environment where all members of the team feel respected for who they are, and know their lived experiences and contributions are valued.

Building Strong Leaders

http://www.usma.edu/bsl
Chemistry & Life Sciences (CLS)
Chemistry is the branch of sciences that studies the composition, structure, properties, changes and interactions of matter. Therefore, it is truly the central science and underpins much of the efforts of scientists and engineers to improve life for humankind.

**Chemistry Program Goals**

- Use information resources to gather, organize, and understand scientific material.
- Design and execute experiments to address a problem or question.
- Analyze and assess scientific data gathered in the laboratory.
- Effectively and clearly communicate scientific information in written and oral form to a variety of audiences.
- Understand the applications of chemistry in the Army and society.
- Recognize relationships between the properties of a substance, its molecular structure, and its reactivity.
- Understand and apply the physical concepts of chemistry.

**ACS Certified Degree Program**

The Chemistry Major provides an opportunity to earn an American Chemical Society (ACS) Certified Degree in addition to the baseline major. In order to receive an ACS Certified Degree, a Cadet must complete the 11 baseline Chemistry Major courses and a minimum of 4.5 credit hours of individual research in any combination of the research courses.

**Honors Program**

The Chemistry Major also offers an Honors Program in addition to the baseline and ACS Certified Degree. To receive a Chemistry Major with Honors degree, a Cadet must complete the ACS Certified Degree requirements and:

- CH489 and CH490 (Individual Research I and II)
- Attain a QPA ≥ 3.0 in the 26 core academic program courses and 3-course engineering sequence
- Attain a QPA > 3.5 in the 13 chemistry program courses
AIAD Opportunities
The Advanced Individual Academic Development (AIAD) program allows Cadets to participate in a variety of summer enrichment opportunities that broaden their academic experience. The following are examples of organizations that support AIAD opportunities:
- Army Research Laboratory, Aberdeen Proving Ground and Adelphi, MD
- Edgewood Chemical and Biological Center, MD
- Picatinny Arsenal, NJ
- Walter Reed Army Medical Center, MD
- The Mint, West Point, NY
- U.S. Department of Agriculture, Washington, D.C.

Required Courses

**CH371 Introduction to Analytical Chemistry:**
The course provides an overview of contemporary analytical techniques with a focus on fundamental concepts. Topics include complexometric titration, acid-base equilibria, separations, redox potentials, electrochemistry, and spectroscopy.

**CH383/384 Organic Chemistry:**
These courses focus on the relationship between chemical structure and the physical and chemical properties of molecules, to include relationships between free energy changes and equilibria, and between activation energy and rate of reaction. Reaction mechanisms and relationships between mechanisms, least energy path, intermediates, and transition states are also explored.

**CH471 Polymer Chemistry:**
This course is an introduction to macromolecules and their properties. Topics include morphology, methods of polymerization and copolymerization, characterization, and testing.

**CH472 Inorganic Chemistry:**
This course provides an in-depth study of main group and transition metal elements and their compounds, to include an emphasis on chemical bonding, and atomic and molecular structures that allow for a breadth of applications.

**CH473 Biochemistry:**
This course focuses on biochemical systems at the molecular level with emphasis on structure-function relationships, metabolism, and regulation of systems and processes.

**CH474 Instrumental Methods of Analysis:**
This is a laboratory-based course designed to develop theoretical understanding and proficiency in the selection and use of modern instrumental methods of chemical analysis.

**CH481 Physical Chemistry I:**
This course focuses on chemical thermodynamics with emphasis on chemical equilibrium, chemical kinetics, and intermolecular interactions. Topics include properties of real gases, kinetic theory of gases, laws of thermodynamics, diffusion, rates of reactions, and molecular reaction dynamics.

**CH482 Physical Chemistry II:**
This course builds on the concepts covered in CH481 through a study of the quantum mechanics of atoms and molecules, their interaction with radiation, and statistical thermodynamics.

**CH487 Advanced Chemistry Laboratory:**
This is an integrative laboratory experience in which students will further develop their knowledge and understanding of organic and inorganic syntheses, quantitative and qualitative instrumental analyses, and applications of physical chemistry principles pertaining to molecular structure and kinetics. Students will develop and conduct independent projects that involve synthesis and characterization techniques based on their collective classroom and laboratory experiences. Students will present the outcome of their studies in a scientific presentation.
Life Scientists study the structure and processes of living organisms through unifying principles of: cell theory, evolution, genetics, and homeostasis.

**Military Applications of Life Science.** The most important “system” in the Army is the human Soldier. Because the Soldier is a biological system, life science, biotechnology, and medicine offer unique potential for enhancing the performance of this most complex, critical, and costly of the Army’s systems.

**Careers in Life Science.** We are a group who solve complex, often ill-defined, problems. Whether you are primarily interested in a career in medicine, research, or leadership within the Army, our majors do all of these. There are multiple opportunities available within many branches for life scientists to apply technical expertise.

**Teaching Through Research.** We offer research experiences in multiple science disciplines based on the expertise of our civilian and military faculty. These courses can begin as early as plebe year and continue each semester.

**Success of our Life Scientists.** Our cadets have proven success with National Scholarships, Fellowships, and Medical School Admission. We commission Leaders who serve at all echelons of the Army.
**Medical School**

Our cadets are very successful in applying for medical school. Whether your pursue a career in medicine or expand on concepts within the discipline as a future Army Officer, the embedded coursework will meet all medical school pre-requisites and provide training in the development of skill sets which can be applied at either destination. We welcome those eager to learn critical analysis skill and who enjoy solving problems.

**AIADs**

We offer Individual Academic Development opportunities across the world. Whether you desire research experience with National Laboratories, DoD research facilities, Physician Shadowing, or Coalition Partners, we have a variety of experiences.

**Research**

We build upon a diverse set of faculty expertise to offer options across the molecular, biomechanical, and cellular perspectives, to name a few. Cadets engage in hands-on applications of cutting edge science and have a proven record in national presentations and publications. Contact us to learn more about your options.

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**Life Science**

For more information visit the USMA CLS page:
https://collab.westpoint.edu/chem/default.aspx

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**Curriculum.** A Life Science Major must complete 40 courses: 27 core courses, including an engineering sequence, and 11 life science courses (9 required + 2 electives).

**Independent Research.** These immersive experiences, as early as plebe year, partner cadets with faculty to engage in contemporary applications of course content.

**Required Courses (9):**
- CH375 Advanced Biology
- CH383 Organic Chemistry I
- CH384 Organic Chemistry II
- CH385 Introduction to Cell Biology
- CH387 Human Physiology
- CH388 Genetics
- CH457 Microbiology
- CH473 Biochemistry
- CH479 Biotechnology

**Electives (2):**
- CH362 Mass and Energy Balances
- CH364 Chemical Reaction Engineering
- CH399 Special Topics in Life Science
- CH376 Microscopy (Fall)
- CH486 Neurobiology (Fall)
- CH460 Human Anatomy (Spring)
- CH499 Special Topics in Life Science

**Research (optional):**
- CH289/290; CH389/390; CH489/490

For research information visit the Center for Molecular Science:
Chemical engineers deal with the behavior of chemicals and energy. They design, operate, maintain, and troubleshoot processes that convert raw materials into useful products, or that convert one type of chemical product into another. Chemical engineers employ mathematics, chemistry, physics, biology, and engineering knowledge to solve technical problems.

Chemical engineers are responsible for design and control of large-scale chemical manufacturing plants for the production of basic chemicals, plastics, and fibers. Chemical engineers are also involved in many other diverse, but related, areas. Examples include (but are not limited to) food and fertilizer production, synthesis of electronic materials (polymers, ceramics, and semiconductors, for example), as well as biochemicals and pharmaceuticals. A technical degree in chemical engineering, along with the leadership skills you acquire as a military officer will lead you to become highly marketable after your military career.

Our goal is to develop cadets with a firm foundation in the fundamentals of engineering, physical sciences, investigative techniques, and problem solving skills. We achieve this goal through a rigorous academic program, small classes, and a robust laboratory program. Typical classes will generally have 8-16 cadets, always emphasize cadet preparation, and focus on problem solving.

The department has fully-supported modern computational tools and analytical instruments dedicated to cadet research. Cadets may pursue summer AIAD opportunities at various DoD and governmental laboratories. Cadets can also join our very active student chapter of the America Institute of Chemical Engineers (AIChE).
Choose 3 Electives!

**Materials Engineering**
- MC364 Mechanics of Materials
- MC380 Engineering Materials
- Open Engineering Elective

**Industrial Engineering**
- SE301 Fnds of Eng. Design & Sys Mngmnt
- EM411 Project Management
- EM420 Production Ops Mngmnt

**Decision Analysis**
- SE301 Foundations of Eng. Design & Systems Management
- EM481 Systems Simulation
- SM484 System Dynamic Sim

**Advanced Control Systems**
- EE360 Digital Computer Logic
- SM484 System Dynamic Sim
- XE475 Mechatronics

**Energy Conversion Systems**
- EE377 Electrical Power Gen
- ME472 Energy Conversion Sys
- ME480 Heat Transfer

**Power Systems**
- MC306 Dynamics
- ME491 Mechanical Power Plants
- EE377 Electrical Power Gen

**Nuclear Energy**
- NE300 Fund of Nuclear Engr
- NE350 Radiological Engr Design
- NE450 Nuclear Weapons Effects

Other engineering electives possible with the approval of the program director.

Chemical Engineering

For more information visit the USMA Chemical Engineering website: [https://collab.westpoint.edu/chem/CHENG/MainPage/ChEng.html](https://collab.westpoint.edu/chem/CHENG/MainPage/ChEng.html)

**15 Required Courses**

**Mass and Energy Balances (CH362):**
Introduction to chemical engineering calculations.

**Vector Calculus and Introduction to Partial Differential Equations (MA366):**
Mathematical techniques for the study of chemical engineering electives.

**Organic Chemistry I (CH383):**
Introduction to reaction mechanisms and structure-function relationships in organic molecules.

**Fundamentals of Electrical Engineering (EE301):**
Introduces electrical circuit theory and analysis.

**Thermal-Fluid Systems I and II (MC311 & MC312):**
Integrated study of thermodynamics and fluid systems.

**Chemical Reaction Engineering (CH364):**
Teaches selection, design, and operation of chemical reactors.

**Introduction to Automatic Process Control (CH367):**
Introduction to dynamic modeling and control of engineering linear systems.

**Fundamentals of Engineering Mechanics and Design (MC300):**
Study of engineering structures such as trusses, frames, and vessels.

**Chemical Engineering Thermodynamics (CH365):**
Expands on the specific thermodynamic properties of chemical reactions.

**Chemical Engineering Laboratory (CH459):**
Provides laboratory experience in operating large chemical processes.

**Heat and Mass Transfer (CH485):**
Introduces the mathematical modeling of heat and mass movement.

**Chemical Engineering Process Design (CH402):**
Introduction to the concept of chemical processes and design.

**Chemical Engineering Seminar (CH400):**
Helps cadets prepare for the FE Exam and the practice of chemical engineering.

The Fundamentals of Engineering Exam (FEE) is a program requirement for all Chemical Engineering majors.

AIAD Opportunities

- Bio-electrochemical and Systems Biology Research at ARL
- Synthetic Biomaterials Research at ARL
- Check on Hopper 2: Color Check Process Development Uniformed Color Company
- Chemical Process Engineering in Polymer Science - Southern Polymer
- Technology and Automation in Support of Sales at Southern Polymer
- Biosensor Development with USCOE
- Waste to Energy – Rotary Kiln Gas Technology
- Improvised Armaments
- Development of Flame Retardant Compounds UL 5V
- Value Stream Management – Arden Processes
- Renewable Energy Group Heating Oil Project
- Renewable Energy Group CEO Shadow/Aide de Camp
- Evaluation of FEM HMX in LX-14 Explosive Composition
- PEO AMMO - Ammunition Facility Production Modernization
- Energy Industry Ops, Bernt GmbH

CH290/389/390/489/490
Research courses available with advisor approval.
Civil & Mechanical Engineering (CME)
WHAT IS CIVIL ENGINEERING?
Civil Engineering is one of the oldest professions. Civil Engineers design, construct, and maintain the critical infrastructure of modern life: roads, bridges, buildings, tunnels, dams, water treatment systems, waste treatment systems, railroads, airports, docks, harbors, irrigation projects, canals, and offshore structures are examples of civil engineering "products."

Civil Engineers work for private firms and public agencies, teach at universities, and conduct research in laboratories — yet the goal is the same: to provide safe, serviceable, efficient structures and facilities for society. Along the way, Civil Engineers meet the sustainability challenges of pollution, deteriorating facilities, traffic congestion, energy needs, floods, earthquakes, urban development, environmental preservation, and community planning.

Civil Engineers also become the executives of firms and organizations responsible for the nation's infrastructure and engineering modernization. As such, they are leaders and managers with expertise in the technology field they manage, a key difference often noted in some businesses, industries, and government enterprises.

Civil Engineers belong to a profession as old as civilization, yet they employ skills ranging from practical, common sense problem solving to the most current techniques of computer analysis and scientific application. Civil construction materials include rock and soil found on site, traditional wood and masonry, modern metal alloys, concrete, composites, and plastics.

Civil Engineers need a broad educational base in the physical and social sciences as well as highly developed scientific and practical engineering skills. The field embraces seven primary sub-disciplines, which are typically introduced at the undergraduate level and may be pursued in greater depth in graduate school:

- Structural Engineering
- Geotechnical Engineering
- Hydraulic/Water Resources Engineering
- Environmental Engineering
- Construction Engineering
- Infrastructure Engineering
- Transportation Engineering

Studying Civil Engineering is excellent preparation for service in any branch of the Army and the best path for those interested in branching Engineers. Engineer officer assignments require expertise in combat engineering, facilities engineering, and construction management. A typical career begins with duty as an engineer platoon leader, provides opportunities for advanced civil and military schooling, and proceeds to higher levels of responsibility. Positions include command of engineer units from company to brigade level, staff duty at all levels of the Army, instructing at USMA or other schools, command of a USACE Engineer District, and many other possibilities!!!
Join the Mechanical Engineering Team
Design devices and systems to improve people’s lives

Expansive Curriculum!!!
Choose the combination of electives that is right for YOU!!
- Build your depth of knowledge in a topic, or…
- Benefit from our breadth of mechanical engineering offerings!

“Mix & Match” from the following topics:

Aeronautical
Learn the science and theory behind aircraft flight. Reinforce in-class lessons with Flight Labs in Army Aircraft

Automotive
Design, build, and test cars, trucks, tanks and UGVs. Gain an in-depth knowledge of automotive power and transmission systems.

Biomechanics
Explore the interactions between the human body and mechanical systems. Learn how these systems can be used to better serve humanity.

Engineering Management
Lead the development and implementation of major engineering projects. Learn resource, personnel, and schedule management.

Power & Energy
Understand power production, conversion, and storage. Develop sustainable energy systems.

Mechatronics
Study real-world control of robots, unmanned aerial vehicles, and other autonomous systems.

Core Mechanical Engineering Courses
- Introduction to Mech Engineering
- Fundamentals of Engineering mechanics & Design
- Mechanics of Materials
- Engineering Mathematics
- Dynamics
- Thermal-Fluid Systems I & II
- Computer-Aided Design
- Engineering Materials
- Manufacturing and Machine Component Design
- Mechanical Engineering Design
- Heat Transfer
- Mechanical System Design
- Fundamentals of Electrical Engineering
- Vibration Engineering OR Dynamic Modeling and Control
- Three Elective Courses

For more information about ME programs, e-mail richard.melnyk@usma.edu or go to http://www-internal.dean.usma.edu/departments/cme/index.htm
Like us on Facebook: West Point Civil and Mechanical Engineering
Capstone projects are the culmination of the Mechanical Engineering experience! Cadets design, model, build, and test their own products. Recurring projects include the numerous UAS designs, weapon modifications, and Soldier Design challenge!
Electrical Engineering & Computer Science (EECS)
The impact of the electronics revolution on our daily lives may exceed that of the industrial revolution. The advent of the integrated circuit and the microprocessor have made possible phenomenal advances in such varied fields as medicine, communications, manufacturing, computation, education, energy conversion, and weapons systems. Electrical engineers are at the forefront of this revolution, using the principles of physics, mathematics and the engineering sciences to develop new and innovative applications of electronics. Regardless of branch, officers will surely be involved with electronic systems in military hardware. The courses in the electrical engineering curriculum are directly applicable to the Army you will lead. As a student of electrical engineering you will develop a mastery of the fundamental elements of circuit theory, electromagnetic fields and waves, electronics, digital computer logic and electromechanical energy conversion. You will then study in greater depth subjects selected from the areas of robotics, communications, opto-electronics, alternative energy and cyber engineering. The program emphasizes practical design, hands-on laboratory and computer experience, teamwork, and interdisciplinary projects.

The program additionally provides a sound basis for graduate schooling in electrical engineering and related fields as well as fulfilling the disciplinary depth component of the USMA curriculum. The Electrical Engineering Program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

For more information contact: Dr. Peter Hanlon, Peter.Hanlon@usma.edu
2022 Electrical Engineering Major

**Core**
- MA 103 Modeling 4.5
- MA 104 Calc 1 4.5
- EN 101 Comp. 3.0
- EN 102 Literature 3.0
- CH 101 Chem 1 4.0
- IT105 Intro to IT 3.0
- HI xxx Am Hist 3.0
- HI yyy Reg Hist 3.0
- LX 203 Lang. 1 4.0
- PY 201 Philos. 3.0

**EE Core**
- MA 205 Calc. 2 4.0
- EE 281 Elec Logic 3.5
- PH 205 Physics 1 4.0
- MA 206 Phys. 2 4.0
- SS 201 Econ. 3.0
- SS 202 Amer. Pol 3.0
- LX 204 Lang. 2 4.0
- LX 204 Lang. 2 4.0
- SS 307 Intronl Rel. 3.0
- PL 300 Leadership 3.0
- MX 400 Officership 3.0

**Elective**
- EE 200 Dig Logic 3.5
- MA 206 Phys. 2 4.0
- SS 201 Econ. 3.0
- SS 202 Amer. Pol 3.0
- LX 204 Lang. 2 4.0
- SS 307 Intronl Rel. 3.0
- PL 300 Leadership 3.0
- MX 400 Officership 3.0
- HI 302 Mil. Art 3.0

**Engineering Breadth**
- EE 302 Intr to EE 3.5
- MA 364 Eng. Math 3.0
- EV 203 Terr. Anal. 3.0
- CH 101 Chem 1 4.0
- IT105 Intro to IT 3.0
- HI xxx Am Hist 3.0
- HI yyy Reg Hist 3.0
- LX 203 Lang. 1 4.0
- PY 201 Philos. 3.0

**Depth Options**

**Alternative Energy**
- XE 472 Controls
- XE 472 Alt Energy
- XE 486 Solid State
- EE 477 Dig Com
- EE 480 Fiber
- EE 482 Wireless
- EE 477 Dig Com

**Communications**
- CY 300 Prog Fund
- CY 350 Net Eng Mgt
- CY 450 Cyber Sec.
- EE 477 Dig Com

**Cyber Engineering**
- EE 486 Solid State
- EE 480 Fiber
- EE 483 Photonics
- EE 477 Dig Com

**Opto Electronics**
- EE 486 Solid State
- EE 480 Fiber
- EE 483 Photonics
- EE 442 Alt Energy

**Robotics**
- EE 477 Dig Com

**EE Major**
- 41 courses
- ABET accredited
- Benchmarked

**EE Honors Major**
- 42 courses
- Minimum GPA
  - 3.0 in Core
  - 3.5 in Major
- Research or engineering paper suitable for publication

**EE Depth and/or Elective**
- XE 442 Alt Energy
- EE 480 Fiber
- XE 472 Controls
- XE 475 Mechatronics
- EE 482 Wireless
- EE 483 Photonics
- EE 485 Spec Topics
- EE 486 Solid State
- EE 477 Dig Comm Sys
- EE 487 Embed Sys
- EE 489 Indiv Study
- CS 393 Databases
- XE 492 Disrpt Tech
Computer Science Major

Study the theoretical and practical principles of computer programming and computer systems.

Three threads, taken together....

Programming & software design
- CS301 Foundations of CS
- CS384 Data Structures
- CS478 Programming Languages
- CS403 Testing & Development

Theoretical foundations
- MA372 Discrete Math
- CS474 Computer Theory
- CS385 Algorithms
- Math Elective

Systems fundamentals
- IT305 Military Apps
- EE360 Digital Logic
- CS380 Computer Organization
- CS484/IT350 Networking
- CS481 Operating Systems

Applications of computing
- XE401 Integrative Systems Design I
- XE402 Integrative Systems Design II
- CS400 Professional Considerations
- 2 CS electives

Choices include:
- Artificial Intelligence
- Graphics
- Android Programming
- Digital Forensics
- Cyber Security Engineering
- Database Systems
- Embedded System Development
- User Interface Development
- Disruptive Innovations
- CS Independent Study

Computer Science is a 41 course major, with 18 courses being CS-related. Curriculum is designed to remain relevant long after graduation. The major includes the Cyber Engineering Sequence, and starting with CL '20, Y305. Double majors and Semester Abroad Programs can be possible.

CS majors complete many projects and have exciting opportunities with AIADs, cadet clubs and other activities. The year-long capstone design project, culminating on Projects Day, is one exciting experience all CS majors undertake. CS cadets work in teams of 4-7 that include cadets in other majors.

The CS Honors major is very achievable by high-performing cadets (>3.5 in-major and 3.0 in Core courses), requiring only 1 extra course and a small Honors project. Most class year groups in recent memory have cadets publishing academic research and successfully competing for scholarships.

For more information about the CS Major, talk to anyone in EECS or contact LTC Chewar (christa.chewar@usma.edu)
Why Computer Science?

Channel true creativity.
Designing high-quality computing solutions is a highly creative activity. Support creative work in many other fields. The best solutions in computing exhibit high levels of elegance and beauty.

Master complexity.
Build on mathematical foundations, to learn how to design efficient algorithms and determine kinds of problems solvable by computers. Solve deep, multi-dimensional problems that require imagination and interdisciplinary teams.

Blend with other disciplines.
A CS major will provide you with a foundation of knowledge, problem solving and logical thinking that will serve as a competitive advantage to you in your career, in whatever field you choose.

Learn attack and defense, then compete to win.
Hone cyber-related skills by learning networking and operating systems, reverse engineering, security, and digital forensics. Participate on the Competitive Cyber Team and win the Cyber Defense Exercise.

Learn some Greek.
For all $p, q \in Q$, all $Z \in \Gamma$, all $k \geq 1$, and all $w \in \Sigma^*$,

$[p, Z, q] \xrightarrow{1^k} w$

iff $(p, w, Z) \vdash^+ (q, \epsilon, \epsilon)$

Impress everyone you know with notes from Computer Theory.

Cool technologies are part of the job.
Wouldn’t it be neat if you were actually completing classwork while gaming, working with graphics, virtual reality, robotics, social media, and mobile platforms, or hacking apps, and things like that?

Be impactful on a team or individually.
Computing is often about being part of a team that requires people with many different kinds of skills. Yet there is also plenty of space for individual flair and imagination.

Learn attack and defense, then compete to win.
Hone cyber-related skills by learning networking and operating systems, reverse engineering, security, and digital forensics. Participate on the Competitive Cyber Team and win the Cyber Defense Exercise.

Be part of EECS—an awesome community!
It’s hard to imagine a more supportive faculty to help you on your journey. We’re basically a fun-loving bunch of geeks who are really eager to work with the next generation of technologists.

Amazing AIAD experiences.

Be impactful on a team or individually.
Computing is often about being part of a team that requires people with many different kinds of skills. Yet there is also plenty of space for individual flair and imagination.

Learn attack and defense, then compete to win.
Hone cyber-related skills by learning networking and operating systems, reverse engineering, security, and digital forensics. Participate on the Competitive Cyber Team and win the Cyber Defense Exercise.

So many lucrative career options.
Computing jobs are among the highest paid and job satisfaction. With more jobs than qualified people to fill them in the US, the projected growth rate is between 12% and 37% through 2022.
Cyber Operations

The Cyber Operations concentration focuses on the low-level technical skills that enable offensive and defensive cyberspace operations.

42 total courses, including:
- Digital forensics
- Computer networks
- Cyber policy, strategy, & operations
- Cyber algorithmic foundations
- Software testing & development
- Data structures
- Operating systems
- Embedded systems development
- Cryptography

This concentration most closely satisfies the requirements for earning the NSA/DHS CAE-CO certificate.

Cyber-Physical Systems

The Cyber-Physical Systems concentration provides a unique blend of depth in both hardware and software to exploit networked, physical systems that are controlled by algorithms.

42 total courses, including:
- Dynamic modeling and control
- Intro to electrical engineering
- Calculus 2
- Cyber humanities elective
- Data structures
- Software testing & development
- Operating systems
- Embedded systems development
- Cryptography

Cybersecurity

The Cybersecurity concentration focuses on the interdisciplinary study of people, processes, and technology to assure operations in the face of cyberspace risks.

41 total courses, including:
- Organizational security
- Cyber law
- Cyber ethics
- Cyber intel history
- Cyber elective
- Network systems programming
- Cloud computing
- Secure interface design
- Cyber policy, strategy, & operations

Machine Learning

The Machine Learning concentration prepares cadets to gain insight using algorithmic tools that exploit large datasets and the Internet of Things.

42 total courses, including:
- Artificial intelligence
- Applied statistics
- Data science
- Data structures
- Software testing & development
- Operating systems
- Embedded systems development
- Cryptography

Network Services

The Network Services concentration focuses on building and securing the networks and services fundamental to operating in Cyberspace.

41 total courses, including:
- Database systems
- Computer networks
- Network services management
- Network systems programming
- Cloud computing
- Secure interface design
- Cyber policy, strategy, & operations

Choose your own adventure!

1 major
5 concentrations
Cyber Science Foundation Courses
(Choose 10 of 10)
- CY300 PROGRAMMING FUNDAMENTALS
- CY355 CYBER FOUNDATIONS – COMPUTING
- CY350 NETWORK ENGR & MGT
- CY450 CYBER SECURITY ENGINEERING
- CS380 COMPUTER ORGANIZATION
- CS400 CS PROFESSIONAL CONSIDERATIONS
- XE401 INTEGRATIVE SYSTEM DESIGN I
- XE402 INTEGRATIVE SYSTEM DESIGN II
- EE360 DIGITAL LOGIC W/ EMBED SYS
- MA372 INTRODUCTION TO DISCRETE MATH

AND

Information Technology Lens
(Choose 4 of 4)
- CY383 SECURE INTERFACE DESIGN
- CY384 NETWORK SYS PROG
- CY394 CLOUD COMPUTING
- CY460 CYBER POLICY, STRATEGY & OPNS

AND

Concentration

Cybersecurity Concentration
(Choose 1 of 1)
- CY465 ORGANIZATIONAL SECURITY

AND

People, Policy, and Laws Electives
(Choose 2 of 3)
- LW462 CYBER LAW
- PY326 CYBER ETHICS
- XH341 INTEL CYBER HISTORY

AND Cyber Elective
(Choose 1 of 9)
- MA394 NETWORK SCIENCE
- MA464 APPLIED ALGEBRA W/ CRYPTOLOGY
- LW462 CYBER LAW
- PY326 CYBER ETHICS
- XH341 INTEL CYBER HISTORY

Total courses: 41

Network Services Concentration
(Choose 3 of 3)
- CS393 DATABASE SYSTEMS
- CS484 COMPUTER NETWORKS
- CY392 NETWORK SERVICES MGT

AND Cyber Elective
(Choose 1 of 5)
- MA394 NETWORK SCIENCE
- MA464 APPLIED ALGEBRA W/ CRYPTOLOGY
- LW462 CYBER LAW
- PY326 CYBER ETHICS
- XH341 INTEL CYBER HISTORY

Total courses: 42

Cyber Operations Concentration
(Choose 4 of 4)
- CS483 DIGITAL FORENSICS
- CS484 COMPUTER NETWORKS
- CY460 CYBER POLICY, STRATEGY & OPNS
- CY385 CYBER ALGORITHMIC FOUNDATIONS

AND Cyber Elective
(Choose 1 of 6)
- MA376 APPLIED STATISTICS
- MA477 THEORY & APPLICATN OF DATA SCIENCE
- CY385 CYBER ALGORITHMIC FOUNDATIONS
- CY460 CYBER POLICY, STRATEGY & OPNS
- CY465 ORGANIZATIONAL SECURITY
- LW462 CYBER LAW
- PY326 CYBER ETHICS
- XH341 INTEL CYBER HISTORY

Total courses: 42

Machine Learning Concentration
(Choose 3 of 3)
- CS486 ARTIFICIAL INTELLIGENCE
- MA376 APPLIED STATISTICS
- MA477 THEORY & APPLICATN OF DATA SCIENCE

AND Cyber Elective
(Choose 1 of 6)
- CY385 CYBER ALGORITHMIC FOUNDATIONS
- CY460 CYBER POLICY, STRATEGY & OPNS
- CY465 ORGANIZATIONAL SECURITY
- LW462 CYBER LAW
- PY326 CYBER ETHICS
- XH341 INTEL CYBER HISTORY

Total courses: 42

Cyber-Physical Systems Concentration
(Choose 3 of 3)
- EE302 INTRO TO ELEC ENGR
- XE472 DYNAMIC MODELING AND CONTROL
- MA205 CALCULUS II

AND Cyber Elective
(Choose 1 of 7)
- CY385 CYBER ALGORITHMIC FOUNDATIONS
- CY460 CYBER POLICY, STRATEGY & OPNS
- CY465 ORGANIZATIONAL SECURITY
- LW462 CYBER LAW
- PY326 CYBER ETHICS
- XE475 MECHATRONICS
- XH341 INTEL CYBER HISTORY

Total courses: 42

CS/Computer Engineering Lens
(Choose 5 of 5)
- CS384 DATA STRUCTURES
- CS403 SOFTWARE TESTING & DVLP
- CS481 OPERATING SYSTEMS
- EE487 EMBEDDED SYSTEMS DVLP
- MA464 APPLIED ALGEBRA W/ CRYPTOLOGY

AND

Concentration

Disciplinary Lens

Choose 1 of 3

Choose 1 of 2

Total courses: 41

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Total courses: 42

Total courses: 42
### CYM0 - Cyber Science: Machine Learning

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### CYN0 - Cyber Science: Network Services

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### CYE0 - Cyber Science: Cyber Operations

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For more information about the Cyber Science Major, contact LTC Morrell (chris.morrell@westpoint.edu)
English & Philosophy (DEP)
The Major in English

United States Military Academy
West Point, New York

"My time at Duke [studying literature] was an intellectual oasis after a long march. It allowed me time to broaden my perspective from the confines of military life and open it to another world, full of new ideas, viewpoints, issues and stories which helped me develop."

GEN(Ret) Martin Dempsey, '74, former Chairman of the Joint Chiefs of Staff and former faculty member in the Department of English and Philosophy

Visit us online at:
http://www.usma.edu/dep/SitePages/default.aspx

Or on Facebook: Department-of-English-and-Philosophy-USMA

Why Major in English?

With a true appreciation of our diverse world, English majors are prepared to negotiate the problems facing twenty-first-century leaders. The study of literature moves beyond simple awareness of other perspectives and equips students with The skills they need to engage with other cultures. The resulting understanding of Humanity and culture is a vital contributor to success in the military profession. The study of literature fosters essential leadership skills including critical thought, clear and persuasive communication, creativity, and ethical awareness. By engaging with the diversity that characterizes the human condition, English majors are ready to solve problems creatively and also to communicate their ideas and solutions clearly and persuasively — talents essential to a meaningful life of service.

Literature Matters.

From issues of civic responsibility to the lasting impact of colonial rule to current race relations, the range of topics in English is boundless. Armed with a Variety of critical lenses through which to examine literature, English majors not only solve problems but do so creatively. Not only do majors gain an ability to interpret a variety of texts, but they engage with vital cultural, sociological, and political issues represented in literature.

See culture manifested in both narratives and books themselves.

Examine communication at the national and strategic level.

English majors read narratives in a variety of ways, including in virtual reality.

Experience Shakespeare’s plays at the Globe Theater.
The English Community at West Point

- Zengerle Family Lecture in the Arts and Humanities
- Creative Arts Project
- Partnership with Hudson Valley Shakespeare Company
- Evening Drama Performances
- AIADs (various global locations and themes)
- Circle in the Spiral (Cadet Creative Writing Publication)
- Undergraduate Conferences
- West Point Writing Center Fellows Program
- African American Arts Forum
- Creative Writing Forum
- Elsie Sannes-Pinnell Art Appreciation Forum
- Trip Sections to NYC (Libraries, Theaters, etc)
- Works in Progress Colloquium
- Social Events for English Majors and Faculty

Our English Faculty have studied at:

- The University of Pennsylvania
- Stanford
- Oxford University
- The University of Washington
- Columbia
- The University of Texas
- Harvard
- The University of Edinburgh
- Notre Dame
- Loyola
- The University of Colorado
- Yale
- The University of Michigan
- NYU
- The University of Tennessee
- The University of Virginia

Ellen Chamberlain '14 presents her scholarly research:

"It is to the skills and lessons I acquired in the study of art, philosophy, and literature that I turned most frequently and used each and every day to understand, to communicate, to educate, and to motivate others in helping me accomplish my military responsibilities."

GEN(Ret) Eric Shinseki, '65, former Chief of Staff of the Army and former faculty member of the Department of English and Philosophy.

A Sample of Course Offerings

- Ancient to Early Modern Literature
- Contemporary Literature
- Literary Methodologies
- Film and Film Theory
- American Literature I and II
- British Literature I and II
- World Literature
- War Literature
- Romanticism
- Violence and Irish Literature
- Literature and the Great War
- The Novel
- Power and Difference
- Criticism
- Shakespeare
- Drama
- Poetry
- Senior Seminar
- Senior Thesis I and II
Why Major in Philosophy?

Philosophy builds conceptual skills you will need as an officer in any branch of the Army and as an educated professional throughout your life – skills essential to leadership. Philosophy demands clarity, objectivity, sound reasoning, good writing, and a sense of fairness. It is the native home of Critical Thinking. Philosophy promotes:

Ethical Reflection

Philosophy gives the future officer a rational framework for understanding the ethical principles behind duty and right conduct and for resolving tensions between them.

Cultural Awareness

The mind and values of distant cultures reveal the universal character of humanity: ancient Greece and Rome (pursuit of the good life); the Far East (the goal of inner happiness); early Modern Europe (science in conflict with religion). Logic reveals rules which lie at the heart of reason itself.

Education for Now and for Life

Philosophical enquiry helps define a university education. Philosophy enlarges the self. The questions are fundamental, intriguing, compelling, and enduring: Can we prove the existence of God? What is the place of mind in the physical world? Is human freedom compatible with the necessity of scientific laws? What does it mean that people are “created equal”? Philosophy is not a body of facts; it is the spirit of investigating facts.

"It is to the skills and lessons I acquired in the study of art, philosophy, and literature that I turned most frequently and used each and every day to understand, to communicate, to educate, and to motivate others in helping me accomplish my military responsibilities."

GEN(Ret) Eric Shinseki, ‘65, former Chief of Staff of the Army and former faculty member of the Department of English and Philosophy.

"Studying philosophy has broadened my perspective and provided me the necessary tools to effectively build consensus with host-nation leaders, locals, and both national and international partners. It has made me a far more reflective-thinker; I better examine problems, analyze critical information, and articulate arguments that compel action. Philosophy develops many of the competencies and attributes necessary to excel in the Army and on the battlefield."

- Major Tim Leone ‘03

Visit us online at: http://www.usma.edu/dep/SitePages/default.aspx

Or on Facebook: Department-of-English-and-Philosophy-USMA

Cadets at "Selection Square" in Krakow, Poland, contemplate the moral depravity of liquidating the Krakow ghetto. At this site, Nazi soldiers forced men onto trains to Auschwitz and murdered 16,000 women and children.
The Philosophy Community at West Point

Philosophy Forum
Guest lectures and activities for Philosophy majors and all cadets interested in Philosophy

Ethics Debate Team
Regional and national competitions

Mid-Hudson Philosophy Society
Annual conference of faculty and Philosophy majors from five neighboring colleges

Ethics of War Annual Conference
Partnership with Villanova University involving invited speakers and student presentations

Carnegie Council for Ethics in International Affairs
Panel discussions on global issues of moral, legal and political significance

Army Cyber Institute
Lectures on topics related to Cyber Ethics

Undergraduate Conferences and Journals
Opportunities for cadets to present, defend, and publish their own work

What You Can Study

Aristotle and Plato
Contemporary Philosophy
Cyber Ethics
Descartes and Locke
Eastern Thought
Kant
Logic
Military Ethics
Philosophy of Mind
Philosophy of Religion
Philosophy of Science
Political Philosophy
Theory of Knowledge

Questions?

CDT Sam Kolling '16 is addressing faculty and students at the 2014 Mid-Hudson Philosophy Society

Our Philosophy Faculty have studied at:

Stanford
Oxford University
Rutgers University
Columbia
The University of Michigan
Harvard
The University of Texas
The University of Edinburgh
Notre Dame
The University of Colorado
Loyola
Yale
UC - Berkley
NYU
The University of Tennessee
The University of Virginia
The University of Pennsylvania

"We will have to think our way, not bludgeon our way, into the future. There will be more options, but also more ambiguity in dealing with the challenges we face…. Leaders preparing for service at the strategic level must possess an educational foundation that enables creative and critical thinking in an environment of complexity, ambiguity and uncertainty."

GEN(Ret) Martin Dempsey, '74, former Chairman of the Joint Chiefs of Staff and former faculty member in the Department of English and Philosophy
Foreign Languages (DFL)
THIS IS WHERE YOUR LANGUAGE CAN TAKE YOU
MG Rick Waddell, PhD (USMA ’82)
Deputy Commander for Mobilization and Reserve Affairs
US SOUTHCOM

“My decision to study Portuguese at the United States Military Academy had a tremendously positive impact on my career and helped me to achieve success.”

“While serving as the CEO of Anglo Ferrous, I required my American employees to take Portuguese lessons. This enhanced our work performance and ensured that we maintained a competitive advantage.”
Academic Individual Advanced Development

NORTHCOM
- Mexico

SOUTHCOM
- Brazil
- Colombia

EUCOM
- Portugal
- France (3)
- Germany (2)
- Spain
- Latvia/Estonia
- Georgia/Moldova

AFRICOM
- Morocco (2)
- Oman
- Jordan
- Tajikistan (2)

CENTCOM
- Taiwan

PACOM
- China (3)
- Macau (Portuguese)
### DFL Major Courses

- 8 Primary Language Courses
  - Intermediate Language Courses (371/372)
  - Civilizations (483/484) & Literature Courses (485/486/492)
  - Military Speaking and Reading (476)
  - Reading & Writing Through the Media (475)

### Major Courses not in DFL

- 6 Primary Language Courses
- Intermediate Language Courses (371/372)
- Civilizations & Literature
- Military Readings
- Media

- 4 Secondary Language Courses
  - Basic Language Courses (203/204)
  - Intermediate Language Courses (371/372)

### Single Language Major (10 Courses)

- The Nature of Modern Languages (LN380)
- Language & Culture Capstone Seminar (LN490)
- 8 Primary Language Courses
  - Intermediate Language Courses (371/372)
  - Civilizations (483/484) & Literature Courses (485/486/492)
  - Military Speaking and Reading (476)
  - Reading & Writing Through the Media (475)

### Dual Language Major (12 Courses)

- The Nature of Modern Languages (LN380)
- Language & Culture Capstone Seminar (LN490)
- 6 Primary Language Courses
  - Intermediate Language Courses (371/372)
- Civilizations & Literature
- Military Readings
- Media

- 4 Secondary Language Courses
  - Basic Language Courses (203/204)
  - Intermediate Language Courses (371/372)

### Foreign Area Studies Major (10 Courses)

- 4 Primary Language Courses
  - 2 Intermediate (371/372)
  - 2 Advanced (475/476/483/484/485/486/492)
- 2 Geography Courses (EV365 / EV376 - Regional)
- 2 Regionally Focused Social Science Courses (SS383/SS366)
- 1 Regionally Focused History Course (HI339)
- 1 Capstone Course (LN490 / SS496 / EV382)

---

*Basic language (203/204) and Regional History (HI108) courses related to a cadet's assigned language/region do not count toward the major.
Double Majors

If you are interested in double majoring please contact the appropriate DAC below:

- Arabic – MAJ Nowak  
  kathy.nowak@westpoint.edu

- Chinese – CPT Gardinier  
  jeremy.gardinier@westpoint.edu

- French – DR Praud  
  julia.praud@westpoint.edu

- German – CPT Means  
  laura.means@westpoint.edu

- Persian – Ms. Irani-Tehrani  
  stephanie.irani-tehrani@westpoint.edu

- Portuguese – MAJ Isakson  
  james.isakson@westpoint.edu

- Russian – Dr. Chenoweth  
  carlotta.chenoweth@westpoint

- Spanish – CPT Arauz  
  luis.arauz@westpoint.edu
Be an Arabic Language Major!

What Can I Expect as an Arabic Major?

As an Arabic Language or Middle Eastern Studies major you will develop your linguistic interest and aptitude by broadening and deepening your mastery of the language and culture at the crossroads of yesterday, today and tomorrow. The Middle East is the cradle of civilization, the birthplace of the world’s three great monotheistic religions, and stands at the center of energy markets, the global economy, and geopolitics for the foreseeable future.

Immersion opportunities in the Arab world include:

• **Immersion** during spring break. Cadets have traveled to Marrakesh, Morocco, a wonderful central location to experience the Atlas Mountains, Sahara Desert, Atlantic coast – all important parts of the Moroccan cultural tapestry.

• **SAP** Starting in 19-2 we will have Cadets studying on the Semester Abroad Program in Jordan, Morocco, and Oman, and we are always looking for new educational opportunities for Cadets in the Arab world.

• **AIAD** intensive summer Arabic cultural-linguistic immersion. We offer programs of travel and study as well as service opportunities to put your values to work while you learn. Study Arabic abroad for academic credit!

• **Academic Award Available:** Honor Society of Phi Kappa Phi, Arabic Honors Programs, Graduation Honor Roll, and the BG Charles P. Stone’s Award for Excellence in Arabic.

Show off your regional expertise by competing as a delegate in the Model Arab League against other top universities, or explore Arab language and culture through films, cuisine, or trip sections.
What Are My Study Program Options?

Here are some sample 8TAPs for the Arabic Language major or the Middle Eastern Studies major; each consisting of 13 courses. 1- Take a double-language major with 15 courses, replacing one upper-level Arabic course with four courses in a second language. For Honors majors with thesis add an additional advanced level elective and LN488.

### Courses in the Arabic Major

- **LA371**: Intensive Intermediate Arabic
- **LA372**: Arabic for Oral & Written Comm
- **LA470**: Special Topic in Arabic
- **LA472**: Colloquial Arabic
- **LA475**: Arabic RDG/WRTG thru Media
- **LA476**: Military SPKG/RDG
- **LA483**: Arab Civilization I
- **LA484**: Arab Civilization II
- **LA485**: Arabic Literature I
- **LA486**: Arabic Literature II
- **LA492**: Arabic Literature III
- **LN487**: Adv Ind Language Study
- **LN488**: Adv Ind Language Study
- **LN490**: Language & Culture CAP SEM
- **LN491-5**: Semester Abroad: ADV Language

*LN440 Arabic in Context may replace any LN or LA course and Regional History (HI108) courses related to a cadet's assigned language/region do not count toward the major.

### Example: Arabic Language Major

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### Example: Dual Arabic and French Major

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### Example: Middle Eastern Studies Major

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*Basic language (203/204) and Regional History (H108) courses related to a cadet’s assigned language/region do not count toward the major.
Where will your language take you?

選擇中文!
Be a Chinese Major!

Chinese Language / Chinese with Honors
East Asian Area Studies / Dual Language

Hangzhou, China – Summer 2017

Badaling Great Wall, China – Spring 2015

Beijing, China – Winter 2017

Beijing, China – Fall 2017
As a Chinese language major, you will develop a high level of Chinese language proficiency and cultural understanding. Your courses will focus on language, culture, and Chinese society. You may have the opportunity for academic travel to Chinese-speaking areas such as Taiwan, Singapore, or Mainland China.

**SEMESTER ABROAD PROGRAM (SAP):** Spend a semester studying Chinese and gaining priceless cultural insight in an immersion environment in Beijing, China or Taipei, Taiwan.

**AIADs:** Travel to Mainland China or Taiwan to study Chinese in an intensive summer language program while traveling to historic sites.

**CHINESE LANGUAGE FORUM:** Participate in weekly club activities; learn and experience Chinese culture through food, media and presentations; and socialize with other Chinese-language cadets.

**ACADEMIC AWARDS AVAILABLE:** Compete for the BG Charles J. Barrett Memorial Award for most outstanding cadet in language studies; the SGT Larry Morford Friendship Award for Chinese and Russian; the LTG Ying Hsing Wen Memorial Award for Chinese; and the Brigadier General Anthony J. Smith Award for excellence in foreign studies.

In addition to potential semesters abroad and AIADs to China, Taiwan, and other Chinese-speaking countries, Chinese majors also have the opportunity to put their language skills to use in world-impacting research on any number of available topics. Past Cadets conducted individual research at the Chinese Academy of Social Sciences in Beijing; interviewed Chinese colleagues in focus groups; and completed field research in Taiwan. Opportunities for research and study abroad are numerous and can be individually-tailored to research interests. Research trips to conferences or other events during the semester (4-5 day trip sections) or over long breaks are also common.

You can choose from a **Chinese Language Major**, combine Chinese and another language in a **Dual Language Major**, or combine language and regional studies with an interdisciplinary **East Asian Foreign Area Studies Major**. Each of these options also has an honors program. Languages work well as part of a **Double Major** with another department. An **East Asian Regional Studies Minor**, comprising three language classes and two regional electives is also available.
Étudiez le français!
Be a French Language Major!
French Language ~ French with Honors ~ European Area Studies ~ African Area Studies ~ Double Language

Where will your language take you?
As a French language major, you will not only be able to thrive in a francophone environment, but you will also have the cross-cultural foundation necessary to operate and succeed wherever your Army career takes you.

**MIAD:** Train with French junior officers as they test their mettle at the French Airborne School or the grueling French Commando School!

**AIAD:** Study in an intensive summer language immersion program at the Center for French Language at the School of the Gendarmerie in Rochefort, France, or travel to francophone Africa.

**SEMESTER ABROAD PROGRAM (SAP):** Spend a semester studying French and truly experiencing the culture in an immersion environment in France. Attend universities in Lille, Lyon, or the Military Academy of Saint-Cyr as part of West Point’s oldest foreign exchange program. Many SAP attendees have the opportunity to conduct joint military training with select French units.

**FRENCH FORUM:** Participate in bi-weekly club activities, learn and experience francophone culture through food, media and instruction. Socialize with other French-speaking cadets. Taste and see French and francophone culture during seasonal trip sections to Montréal and Québec.

**ACADEMIC AWARDS AVAILABLE:** The Brigadier General Charles J. Barrett Memorial Award for most outstanding cadet in language studies, The Order of Lafayette Award for excellence in French, The Brigadier General Anthony J. Smith Award for excellence in foreign studies.

You can choose from a **French Language Major**, combine French and another language with a **Dual Language Major**, or combine the language and the region with an interdisciplinary **European or African Studies Major**. Each of these options can be taken as an honors program.

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### Sample French-language 8TAP (LN380, LN490, 3xCSC, and 8 French)

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### Sample Dual-Language 8TAP (French & Arabic)

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### Sample Area Studies 8TAP (Europe)

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*Basic language (203/204) and Regional History (H108) courses related to a cadet’s assigned language/region do not count toward the major.*

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**LANGUAGE COURSES**

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<td>LF472</td>
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<td>MILITARY SPEAKING/RDG IN FRENCH</td>
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**COMPLEMENTARY SUPPORT COURSES:**

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<td>LF308</td>
<td>GEOGRAPHY OF EUROPE</td>
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<td>HE388</td>
<td>WARFARE IN AGE OF REVOLUTIONS</td>
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<td>COMPARATIVE LEGAL SYSTEMS</td>
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**AREA STUDIES COURSES**

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<td>SS366</td>
<td>COMPARATIVE POLITICS</td>
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<td>SS377</td>
<td>POLITICS &amp; GOVERNMENT OF EUROPE</td>
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</tbody>
</table>
Where will your language take you?

Studieren Sie Deutsch!
Be a German Major!
GO ABROAD!
We want our German Majors to experience life in Germany and Austria. Each year we send at least 12 cadets on Summer AIADs and 12 cadets on Semesters Abroad.

As a German Language or Foreign Area Studies Europe major you will develop your linguistic and cultural abilities, while forming a solid foundation in the humanities. Germany is the most widely spoken language in Europe. Germany is the driving economic power for Europe and has a rich history of philosophy, psychology, and scientific innovation. Additionally, Germany is a long-term military partner and one of our closest allies.

**Immersion** opportunities in the German-speaking world include:

- **Spring Break Immersion**: Cadets have traveled to cities and regions in Germany such as Berlin, Dresden, Hamburg, and Munich, as well as Vienna, Salzburg, and the Alps in Austria. These trips also included visits to famous historical sites from the 16th - 20th Centuries.

- **SEP (Semester Exchange Program)**: The keystone of the exchange program is cooperation with the Universities of the Bundeswehr in Munich and Hamburg, and the Theresian Military Academy in Vienna. What separates the German program, however, is the reciprocal exchange that allows Cadets to form relationships while abroad, and then to continue them when German and Austrian students later spend a semester at USMA.

- **AIAD**: The German section offers the opportunity to spend three weeks with a unit of the Bundeswehr. Past examples include Gebirgsjäger, Panzer, Fallschirmjäger, and Panzergrenadiere units, in locations throughout Germany.

- **German Forum**: Explore German language and culture through films, cuisine, and trip sections. The Forum participates yearly in the Steuben Parade and Quadrille Ball in New York City, and many smaller club events throughout the year. Additionally, the club also offers Stammtisch, where Cadets can practice German in a casual atmosphere with civilians, exchange students, and Officers.

What Are My Study Program Options?

You can be a **German Language Major**, a **Dual Language Major**, or combine the language and the region with an interdisciplinary **Foreign Area Studies: Europe** major.

**Sample German-language 8TAP**

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**Sample Dual-Language 8TAP**

**German Course Offerings**

**Sample 8TAP: Foreign Area Studies, Europe**

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*Basic language (203/204) and Regional History (H108) courses related to a cadet’s assigned language/region do not count toward the major.*
Where will your language take you?

**Persian is the official language of Afghanistan**

**Is this for you?**
Learn more by checking us out at the DFL page or look us up on Facebook: West Point Department of Foreign Languages

خوش آمدید!

Drop by the Persian office in DFL (WH5100C) or contact your instructor directly.

@westpoint_
stephanie_irani-tehrani@westpoint.edu.edu

**Middle East Area Studies**
**Eurasian Area Studies**
**Dual Language**

Where will your language take you?
Why Study Area Studies Persian?

The sphere of influence of the Persian language and culture, or the Persianate World, stretches from China in the East through Central Asia to Georgia and Azerbaijan in the north, the Persian Gulf in the South and Kurdistan in the West. As an Area Studies Middle East (Persian) major you will develop your linguistic skills by gaining mastery of the language and culture at the crossroads of history and civilization. You will also get a strong complement of multi-disciplinary courses from other departments in order to contextualize and deepen your understanding of the region and the language.

OPEN YOUR WORLD: GO ABROAD

AIAD: Persian boasts the longest Summer AIAD program of any language with an 8-week immersion in Dushanbe, Tajikistan. Cadets live with host families and receive formal instruction in Iranian Persian (Farsi) and Tajik Persian (Tajiki). Cadets visit major historic sites of Tajikistan, and take regular excursions into the majestic Tajik countryside. SAP: Apart from intense cultural and linguistic immersion, cadets take part in distance learning and online courses while in Dushabeh for a whole semester.

Spring Immersion: During Spring Break cadets have participated in immersion experiences I places such as Los Angeles and Central Asia. Persian Forum: Cadets are encouraged to take advantage of events organized by the Persian Forum. The club holds movie nights, and travels to NYC to visit museums and exhibitions, experience Persian, Tajik, and Afghan cuisine, and also march in the annual Persian Parade. The Forum visits NYC’s Zoroastrian Fire Temple as well as a Jewish Temple in the Great Neck area of New York. In addition, the Forum regularly holds “Farsi Friday” tea and conversation events at the office of the Persian section to encourage development of conversational skills.

Academic Award Available: Honor Society of Phi Kappa Phi and DFL Award for Excellence in Persian Studies.

What will my program be?

Here is a sample 8TAPs for the Area Studies Middle East: Persian major consisting of ten courses. Or, take a dual-language major with Persian and another language, six in the primary and four in the secondary language.

For an Honors major with thesis, add LN488.

Courses Offered in Persian

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Example: Area Studies Middle East: Persian

Example: Dual Persian/Arabic Major

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Where will your language take you?

BEM-VINDO!
Be a Portuguese Language Major!

PORTUGUESE LANGUAGE ~ PORTUGUESE WITH HONORS ~
LATIN AMERICA, EUROPE, AFRICA AREA STUDIES ~ DOUBLE
LANGUAGE
As a Portuguese language major you will follow a track of courses designed to develop your Portuguese language proficiency and cultural understanding. These courses will focus on language, culture and life in the Lusophone World. You may also have the opportunity for academic travel to Portuguese-speaking areas such as Brazil, Portugal, Mozambique, and Cape Verde among others.

**SEMESTER ABROAD PROGRAM (SAP):** Spend a semester studying Portuguese and truly experiencing the culture in an immersion environment at the Brazilian Military Institute (IME) in Rio de Janeiro, Brazil, the University of Coimbra, Portugal or at the Portuguese Military Academy in Lisbon, Portugal.

**AIAD:** Travel to Brazil, Portugal or other Lusophone countries to study and speak Portuguese in military and non-military settings, and travel to see historic sites.

**MIAD:** Travel to the Agulhas Negras Mountain Range to take part in the Brazilian Mountain School.

**FOREIGN ACADEMY EXCHANGE PROGRAM (FAEP):** Travel to military Academies in Resende, Brazil, Lisbon Portugal, Nampula, Mozambique, to live the life of a Portuguese-speaking cadet!

**PORTUGUESE FORUM:** Participate in club activities, learn and experience Portuguese culture through food, media and instruction, and socialize with other Portuguese-language cadets.

**ACADEMIC AWARDS AVAILABLE:** The Brigadier General Charles J. Barrett Memorial Award for most outstanding cadet in language studies, The award for Excellence in Portuguese sponsored by the Daughters of the Founders and Patriots of America, and The Brigadier General Anthony J. Smith Award for excellence in foreign studies.

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### What Can I Expect as a Portuguese Major?

### What Are My Study Program Options?

You can choose from a **Portuguese Language Major**, combine Portuguese and another language with a **Dual Language Major**, or combine the language and the region with an interdisciplinary **Latin America, Europe or Africa Studies Major**. Each of these options can be taken as an honors program.

#### Sample Portuguese-Language 8TAP

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*Basic language (203/204) and Regional History (H108) courses related to a cadet’s assigned language/region do not count toward the major.

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### Sample Dual-Language 8TAP (Portuguese & Spanish)

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### Sample Foreign Area Studies 8TAP (Latin America)

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*Basic language (203/204) and Regional History (H108) courses related to a cadet’s assigned language/region do not count toward the major.*
Where will your language take you?
As a Russian language major you will follow a track of courses designed to develop your Russian language proficiency and cultural understanding. These courses will focus on language, culture, and Russian life. You may also have the opportunity for academic travel to Russian-speaking places such as Kazakhstan, Belarus, Georgia, Moldova, Armenia, or Latvia.

FOREIGN ACADEMY EXCHANGE PROGRAM (FAEP): Travel to places like the Kazakhstan National Military Institute in Almaty and live the life of a Kazakhstani cadet.

MIAD: Travel to the Caucasus Mountains in Georgia to take part in the NATO-accredited Georgian Mountain Training School.

AIAD: Travel to Daugavpils, Latvia or Batumi, Georgia to study Russian in an intensive summer language immersion program, and travel to see historic sites.

SEMESTER ABROAD PROGRAM (SAP): Spend a semester studying Russian and truly experiencing the culture in an immersion environment in Daugavpils, Latvia, Batumi, Georgia, Kishinev, Moldova, Kiev, Ukraine, or Almaty, Kazakhstan. Some SAP attendees also complete the “frozen conflicts” study program in republics of the former Soviet Union.

RUSSIAN CLUB: Participate in weekly club activities, learn and experience Russian culture through food, media, and guest lectures; socialize with other Russian majors and Russian-speaking cadets.

ACADEMIC AWARDS AVAILABLE: The BG Charles J. Barrett Memorial Award for most outstanding cadet in language studies, The Col. Phillip Matthews Award for excellence in Russian, The West Point Friendship Award for excellence in Russian, The BG Anthony J. Smith Award for excellence in foreign studies.

What Are My Study Program Options?

You can choose from a **Russian Language Major** or combine Russian with another language in a **Dual Language Major**, or combine study of the language and region with an interdisciplinary **Eurasian Studies Major**. Each of these options can be taken as an honors program. A **Regional Studies Minor** is also available.

**Sample Russian Language 8TAP**

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*Basic language (203/204) and Regional History (11108) courses related to a cadet’s assigned language/region do not count toward the major.

**Sample Dual Language 8TAP**

**Sample Area Studies 8TAP (Eurasia)**

**Sample Russian Language 8TAP**

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*Basic language (203/204) and Regional History (11108) courses related to a cadet’s assigned language/region do not count toward the major.
¡BIENVENIDOS!
Be a Spanish Language Major!

SPANISH LANGUAGE ~ SPANISH WITH HONORS
LATIN AMERICAN STUDIES ~ DOUBLE LANGUAGE
What Can I Expect as a Spanish Major?

As a Spanish language major you will follow a track of courses designed to develop your Spanish language proficiency and cultural understanding. These courses will focus on language and cross-cultural competency. You may also have the opportunity for academic travel to Spanish-speaking areas such as Spain, Chile, Mexico, or Colombia.

FOREIGN ACADEMY EXCHANGE PROGRAM (FAEP): Travel to places like the Spanish, Colombian, Peruvian, or Mexican Military Academies and live the life of a Spanish-speaking Military cadet.

MIAHD: Travel to Lonquimay in Chile to take part in the Chilean Mountain Warfare School.

AIAD: Travel to Spain, Chile, Colombia, Mexico, Argentina, or another Spanish-speaking country to study Spanish in an intensive summer language immersion program, and travel to see historic sites.

SPRING IMMERSION: Spend your spring break experiencing Spanish or Latin American culture first hand in countries like Costa Rica, Puerto Rico, Spain, or other exciting locations.

SEMESTER ABROAD PROGRAM (SAP): Spend a semester studying Spanish and culture in an immersion environment in Spain or Chile.

SPANISH FORUM: Participate in monthly club activities, learn and experience Spanish culture through food, media and instruction, and socialize with other Spanish-language cadets.

ACADEMIC AWARDS AVAILABLE: Honor Society of Phi Kappa Phi, Spanish Honors Program, Graduation Honor Roll

What Are My Study Program Options?

You can choose from a Spanish Language Major, combine Spanish and another language for a Dual Language Major, or combine the language and the region with an interdisciplinary Latin American Studies Major. Each of these options can be taken as an honors program. Language majors also work well as part of a Double Major with another department.

Third Class courses are identical for all Spanish Major options.

Sample Spanish-language 8TAP

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Sample Area Studies 8TAP (Latin America)

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*Basic language (201/204) and Regional History (HI108) courses related to a cadet’s assigned language/region do not count toward the major.
“Open the World”

“When I tell people in America that I am a language major, they generally say something like, ‘Why would you study languages? Everyone in Europe speaks English now anyways.’ Because of this, I questioned my decision a few times on becoming a language major. After a few days in country, these questions went away.

To truly connect with people from another culture and way of life you need to speak their native language.”

-Cadet FAEP After Action Review
Geography & Environmental Engineering (G&EnE)
To enhance the intellectual, character, and military development of all cadets within the context of a core course in physical geography, a 3 course environmental engineering sequence, 4 majors, and a diverse offering of elective courses all while supporting the continued development of faculty and staff.

CONTACT:
GEO: CPT(P) Alex Pytlar
EV: CPT(P) Chelsea Linvill
GIS: MAJ Jordan Laughlin
Environmental Engineering

The application of science and engineering principles to protect human health and minimize adverse effects of human activities on the environment.

Who should study EV Engineering?
Cadets who see themselves developing engineered solutions to environmental challenges, including water pollution, air pollution, and climate change. Environmental engineers are leading the creation of a sustainable and resilient future.

Who should I talk to?!
EV Engineering: LTC Andrew Pfluger
andrew.pfluger@westpoint.edu

EV Program DAC: CPT Chelsea Q Linvill
chelsea.linvill@westpoint.edu

The environmental engineering major is accredited by the Engineering Accreditation Commission of ABET (http://www.abet.org).
Environmental Science

An integrative, holistic science-based study of how humans influence and are affected by the biological, chemical, and physical processes which shape the environment with the goal of minimizing environmental degradation and working towards sustainability.

Who should study EV Science?
Cadets who like science, care about the outdoors and the preservation of natural resources and want to understand the difficult environmental challenges of today.

Who should I talk to?!
EV Science: COL Mindy Kimball
mindy.kimball@westpoint.edu
EV Program DAC: CPT Chelsea Q Linvill
chelsea.linvill@westpoint.edu

Visit Our Website
Tell the story of our interaction with Earth in GIS

Join the Team 👋

Visit our website
GIS Courses

- EV377 – Remote Sensing
- EV378 – Cartography
- EV398 – Geographic Information Systems
- EV477 – Advanced Remote Sensing
- EV498 – Advanced Geographic Information Systems
- EV478 – Geospatial Military Operations
- EV379 – Photogrammetry
- EV380 – Principles of Surveying
- EV482 – Military Geography

Collect, Analyze, Visualize problems through a lens that considers physical relationships and spatial distribution.
History (Hist)
# The History Major

**Step 1:** Choose between honors, thesis, and without thesis programs.

**Step 2:** Choose a primary stem and select 5 electives from your primary stem (see courses at left).

**Step 3:** Choose two history electives from outside of your primary stem (see courses at left).

**Step 3a:** If an honors major, choose one 400-series elective in addition to all courses previously selected.

**Step 4:** Choose one more elective annotated with an asterisks from any stem as an Integrative Experience during your Firstie Year.

**Step 5:** Work with your DAC to choose two complementary support courses that support your unique research interests.

**Step 6:** Choose one of more than 30 subject fields for your senior colloquium, HI498. For honors majors and thesis majors, this will reflect your choice for HI499 as well.

**Step 7:** Sign up for one of our exciting AIADs and/or individual research opportunities. These experiences may count as one of your history electives!

---

**American History Stem**

- HI340: Colonial America
- HI369: American Frontiers
- HI372: U.S. Foreign Relations since 1898
- HI390: Early National America
- HI394: Revolutionary America
- HI395: Civil War America
- HI396: Making of Modern America, 1877-1945
- HI397: Cold War America
- HI398: Society and Culture in American History

**International History Stem**

- HI337: China from Central Kingdom to Communist Rule
- HI339: The Modern Middle East
- HI341: The Age of Exploration
- HI343: Modern Germany
- HI344: Modern Diplomacy
- HI345: Modern Africa
- HI346: Modern South Asia
- HI347: Asian Warfare and Politics
- HI348: Modern Latin America
- HI354: World War I in Global Context
- HI356: Modern European
- HI370: Ancient & Medieval Warfare
- HI371: The Holy War
- HI372: The Age of Exploration
- HI374: Imperial and Soviet Russia
- HI375: Modern Central and Eastern Europe, 1896-1989
- HI376: Middle Eastern Warfare
- HI378: Warfare in the Age of Revolutions
- HI379: The Modern Middle East
- HI380: World War I in Global Context
- HI381: War and Its Theorists
- HI383: Middle Eastern Warfare
- HI385: Modern Central and Eastern Europe, 1896-1989

**Military History Stem**

- HI388: Warfare in the Age of Revolutions
- HI389: War and Its Theorists
- HI390: Early National America
- HI391: Revolutionary America
- HI392: Civil War America
- HI393: Making of Modern America, 1877-1945
- HI394: Cold War America
- HI395: Society and Culture in American History
- HI396: Modern European
- HI397: Ancient & Medieval Warfare
- HI398: Middle Eastern Warfare
- HI399: World Religions

**Department-Level Courses** (applicable to all stems)

- HI410: Violence and Sex: History of War
- HI412: Topics in Gender History
- HI413: Race, Ethnicity, Nation
- HI414: Visiting Professor Elective
- XH341: Intel Cyber History
- XH405: The Holocaust and its Legacy
- XH415: Genocide and Mass Atrocity

For more information, contact a History Counselor in Thayer 157 or speak to any History Instructor.
Gain the Skills and Knowledge to Excel in the Army and Beyond

An undergraduate degree in history opens doors to many career fields. Understanding history as a critical component of culture is crucial to success in the Army’s current operating environment. Likewise, history majors are in demand for jobs in education, government, politics, and law. Not only is history one of the most common pre-law degrees in America, but the research and writing skills gained with this discipline also prepare you for an MBA or graduate school in a host of other liberal arts. History majors develop superior analytical skills that commanders, executives, and managers greatly value in members of their team.

The Study of History Enhances Your:

- Capacity to acquire, analyze, and process information and data
- Ability to communicate clearly and concisely
- Understanding of human behavior
- Cultural Awareness
- Sense of perspective, contextualization, and empathy
- Ability to handle real-world ambiguity

ALL SKILLS EVERY OFFICER NEEDS!

Travel, Explore, Experience

Tailor your research to meet your personal interests. The History Department offers many opportunities to participate in staff rides, AIAD’S, and individual research trips to places such as U.S. presidential libraries and foreign archives.

- COLD WAR EUROPE STAFF RIDE
- NORMANDY D-DAY STAFF RIDE
- OPERATION MARKET GARDEN STAFF RIDE
- ARCHIVAL RESEARCH TRIPS

...just to name a few!

Participate in trip sections and unique activities during the academic year

American History
Philadelphia, PA

U.S. Holocaust Memorial Museum Trip, Washington, DC

Service through Phi Alpha Theta History Honors Society

“History will not show you all the answers… But, it'll tell you a lot of the questions to ask.”
~ Former Secretary of Defense James Mattis
Law (D/Law)
“All of us need to be reminded that the Federal Government did not create the States; the States created the Federal Government.”

Ronald Reagan

“Nearly all men can stand adversity, but if you want to test a man’s character, give him power.”

Abraham Lincoln

“As long as I have any choice, I will stay only in a country where political liberty, toleration, and equality of all citizens before the law are the rule”

Albert Einstein
Department of Law
Law & Legal Studies Major

STEM Depth - Choose 1 of 2
IT305   Military IT Systems
IT355   Advanced Military IT Systems

Required Law Courses Must take all 3
LW310   Introduction to Legal Studies
LW474   Law of War
LW495   Jurisprudence and Legal Theory

Law Elective Courses – Choose 7 of 11
LW410   Comparative Legal Systems
LW461   Civil Rights
LW462   Cyber Law
LW472   Criminal Law
LW473   Environmental Law
LW475   Advanced Constitutional Law
LW476   Advanced Law of Armed Conflict
LW481   International Law
LW482   National Security Law
LW488   Business Law
LW490   Special Topics

Three electives of choice in either
Social Sciences, History, Behavioral
Sciences & Leadership or Geography &
Environmental Engineering.

** Honors Thesis Program
LW498   Thesis I: Proposal & Research
LW499   Thesis II: Paper & Defense

** Not required for major.

Return to LoM
Mathematical Sciences (Math)
Mathematical Sciences

Cadets interested in studying mathematics or the application of mathematics can pursue a degree in Mathematical Sciences, Mathematical Sciences with Honors, or Mathematical Sciences Studies.

Mathematical Sciences Major is a 41 course program with 13 courses in the major (9 required, 4 elective).

Mathematical Sciences (with Honors) Major
- 42 course program where the additional course is an added semester of research your Firstie year
- Must have Academic Program Score Cumulative (APSC) of at least 3.0 in core courses and 3.5 in major courses
- Cadets are entered into the program at the completion of their 3rd academic year

Double Majors
The Mathematical Sciences Major remains flexible so that Cadets can choose to double major with a variety of other disciplines. Some examples of recent double majors: Life Sciences, Foreign Language, Computer Science, Economics, and Physics.

AIAD Opportunities
The Math department offers many exciting opportunities to use your skills in the summer AIAD programs. Past examples include:
- Disease Biophysics Group – Harvard University (Boston and Seoul)
- NSBE Summer Engineering Experience for Kids– (Various Locations)
- Computational Mathematics Research – (Rancho Santa Margarita, CA & Ashurst, UK)
- Player Management and Data Analytics – Florida Panthers (Fort Lauderdale, FL)
- Defense Manpower Data Center – NPS (Monterey, CA)

WHY MATHEMATICS?
"Mathematics reveals hidden patterns that help us understand the world around us. Now much more than arithmetic and geometry, mathematics today is a diverse discipline that deals with data measurements and observations from science; with inference, deduction, and proof; and with mathematical models of natural phenomena, or human behavior, and of social systems." - Everybody Counts, National Research Council

Wide variety of Complementary Support Courses (CSC) and your choice of Engineering Sequence to tailor your major to your interests:
- Computational Mathematics (Programming, database design/structures, algorithms...)
- Finance Applications (Managerial finance, micro/macro economics, econometrics...)
- Cyber Applications (Cyber security, network systems programming, cyber operations...)
- Engineering Applications (Environmental engineering, physical chemistry, space and astronautics....)
- Network Science (Supply chain engineering and management, deterministic models...)
- Applied Statistics (Research methods and data analysis, statistical physics...)

For further information on this major and others in the department, please visit http://www.westpoint.edu/math/SitePages/Curriculum.aspx
Applied Statistics and Data Science

Cadets interested in conducting in-depth data analysis can pursue a degree in Applied Statistics and Data Science (ASDS) or ASDS with Honors.

Center for Data Analysis and Statistics

The Math Department’s Center for Data Analysis and Statistics (CDAS), established in 2004, offers a variety of potential opportunities for applied statistics students. The CDAS provides statistical and data analysis support and consulting for researchers working on applied problems. CDAS clients have included faculty members from nearly every department at USMA. Other clients at West Point have included many from the medical field working on studies that include orthopedic surgery, physical therapy and more. Some studies include cadet subjects but others, such as studying post-traumatic stress disorder, involve Soldiers in the Army and are directly related to Army operations. The CDAS has several projects with agencies outside West Point within the Army and DoD to include Walter Reed, the Defense Logistics Agency, and Fort Bliss. Further opportunities exist in cutting edge research at Memorial Sloan-Kettering Cancer Center and at D3: Design, Data, Decisions Systems.

The Major in Applied Statistics and Data Science Is...

RELEVANT
"Statistics is a methodological discipline. It exists not for itself, but rather to offer to other fields of study a coherent set of ideas and tools for dealing with data. The need for such a discipline arises from the omnipresence of variability.” - Moore and Cobb

INNOVATIVE
"Hidden within those mounds of data is knowledge that could change the life of a patient, or change the world” – Dr. Atul Butte, Stanford University

INTERDISCIPLINARY
Data science and statistics has experienced rapid growth propelled by the availability of rich and complex data in government, science, and industry. There is a forecasted need for hundreds of thousands of data-science jobs in the next decade.

Applied Statistics and Data Science Major

is a 40-course program with 17 courses in the major (10 required, 3 cyber sequence, 1 research, and 2 electives).

Applied Statistics and Data Science with Honors Major is a 41-course program that is the same as the ASDS Major with an additional requirement to take two semesters of research and complete MA 383, Foundations of Mathematics. (cadets must have an Academic Program Score Cumulative (APSC) of 3.0 in the core courses and 3.5 in major).

After Graduation

Applied Statistics and Data Science prepares USMA graduates to enter the increasingly technical environment of the United States Army and have the capability to analyze rich and complex data. The military specifically uses data science at the strategic, operational, and tactical levels. Applications cover the gamut of military activities including: cyber security, national policy analysis, resource allocation, force composition and modernization, logistics, human resources, battle planning, and maintenance and replenishment.
Cadets interested in applying quantitative methods to decision-making can pursue a degree in Operations Research (OR), Operations Research (with Honors), and Operations Research Studies.

**Operations Research Major** is a 41-course program with 17 courses in the major (8 required, 2 research and 7 electives).

**Operations Research with Honors Major** is a 42-course program that is the same as the OR Major with an additional elective from the chosen thread (cadets must have an Academic Program Score Cumulative (APSC) of 3.0 in the core courses and 3.5 in major).

**After Graduation**

Operations Research prepares USMA graduates to enter the increasingly technical environment of the United States Army. The military specifically uses OR at the strategic, operational, and tactical levels. OR applications cover the gamut of military activities including: national policy analysis, resource allocation, force composition and modernization, logistics, human resources, battle planning, and maintenance and replenishment.

**Wide variety** of Discipline Threads to tailor your major to your interests:
- **Operations Management** (Engineering economy, project management, supply chain/production management…)
- **Data Science** (Database systems, programming and computer aided systems engineering, sabermetrics…)
- **Cyber Applications** (Cyber security, network systems programming, cyber operations…)
- **Networks, Computing, & IT** (Data structures and systems, cyber policy and operations, graph theory and networks…)
- **Simulation** (Combat modeling, dynamic system simulations…)
- **Finance** (Managerial finance, econometrics, micro/macro economics…)

**The Major in Operations Research Is…**

**RELEVANT**

"Operations Research professionals are the key to harnessing the opportunity created by e-business and deep computing. I'm convinced that organizations that make the best use of decision technology [operations research] are those that will be the most successful from now on." Nick Donofrio, Senior Vice President, IBM

**INNOVATIVE**

“To me, operations research is fun because it involves creativity—there isn’t necessarily a single, cookie-cutter approach especially when trying to model large, complex systems like those in transportation.” Cynthia Barnhart, Professor, MIT

**INTERDISCIPLINARY**

Complex problems require the use of interdisciplinary teams to benefit from the larger arsenal of research techniques and tools available through varied scientific and technological disciplines. Operations Research is characterized by these varied disciplines.

**Operations Research Information**


Institute for Operations Research and the Management Sciences [https://www.informs.org](https://www.informs.org)

Military Instruction (DMI)
DEFENSE & STRATEGIC STUDIES

Class of 2024 “Like None Before!”

A DSS Graduate...

➢ Solves complex problems.
➢ Understands national policy, military strategy and operational art.
➢ Effectively communicates the relation of tactical action to national policy for all audiences.

➢ Relevant
DSS educates future leaders to solve complex problems in an uncertain world. DSS Cadets study national policy, military strategy, operational art, and the use of force to understand, analyze and effectively communicate the relation of tactical action to national policy.

➢ Flexible
Choose from three curricular tracks and over 65 pre-approved electives. DSS requires only three mandatory courses and caters to Cadet research interests and preferences. DSS works closely with departments across USMA to provide a streamlined process for dual majors and minors.

➢ Fun
Participate in AIADs with SOCOM, FBI, ATF, DEA, Israel, and others. Join our annual staff ride to Europe over spring break and interact with your British, French and German counterparts. Engage with your peers at other elite institutions like Princeton, Yale, and NYU for crisis simulations, conferences and symposia.

Department Academic Counselors:
LTC Matt Sacra, matt.sacra@westpoint.edu
MAJ Matt Snyder, matthew.snyder@westpoint.edu
CPT Sean Marquis, sean.marquis@westpoint.edu

Dual Major Compatible
65+ Pre-Approved Electives
Physical Education (DPE)
Kinesiology is a broad, interdisciplinary field of study that includes specialties such as exercise physiology, biomechanics, motor control, nutrition, exercise psychology, and exercise testing and prescription. The Kinesiology major covers a wide spectrum of performance issues involving muscular and cardiovascular physiology, energy balance, exercise adherence, neuromuscular control, metabolic regulation, biomechanical aspects of movement, eating disorders, physical development and adaptation to training.
Graduates of the Kinesiology Program will be able to:

- Identify the anatomical structures that help determine physical competency and human movement
- Describe the principles of human physical development and adaptation
- Describe the musculoskeletal principles of work capacity
- Identify the principles of the mechanics of human movement
- Describe the principles of exercise psychology and their application to fitness
- Apply the principles of fitness assessment and exercise prescription
- Describe the nutritional concepts supporting the energy demands of physical training

Program Requirements

A Kinesiology major must complete twenty-four core courses and a three-course engineering sequence.

The major requires ten courses plus three complementary support courses chosen by the cadet from the Departments of Behavioral Sciences and Leadership, Chemistry and Life Sciences, or English and Philosophy.

Honors Program

In order to receive a Kinesiology with Honors degree a cadet must also:

Complete PL361 (Research Methods I) and KN 495 (Honors Thesis)
Attain a minimum APSC of 3.0 in the core curriculum
Attain a minimum APSC of 3.5 in the Kinesiology curriculum
Physics & Nuclear Engineering (PANE)
Physics: the study of matter, how it moves, and how it interacts. The goal of physics is to understand the universe from the smallest sizes inside atomic nuclei to the largest sizes of galaxies.

**Army Physics Opportunities**

Cadets who study advanced physics can serve the Army as:
- Maneuver Commanders
- Battle Staff Officers
- Astronauts
- Engineers
- Doctors
- Army Scientists
- Nuclear Weapons Experts
- Acquisition Project Managers
- Space Operations Specialists
- Intelligence Specialists

**Graduate School Opportunities**

Masters and Ph.D. graduate level Education opportunities in physics:
- Advanced Civil Schooling (ACS)
- Top Tier Universities (MIT, Stanford, Harvard)
- Naval Postgraduate School (NPS)
- Air Force Institute of Technology (AFIT)

**A Physics Major can...**

1. Apply the laws of physics to real-world situations
2. Formulate mathematical models of physical systems.
3. Solve complex equations and provide physical interpretations of mathematical results.
4. Perform research, and uphold scientific standards.
5. Communicate technical and complex information clearly and logically.
6. Be prepared for graduate education.

**AIAD**

**Academic Individual Advanced Development**

You can be teamed with officers or scientists located at Army and other national research laboratories.

AIAD work has been conducted at:
- Livermore Labs, California
- Los Alamos Labs, New Mexico
- NASA-Johnson Space Flight Center, TX
- White Sands, New Mexico
- Army Research Lab, Maryland
- CERN Accelerator Lab, Switzerland
- MIT-Lincoln Lab, Massachusetts
- SMDC, Redstone Arsenal, AL

**Army Physics CFDs**

Career Field Designations (CFDs) that require advanced physics specialists:
- FA40: Space Operations
- FA52: Nuclear & Counter proliferation
- FA51: Acquisition
- FA47: Academy Professor
- FA49: Operational Research & System Analysis
Physics Major (PHY1)

1) Complete 12 required courses (see table below)
2) Complete a 3-course engineering sequence (3CES).
3) Take MA364 (Engineering Math) Third Class year.

<table>
<thead>
<tr>
<th>2nd Class Yr</th>
<th>1st Class Yr</th>
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<tbody>
<tr>
<td>Fall</td>
<td>Fall</td>
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<tr>
<td>3CES-1</td>
<td>3CES-2</td>
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<tr>
<td>PL300</td>
<td>SS307</td>
</tr>
<tr>
<td>PH365</td>
<td>EE301</td>
</tr>
<tr>
<td>PH381</td>
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<tr>
<td>MX400</td>
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</table>

Honors in Physics (PHY1H)

Honors will be awarded to cadets who meet a minimum GPA, complete PH389, and complete one additional course from the following list:

- NE361 Computational Design in NE
- NE474 Radiological Safety
- SP471 Astronautics
- SP472 Space Physics
- SP473 Astronomy
- SP474 Astrophysics
- PHx89y Individual Research (x=3,4; y=_,A,B)
- PH495 Special Topics in Physics
- MA371 Linear Algebra
- MA376 Applied Statistics
- MA385 Chaos and Fractals
- MA386 Introduction to Numerical Analysis
- MA396 Numerical Methods for Solutions of Differential Equations
- MA476 Mathematical Statistics
- MA484 Partial Differential Equations
- MA485 Applied Complex Variables

Questions?

Dr. D. O. Kashinski  | Dr. M. J. Pfenning
845-938-4526        | 845-938-0208
David.Kashinski@usma.edu | Michael.Pfenning@usma.edu
Do you have what it takes?

Do you want to:
- Be part of an interdisciplinary STEM program taught by excited Army professionals who want you to succeed?
- Earn a challenging, relevant degree which is the 4th highest paying major in the US according to CNBC?¹
- Be part of the sole source of Nuclear Engineering-educated undergraduates for the US Army?
- Graduate from 1 of less than 50-accredited undergraduate NE programs in the United States which is ranked 4th in the country?²
- Have the opportunity to participate in AIADs and independent research on real-world problems at top national labs / weapons facilities?
- Make the most of your 47-month West Point experience?

If you answered “yes” to any of the above, you should consider majoring in Nuclear Engineering.

². [https://www.collegechoice.net/rankings/best-nuclear-engineering-degrees/](https://www.collegechoice.net/rankings/best-nuclear-engineering-degrees/)

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### Nuclear Engineering Major (NEN1) Class of 2024

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3rd</td>
<td>NE300</td>
<td>Fund. of Nuclear Engineering</td>
</tr>
<tr>
<td>4th</td>
<td>MC300</td>
<td>Fund. of Engr. Mech. and Design</td>
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<tr>
<td></td>
<td>NE361</td>
<td>Computational Design in NE</td>
</tr>
<tr>
<td>5th</td>
<td>EE301</td>
<td>Fund. of Electrical Engineering</td>
</tr>
<tr>
<td></td>
<td>NE474</td>
<td>Radiological Safety</td>
</tr>
<tr>
<td></td>
<td>MA364</td>
<td>Engineering Mathematics</td>
</tr>
<tr>
<td>6th</td>
<td>MC311</td>
<td>Thermal-Fluid Systems I</td>
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<tr>
<td></td>
<td>MC364</td>
<td>Mechanics of Materials</td>
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<tr>
<td></td>
<td>NE355</td>
<td>Nuclear Reactor Engineering</td>
</tr>
<tr>
<td></td>
<td>PH365</td>
<td>Modern Physics</td>
</tr>
<tr>
<td>7th</td>
<td>ME480</td>
<td>Heat Transfer</td>
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<tr>
<td></td>
<td>NE461</td>
<td>Adv. Computational Design in NE</td>
</tr>
<tr>
<td></td>
<td>NE452</td>
<td>Instrumentation and Shielding</td>
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<tr>
<td></td>
<td>NE495</td>
<td>Adv. Nuclear Sys. Design Project I</td>
</tr>
<tr>
<td>8th</td>
<td>NE450</td>
<td>Nuclear Weapons Effects</td>
</tr>
<tr>
<td></td>
<td>XX - - -</td>
<td>Elective (choose 1 of 15)</td>
</tr>
<tr>
<td></td>
<td>NE400</td>
<td>Nuclear Engineering Seminar</td>
</tr>
<tr>
<td></td>
<td>NE496</td>
<td>Adv. Nuclear Sys. Design Project II</td>
</tr>
</tbody>
</table>

### Nuclear Engineering Core Engineering Sequence (NE CES)

- NE300 Fund. of Nuclear Engineering
- NE350 Radiological Engineering Design
- NE450 Nuclear Weapons Effects

For more information, contact:

Dr. Kenneth Allen   LTC Ron Hasz
938-3548            938-8611
Kenneth.Allen@westpoint.edu Ronald.Hasz@westpoint.edu

The Nuclear Engineering Program at the United States Military Academy is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org
Did you know...

The US Department of Defense uses 1-million barrels of oil every 3 days.

The Department of the Army is currently pursuing the development of micro-modular nuclear reactors for use in ground operations.

Program Facts

2018-2019 Enrollment

- 59 B.S. Nuclear Engineering (ABET Accredited) majors
- 5 Minors in Nuclear Engineering
- 80 Nuclear Engineering Sequence cadets

Facilities & Equipment

- Subcritical Facility
- Pelletron SSDH Particle Accelerator
- Radiation Detection and Spectroscopy Lab
- Computed Radiography
- 3D Scanning and Printing
- State-of-the-Art Computational Labs
- Machine Shop with CNC Equipment

Research Focus

- Mobile Nuclear Power Plants
- Radiation Detector Development
- Nuclear Counterproliferation
- Nuclear Weapon Effects and Forensics

Sponsors & Research Grants

- Defense Threat Reduction Agency (DTRA)
- Advanced Research Projects Agency (ARPA-E)

Research Funding

- FY2018 - $360K awarded
- FY2019 - $250K projected

Academic Individual Advanced Development (AIAD) and Other Opportunities

Be teamed with officers and scientists located at Army and national research laboratories. Previous AIAD work has been conducted at:

- Lawrence Livermore Lab, CA
- Los Alamos and Sandia Labs NM
- NASA-Johnson Space Flt Center, TX
- Army Research Laboratory, MD
- Pantex (TX) and Hanford (OR) Plants
- Walter Reed Army Med. Center, MD
- ESRF, France and CERN, Switzerland
- German Bundeswehr Research Center
- IAEA, Austria and ITER, France

Qualifying NE majors have recently been selected for:

- Post-graduation scholarships (Draper and GEM)
- Semester Abroad (Singapore, Latvia, Spain, Morocco and others)
- Academy Exchange

Recent NE majors have been recognized for:

- Best paper at the National American Nuclear Society Student Conference
- Contributing authors for peer-reviewed publications
Introducing the newest program
USMA has to offer...
Space Science Major
Space Science Minor

Reasons to study Space Science at USMA...

Space exploration is exciting...

"Deciphering" the Universe is a ceaseless human endeavor throughout history...

Space is fascinating...

Space is competitive, congested, and contested...

Space is dangerous...

Space is the final frontier and the ultimate high ground!

"The now-ubiquitous and interconnected nature of space capabilities and the world’s growing dependence on them mean that irresponsible acts in space can have damaging consequences for all of us."
- 2010 National Space Policy

Satellites, Planets, Stars, Spacecraft, Rockets, Missiles, Lasers.....
All the (right) stuff you’ve dreamed of....
Don’t just dream it....LIVE it!!!
# 8TAP for the Space Science Major

**Space Science Major (SSC0) – Proposed 8-Term Academic Plan (8TAP)**

<table>
<thead>
<tr>
<th>4th Class Year</th>
<th>3rd Class Year</th>
<th>2nd Class Year</th>
<th>1st Class Year</th>
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<tbody>
<tr>
<td>Fall</td>
<td>Spring</td>
<td>Fall</td>
<td>Spring</td>
</tr>
<tr>
<td>CH101 CHEMISTRY</td>
<td>PH2X5 PHYSICS 1</td>
<td>PH2X6 PHYSICS 2</td>
<td>SS202 AMERICAN POLITICS</td>
</tr>
<tr>
<td>EN101 ENGLISH</td>
<td>EN102 ENGLISH</td>
<td>SS201 ECONOMICS</td>
<td>PY201 PHILOSOPHY</td>
</tr>
<tr>
<td>HI10X HISTORY</td>
<td>HI108X REGIONAL HISTORY</td>
<td>LX203 LANGUAGE</td>
<td>LX204 LANGUAGE</td>
</tr>
<tr>
<td>MA103 INTRO TO CALCULUS</td>
<td>MA104 CALCULUS 1</td>
<td>MA205 CALCULUS 2</td>
<td>MA364 ENGINEERING MATH</td>
</tr>
<tr>
<td>IT105 INTRO. TO COMPUTING &amp; INFO. TECH.</td>
<td>PL100 PSYCHOLOGY</td>
<td>MA206 PROB. &amp; STATISTICS</td>
<td>EV203 PHYSICAL GEOGRAPHY</td>
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</tbody>
</table>

**Legend (Space and Missile Defense areas of interest)**

- Directed Energy
- Missile Defense
- Cyber Operations
- Space Science
- Policy Development

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Want more information? 
contact Dr. Paula Fekete 
paula.fekete@westpoint.edu 
Office: BH470B; 845-938-6468
Space Science Minor

Take 3 space-related courses (SP471, SP472, and SP473) AND choose 2 electives within almost any major:

- BS&L majors
- C&LS majors
- C&ME majors
- EECS majors
- History majors
- Law majors
- Kinesiology majors
- Physics majors
- English & Philosophy majors*
- Foreign Language majors*
- Geography / Env. Eng. majors
- Mathematical Science majors*
- Def. & Strat. Studies majors
- Nuclear Engineering majors
- Social Science majors*
- Systems Engineering majors

*Note: Some majors may need to take the CY 3CES or may need very close consultation with the SPA0N DAC.

Want more information? contact Dr. Paula Fekete paula.fekete@westpoint.edu Office: BH470B; 845-938-6468
Social Sciences (Sosh)
**Your Course of Study**

The AP Major consists of: 5 “Toolbox” Courses, 4 AP courses, 1 Comparative Politics or International Relations course, and 3 Complementary Support Courses.

### Toolbox Courses

- **SS360 Research Methods:** An introduction to the methods and techniques of research in contemporary political science.
- **SS366 Comparative Politics:** Analyzes the sources of stability or instability in political regimes and examines the conditions that promote either democracy or dictatorship.
- **SS376 American Political Development:** explores patterns in the public policy process and examines historical processes to analyze American political institutions and policy outcomes.
- **SS386 Political Thought:** A comparative political philosophy course examining the philosophical foundations of Western liberal democracy and political Islam, and associated policy implications.
- **SS480 Public Policymaking:** The AP capstone course, integrating and synthesizing prior study and culminating in a final project focused on a current public policy issue.

### Choose Four AP Courses

- **SS386** MASS MEDIA & AMERICAN POLITICS
- **SS373** THE AMERICAN PRESIDENCY
- **SS379** LEGISLATIVE POLITICS
- **SS362** THE POLITICS OF RACE, GENDER, AND SEXUALITY
- **SS464** HOMELAND SECURITY
- **SS465** TERRORISM: NEW CHALLENGES
- **SS466** ADVANCED TERRORISM STUDIES
- **SS472** THE POLITICS OF DEFENSE POLICY
- **SS493** SENIOR STUDIES IN AMERICAN POLITICS

### Choose One IR/CP Course

- **SS386** MASS MEDIA & AMERICAN POLITICS
- **SS373** THE AMERICAN PRESIDENCY
- **SS379** LEGISLATIVE POLITICS
- **SS362** THE POLITICS OF RACE, GENDER, AND SEXUALITY
- **SS464** HOMELAND SECURITY
- **SS465** TERRORISM: NEW CHALLENGES
- **SS466** ADVANCED TERRORISM STUDIES
- **SS472** THE AMERICAN STATE & THE SOLDIER
- **SS473** AMERICAN FOREIGN POLICY
- **SS481** THE POLITICS OF DEFENSE POLICY
- **SS493** SENIOR STUDIES IN AMERICAN POLITICS

### Choose Three Complementary Support Courses from the Following Fields

<table>
<thead>
<tr>
<th>American Studies</th>
<th>Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Criminal Justice</td>
<td>Policy</td>
</tr>
<tr>
<td>Development</td>
<td>Political Behavior</td>
</tr>
<tr>
<td>Economics</td>
<td>Political Theory</td>
</tr>
<tr>
<td>Finance</td>
<td>Security Studies</td>
</tr>
<tr>
<td>Leadership and Management</td>
<td>Strategy and</td>
</tr>
<tr>
<td>Law and Politics</td>
<td>Statecraft</td>
</tr>
</tbody>
</table>

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“When we assumed the Soldier, we did not lay aside the Citizen; and we shall most sincerely rejoice ... when the establishment of American Liberty, upon the most firm and solid foundations, shall enable us to return to our Private Stations in ... a free, peaceful and happy Country.”

-George Washington

---

**American Politics Counselor**

MAJ Sean McMahon  
LH103, 938-2811  
sean.mcmahon@usma.edu
In the Army, an AP major will provide you the strategic, political, cultural, and policy-making knowledge that Army leaders at all levels from Platoon Leader to Theater Commander need to succeed on the contemporary battlefield.

Graduates are well prepared to serve in interesting assignments including Special Forces, Strategic Intelligence, PSYOPS/Civil Affairs, Foreign Area Officer, Strategic Planner, Embassy Attaché, Congressional Liaison, White House Fellow, and more.

AP prepares you to gain acceptance to various top graduate school programs (MPP/MPA, Ph.D., Law, or MBA). It also serves as effective preparation for federal or state government jobs, running for office, working for think-tanks or lobbyist groups, and a myriad of corporate positions in the private sector.
**Will I Use Economics In The Army?**

Absolutely! Economics is the study of the allocation and optimal use of scarce resources. Furthermore, economics examines the role of individual and organizational incentives in determining the efficient allocation of resources in society. As an economics major, you will understand these important concepts and how they relate to your ability to train, educate, lead, and care for your soldiers. As an Army officer, you will need to manage scarce resources such as time, ammunition, equipment and personnel to efficiently and effectively prepare your unit for combat operations. Economic expertise also provides a foundation for you to understand the importance of economic actors in triggering, perpetuating, and resolving violent conflict in the world.

As Dwight D. Eisenhower once said “No mastery of command can substitute for an intelligent comprehension of the economic goals, the political impulses, the spiritual aspirations that move tens of millions of people. But your greatest opportunity for enduring contribution to America may well be the council table, far removed from war.” - USMA Graduation Address, June 1955

---

**Why Study Economics?**

Economists use a multi-disciplined approach to analyze a variety of real world situations such as the global financial crisis, the role of economics in causing and preventing conflict, and how individuals and companies respond to incentives and make money.

As an economics major, you will develop the ability to analyze situations from many different viewpoints and apply a framework to assist you with making the best decisions.

---

**Economics**

**Department of Social Sciences**

Public Policy
Mathematical Economics
Economic Applications in Finance

**United States Military Academy at West Point**

**Economics of National Security**

[Metrics] [Micro] [Macro]

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**Are you ready to declare Economics as your Major?**

If so, take a picture of the QR code, below, and seek advice from an Econ professor on course selection.

*Contact: MAJ Dallas Gilmore
Lincoln Hall 102, 938-3559
dallas.gilmore@westpoint.edu

Your SS201 instructor can also field questions!*
WHAT WILL MY SCHEDULE LOOK LIKE?
Economics Majors will take 13 courses (plus CY305) during their first, second and third class years. Additionally, any engineering sequence fits well with this major. While many schedules differ, here is a typical schedule.

YEARLING YEAR
SS201/251  SS202
CSC: MA206  CSC: MA367
Science 3  MA206
PY201  EV203
LX203  LX204

COW YEAR
Core Engineering  Core Engineering
Microeconomics  Macroeconomics
Econometrics  Econ Elective
PL300  SS307
CY305  HI302

FIRSTIE YEAR
Integrative Elective  LW403
Econ Elective  Econ Elective
Econ Elective  Econ Elective
Core Engineering  CSC #3
MX400  Economics of National Security

GLOBAL WORK & TRAVEL
The Department of Social Sciences offers a wide range of AIADs. These summer programs allow you to work for Government agencies, non-governmental organizations, US Embassies, or visit places around the world. Past trips and internships include the firms and offices at right:

Toolbox Courses (3)
- Microeconomics (SS382): Examine the market interaction between consumers and producers as each strives to maximize their benefit.
- Macroeconomics (SS388): Study the economic activity of states and nations and the role governments play in promoting prosperity.
- Econometrics (SS368): Quantify, test and employ economic models as they apply to real world situations.

Integrative Elective Course (1 of 3)
- Public Economics (SS387): Use economic models to solve complex governance challenges such as taxation, spending, and redistribution.
- Labor Economics (SS380): Examine the nature and institutions of the labor market, to include military manpower.
- International Economics (SS484): Understand the economic causes and effects of international trade, policies, and money flows.

Elective Courses (5 of 16)
SS364  Game Theory
SS380  Labor Economics
SS385  History of Economics
SS387  Public Economics
SS390  Behavioral Economics
SS394  Financial Statements Analysis
SS461  Economics of Leadership
SS462  Econ of Stabilization & Growth
SS463  Investment Theory & Applications
SS469  Econometrics II
SS470  Money and Banking
SS484  International Economics
SS487  International Political Economy
SS489C  Research Methods
SS494  Principles of Finance
SS498C  Senior Thesis in Economics

Integrative Experience (Capstone)
Economics of National Security (SS477): Examine defense personnel policies, weapon-system acquisition, and defense budgeting issues along with their economic impact on government and society.

Complementary Support Courses (3)
Calculus II (MA206): Further develop optimization skills and prepare for success in the rigorous toolbox courses.
Mathematics for the Social Sciences (MA367): Develop mathematical tools essential for further study in economics.

CSC #3: Choose from a variety of courses across many disciplines, providing breadth of learning based on individual interests.

Contributors: Marcus Juarez, Linda Johnson, Martha Johnson, John L.....
Thinking about graduate school? Our instructors attended great schools before arriving at West Point. Here’s a list:

LTC Babcock - Lumish
Dr. Beiter
Dr. Bennett
COL Chacho
MAJ Duda
CPT Dugan
MAJ Flynn
MAJ Fox
LTC Hurd
MAJ Lapointe
Dr. Margulies Pennsylvania
Kings
Fletcher
Michigan
UC San Diego
Notre Dame
Harvard

MAJ Perlik
Dr. Person
LTC Richardson
CPT Robinson
MAJ Robitaille
LTC Rosol
Dr. Sherlock
MAJ Vaeni
MAJ Watson
CPT White
CPT Wolfley
Fletcher
Yale
Johns Hopkins
Stanford
Columbia
Chicago
Columbia
Fletcher
Cambridge
Harvard
Cornell

Students majoring in International Affairs (IA) study how power operates in the international system. We examine issues of conflict and cooperation, domestic politics, the foreign relations of states, and characteristics of the international system.
What courses do I take?
The IA program has 3 “toolbox” courses followed by a choice of tracks and electives that tailor the 13 course major to your unique interests:

Toolbox Courses for International Affairs:
- SS360 Research Methods
  An introduction to research methods and techniques in political science. This course covers many aspects of research design and developing critical thinking skills.
- SS366 Comparative Politics
  Analyzes the sources of stability or instability in political regimes. This course also examines the conditions that promote either democracy or dictatorship.
- SS386 Political Thought and Ideas
  An introduction to the works of major political thinkers, examining the principal questions of political thought.

Tracks (cadets choose one):
- Security Studies Track and Foreign Policy
  - SS395: International Security
  - SS483 National Security Seminar
- Institutions, Governance, and Development Track
  - SS475: Comp. Political Institutions
  - SS487: International Political Economy

  1 x Track Elective
    - Track #1
  2 x IA Electives
    - IA #1
    - IA #2

  1 x American Politics Elective
    - AP #1

  3 x Complimentary Support Courses
    - CSC#1
    - CSC#2
    - CSC#3

  1 x Capstone

What are some of the International Affairs electives?
- SS372 Politics of China
- SS377 Politics of Europe
- SS378 Great Power Politics
- SS383 Politics of the Middle East
- SS381 Cultural/Political Anthropology
- SS385 Comparative Economic Systems
- SS457 Grand Strategy
- SS464 Homeland Security
- SS465 Terrorism
- SS473 American Foreign Policy
- SS475 Comp. Political Institutions
- SS476 Int. Conflict and Settlement
- SS481 The Politics of Defense Policy
- SS486 State Building
- SS487 International Political Economy
  ... and more!

What non-SOSH electives can I take?
- DS460 Counterinsurgency Operations
- DS470 Military Strategy
- EP363 Political Philosophy
- EP365 Ethics of Military Profession
- EV372 Geography of Asia
- EV487 Environmental Security
- HI372 History of US Foreign Relations
- HI385 War & Its Theorists
- HI391 World Religions
- IT460 Cyber Operations
- LW481 International Law
- LW482 National Security Law
- MG421 Strategic Management
- PL471 Leadership in Combat
  ... and more!

Yuk Fall
- SS357 Advanced IR
- SS202 American Politics
- PY201 Philosophy and Ethics
- SCI #3
- DFL #1

Yuk Spring
- SS366 Comparative Politics
- MA206 Probability and Stats
- EV203 Physical Geography
- SS201 Economics
- DFL #2

Cow Fall
- IA Gateway #1
- SS360 Research Methods
- IA CSC #1
- PL300 Military Leadership
- Engineer #1

Cow Spring
- IA Gateway #2
- SS386 Political Thought
- IA CSC #2
- Engineer #2
- HI302 Military Art

Firstie Fall
- IA Regional Elective
- IA Thematic Elective
- IA CSC #3
- MX400 Officership
- Engineer #3

Firstie Spring
- IA Track Elective
- IA Capstone
- American Politics Elective
- LW 403 Constitutional/Military Law
- CY 305 Cyber Foundations
The Grand Strategy Minor

The Grand Strategy Minor is a dynamic interdisciplinary program that exposes students to the theory and practice of grand strategy. The minor provides students with an academically rigorous foundation to approach problems critically, holistically, and creatively, and equips students with the intellectual tools to grapple with large-scale strategic questions and issues. The minor contains a sequence of five courses across many academic departments and includes an option for international AIAD to a strategically important region. Students in the minor also engage with leading scholars and practitioners.

Why Minor in Grand Strategy?

A Grand Strategy Minor at West Point is challenging and exciting. Studying grand strategy will enhance your ability to think and operate as a strategic leader, beyond the tactical or operational levels, in complex, uncertain environments. These are topics and modes of thought that Army officers are typically not exposed to until far later in their careers. As a Grand Strategy Minor, you will understand and analyze how and why states apply all of the instruments of national power to achieve broad foreign policy goals and promote core strategic interests.

“Grand strategy is a purposeful and coherent set of ideas about what a nation seeks to accomplish in the world, and how it should go about doing so.”
–Hal Brands
COURSE REQUIREMENTS FOR A MINOR IN GRAND STRATEGY

CURRICULUM:


In addition, students in the Grand Strategy Minor choose a Grand Strategy Track, where they focus on a specific regional or disciplinary area of study. Tracks include: Domestic Sources of Grand Strategy; Political Economy; Non-Traditional Challenges; Military History and Strategy; Science, Technology, and Design; East Asia; Europe & Russia; Middle East & Africa; and Latin America.

Grand Strategy Minors also have the opportunity to travel on a three-week for credit international AIAD.

EXAMPLES OF TWO GRAND STRATEGY COURSES:

SS457 Advanced Studies in Grand Strategy: This seminar examines the key theoretical approaches to the discipline and explores how different states throughout history have practiced grand strategy. From a careful examination of strategists and strategies, we will endeavor to extract a set of principles for making grand strategy that will be useful in any future leadership role in which we may be called upon to connect desired ends with available means.

XH397 Grand Strategy Field Study: This summer international AIAD experience applies key grand strategy theories to contemporary strategic issues. Through travel to a region of cutting-edge strategic importance, students will dive deeper into key grand strategy issues and enhance their understanding of grand strategy. Recently, students have traveled to China, Hong Kong, Taiwan, Greece, and key NATO member states.

WHY ADD A MINOR?

Adding a minor to your degree will provide you with additional tools that will contribute to your success as a future leader and enhance your critical thinking and decision-making skills in complex and dynamic environments.

A Grand Strategy Minor will enable you to experience courses within the SOSH Department, even if that is not your academic major. You can also double-count two courses toward your academic minor and major.

Grand Strategy cadets enjoy a private lunch and seminar with Hon. Michèle Flournoy, former Undersecretary of Defense for Policy.
Example Elective Courses

- DS460 Counterinsurgency Operations
- C4550 Cyber Security Engineering
- LW474 Law of Armed Conflict
- SS473 American Foreign Policy
- SS476 Conflict and Negotiation
- SS477 Economics of National Security
- SS483 National Security Seminar
- XH467 Winning the Peace

**Among many others**

Frequently Asked Questions

Can I double count courses toward the minor?
Yes, you are able to double count two courses toward the minor.

Will the minor complement my major course of study?
Yes, cadets minoring in Terrorism Studies represent all majors at the Academy, and the minor is customizable based on your major. The minor consists of five different tracks (4 regional and 1 counterterrorism). These various tracks easily complement any major at the Academy.

What can I expect as a minor in Terrorism Studies?
Cadets minoring in Terrorism Studies are exposed to cutting-edge research produced by CTC faculty; guest lectures by VIP speakers; opportunities to conduct research; participation in exclusive-to-the-minor AIADs; ability to join trip sections to NYC and D.C.; and participation in crisis simulation exercises.

Perks of the Minor

- **Movie Lunches**
  Including discussion with CTC faculty
- **Guest Lectures and Roundtables**
  Past visitors include CIA Director Brennan, GEN Votel, and other senior military and policy leaders
- **Irregular Warfare Group (IWG)**
  Unique engagements focusing on operational aspects of CT and IW
- **D.C. Trip**
  Two-day visit to government agencies involved in CT efforts
- **NYC Trip**
  One-day visit to 9/11 Museum and various NYC law enforcement agencies
- **FDNY Exercise**
  Annual crisis simulation exercise at FDNY’s operations center
- **CTC AIADs**
  3- to 6-week internships with a focus on operational CT engagements
Systems Engineering (SE)
When equipment, people, and operations come together, this system has a mission (system function) and characteristics (system properties) that cannot be seen just by looking at the components. Systems thinking is grounded in identifying, analyzing, and enhancing these system properties to better achieve the objectives of multiple stakeholders.

In short, solving complex, interdisciplinary problems methodically and holistically
**Systems Engineering Major Summary**

Students learn a wide variety of methods and tools used to model and analyze systems. These include:

- **Simulation Modeling**: represents a system in a computer environment to gain insight.
- **Optimization Modeling**: searches for the best possible solution given a set of specified constraints.
- **Stochastic Modeling**: handles the uncertainty of information in order to inform the system outcome risks.
- **Project Management**: a structured process to plan, organize, lead, control resources, and execute tasks to achieve specified goals.
- **Decision Modeling**: decision models that are a composite perspective of several stakeholders with multiple, competing objectives for complex, high-stakes decisions with uncertain information.
- **System Design**: design and engineer a solution to complex problems from concept development and detailed design to system validation and implementation.

The major culminates with an integrative **Capstone** experience working for a real-world client to develop a system solution to a complex problem.

**AIAD Program**

In 2019, 44 sponsors provided 63 CONUS and 6 OCONUS opportunities in DoD and private organizations. Cadets spend 3 weeks applying the Systems Decision Process and other SE fundamentals to real-world problems and return to USMA more adaptable, agile, and inspired to continue their academic work.

**“I think that Systems Engineering is USMA’s secret business degree. If you look at the heavy dose of statistics, decision making, queuing, and other problem-solving classes we get, these are great springboards for the top MBA programs and five years of leading troops in the Army in any Branch”**

For More Information Contact
CPT Phillip Schmedeman
phillip.schmedeman@westpoint.edu
A Systems Engineering Major provides the foundation to obtain three highly regarded professional certifications. Within five years of graduation, you can apply for the Professional Industrial Engineer License, the Project Management Professional certification, and the Associate or Certified Systems Engineering Professional certifications.

Complex systems require the integration of hardware, software, human, and organizational components while accounting for several types of environmental considerations. We offer several 16-course elective tracks that align with one or more of these component types and considerations.

"Generally, the program taught me how to think critically and how to logically solve problems. It proved to be a big help when I went to get my MBA.”

The U.S. Army Operating Concept “Win in a Complex World” states that our advantage over enemies depends highly on our advanced technologies. The Army achieves overmatch through powerful combinations of leadership, skilled Soldiers, and technology. While the development of advanced technologies is important, the integration of these technologies into Army units and training maximizes the potential of any technology. The Systems Engineering major will provide you the opportunity to strengthen your intellect and mental agility by learning how to analyze and design innovative solutions to complex issues that require system solutions.

Systems Engineers must integrate these individual technologies into a cohesive soldier system that can operate in a system of systems within the Army’s Operating Concept.
The Top-Rated EM Program in the United States for 12 of the last 14 years.

The Engineering Management Program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org

Why major in EM?
- Numerous AIAD opportunities
- You choose your Complementary Support Course (Engineering) Track
- Flexible scheduling of courses and electives
- Excellent preparatory major for serving as an officer (complex problem solving, critical thinking, practical applications)
- Widely applicable for leadership careers as an ORSA in the Army, within the business world, industrial engineering settings, and in Government
- EM majors LEAD interdisciplinary teams of engineers
- Studying EM will prepare you for an MBA or Masters Degree in Business Management, Finance, Industrial Engineering, Operations Management, Operations Research, or Systems Engineering
- Excellent foundation for becoming a Professional Engineer and/or Project Management Professional

What will I study in the EM Program?
- Systems thinking
- Basics of sound financial decisions and business operations
- Tools for analyzing and making engineering decisions
- Design and analysis of production operations
- Supply chain design, planning, operation, business processes, and information management systems
- How to plan, monitor, and control a project
- A 3 course complementary engineering sequence of your own choosing
- Elective subject area that interest you

An Engineering Management Major is the only major to provide the foundation to obtain two highly regarded professional certifications. Within five years of graduation you can apply for the Professional Engineer License and/or Project Management Professional certification.

AIAD Program
In 2018, 61 sponsors provided 88 CONUS and 5 OCONUS opportunities in DoD and private organizations. Cadets spend 3 weeks applying the Systems Decision Process and other EM fundamentals to real world problems and return to USMA more adaptable, agile, and inspired to continue their academic development in the major.

AIAD and Capstone Partners

Merging engineering, technology, management, and leadership into solutions for a complex world.

Engineering Management (EM) examines the engineering relationships between the management tasks of staffing, organizing, planning, and financing involved in production, research, and service. EM teaches the concepts and principles of engineering to manage the fundamentals of organizational leadership, personnel management, fiscal management, and systems understanding. EM is a highly relevant program which builds on the traditional roles of systems analysis and basic and applied sciences by emphasizing management functions in a technical setting.

For More Information Contact:
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Society of Women Engineers

AIAD and Capstone Partners
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<tbody>
<tr>
<td>MA205 Calculus II</td>
<td>EM381 Engineering Economy</td>
<td>EM384 Analytical Methods for</td>
<td>EM411 Project Management</td>
<td>EM402 Capstone Design I</td>
<td>EM403 Capstone Design II</td>
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<td>PH206 Physics II</td>
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<td>Engineering Management</td>
<td>CY305 Cyber Foundations</td>
<td>EM420 Production Operations</td>
<td>EM482 Supply Chain Engineering</td>
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<td>SE301 Fundamentals of Engineering</td>
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<td>Management</td>
<td>and Info Management</td>
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<td>Design &amp; Systems Mgmt.</td>
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<td>SE375 Statistics for Engineers</td>
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<td>Math/Science Elective</td>
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**Complementary Support Course Elective Track (Choose 1)**

**Areas of Emphasis (Choose 1 from Each)**

**Project Management in Civil Engineering**
- MC300 Fundamentals of Engineering Mechanics and Design
- CE350 Infrastructure Engineering
- CE450 Construction Management

**Electrical Engineering**
- EE301 Fundamentals of Electrical Engineering
- EE360 Digital Logic with Embedded Systems
- EE362 Introduction to Electronics

**Nuclear Engineering**
- NE300 Fundamentals of Nuclear Engineering
- NE350 Radiological Engineering Design
- NE450 Nuclear Weapons Effects

**Infrastructure Engineering**
- CE350 Infrastructure Engineering
- EV350 Environmental Engineering Technologies
- EV398 Geographical Information Systems

**Decision Science Elective**
- SE302 Fundamentals of Systems Engineering
- SE370 Computer Aided Systems Engineering
- SE385 Decision Analysis

**Math/Science Elective**
- CH102 General Chemistry II
- CH275 Biology
- MA364 Engineering Mathematics

**Engineering Fundamentals**
- EE301 Fundamentals of Electrical Engineering
- EV350 Environmental Engineering Technologies
- CY300 Programming Fundamentals
- CH362 Mass and Energy Balances

**Environmental Engineering**
- EV398 Geographical Information Systems
- IT393 Database Systems
- CH363 Separation Processes
- SM484 System Dynamics Simulation

**Software Engineering**
- MC300 Fundamentals of Engineering Mechanics and Design
- EV481 Water Resources Planning and Design
- IT383 User Interface Development
- CH364 Chemical Reaction Engineering

**Chemical Engineering**
- MC311 Thermal-Fluid Systems I
- IT391 User Interface Development
- CH365 Chemical Reaction Engineering
- CY305 Cyber Foundations

**Cyber/IT Course**
- PH365 Modern Physics
- MA391 Mathematical Modeling
- MA386 Intro to Numerical Analysis
- MA371 Linear Algebra

**Sequences**
- The Engineering Management Program (A Sample EM 8TAP)
AIAD Program

Sponsors within the DoD and private organizations provide Systems Cadets with CONUS and OCONUS AIAD opportunities. Cadets spend 3 weeks applying the Systems Decision Process and other SE fundamentals to real world, undefined problems and return to USMA more adaptable, agile, and inspired to continue their academic development in the major.

SDS graduates build interdisciplinary skills rooted in engineering, management, and social sciences.

This major will prepare SDS graduates for the following types of graduate programs:
- MBA
- Engineering & Management
- Industrial and Systems Engineering
- Business / Data Analytics

Decision Making for Leaders in a Complex and Dynamic World

SYSTEMS AND DECISION SCIENCES (SDS)
The Systems and Decision Sciences (SDS) major centers on the design, management, and decision analysis of tangible and abstract systems in accordance with performance requirements, budget, and schedules. The program combines elements of traditional engineering, systems engineering, finance, decision analysis, and organizational management into a single major. Cadets will learn the methods, processes, and tools needed to understand and conduct meaningful decision analysis in support of complex systems. This major will produce graduates with technical management skills and engineering depth to prepare them for future academic and professional opportunities in a world increasingly dominated by technological change.
Choose 1 of 9 Elective Tracks
(1 track = 3 courses)
Management Science
Project Management
Defense Systems
Personnel Management
Mathematical Modeling
International Affairs
Financial Systems
Cyber Security
Logistics Management
45 unique sponsors with 16 new sponsors providing 88 CONUS and 5 OCONUS opportunities in DoD and private organizations. Cadets spend 3 weeks applying the Systems Decision Process and other SE fundamentals to real world, undefined, problems and return to USMA more adaptable, agile, and inspired to continue their academic development in the major.
Cl’ 25 The Way Ahead

1. **Cadet Individual Exploration**
   - Meet with DACs, instructors, clubs, explore AIADs
   - Meet with CACs to finalize term 22-2
   - Meet with scholarship folks and CEP as desired
   - Targeted opportunities sponsored by majors (weekly themes with club-type events?)

2. **Dean’s Kickoff Brief / Academic Majors Fall Fair**

3. **Dean’s Brief (TBD) / Department Open Houses**
   - Sign up period begins

4. **CACs & their Cadet Academic Off/NCO Briefs w/in Company**

5. **Class of 2025 Academic Majors**

6. **CL25 Majors Selected**

7. **2 MAR 22**

8. **18 JAN 22**

9. **19 OCT**

10. **SEP-Oct-Nov**

11. **SEP**
Increasing Disciplinary/Professional Depth

First-Year Composition (FYC)
EN101 or EN151
Semesters 1-2

Writing-in-the-Core (WiC)
~ Five Core Courses
(2-3 HSS + 2-3 MSE)
Semesters 1-7

Writing-in-the-Profession (WiP)
MX400 + LW403
Semesters 7-8

Writing-in-the-Major (WiM)
One Course in Major
Semesters 3-8

Cadet Writer ePortfolios (CWPs)
VIA BLACKBOARD
Lifelong Access for CDTs

Signature Writing Events (SWEs) in Every WPWP Course

Up-to-date information about the West Point Writing Program (WPWP) always available at westpoint.edu/wpwp
Learn to express yourself more clearly, forcefully, and effectively in one-on-one sessions led by Cadet and Postgraduate Writing Fellows.

Talk about writing assignments for any academic course, including electives and courses in your major, or any professional purpose.

Work on any kind of writing, speaking, or design project—essays, policy or response papers, lab and technical reports, abstracts, executive summaries, memos, PowerPoints, briefings.

Address any stage of the process, from brainstorming and drafting to organizing, revising, editing, and polishing.

The sooner you come in, the more we can do!