

Consistently the **Top Rated EM Program** in the United States.

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



ARMY WEST POINT.
SYSTEMS

ENGINEERING MANAGEMENT



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.

Department of Systems Engineering

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The Engineering Management Program (A Sample EM 8TAP)

Yearling Year		Cow Year		Firstie Year							
Fall	Spring	Fall	Spring	Fall	Spring						
MA205 Calculus II	EM381 Engineering Economy	EM384 Analytical Methods for Engineering Management	EM411 Project Management	EM402 Capstone Design I	EM403 Capstone Design II						
PH 206 Physics II		SE301 Fundamentals of Systems Engineering	CY305 Cyber Foundations	EM420 Production Operations Management	EM482 Supply Chain Engineering and Info Management						
		SE375 Statistics for Engineers	Complementary Support Course 1	Simulation Elective (EM481/SE485/SM484)	Decision Science Elective (SE302/SE370/SES385)						
		Math/Science Elective		Complementary Support Course 2	Complementary Support Course 3						
Complementary Support Course Elective Track (Chose 1)				Areas of Emphasis (Choose 1 From Each)							
Project Management in Civil Engineering				Decision Science Elective		Math/Science Elective					
				SE302 Fundamentals of Systems Engineering		CH102 General Chemistry II					
MC300 Fundamentals of Engineering Mechanics and Design		CH362 Mass & Energy Balances		EE302 Introduction to Electrical Engineering I		EE301 Fundamentals of Electrical Engineering					
CE350 Infrastructure Engineering		CH363 Separation Processes		EE360 Digital Computer Logic		MC300 Fundamentals of Engineering Mechanics and Design					
CE450 Construction Management		CH364 Chemical Reaction Engineering		EE362 Introduction to Electronics		MC311 Thermal-Fluid Systems I					
Environmental Engineering		Infrastructure Engineering		Nuclear Engineering		Software Fundamentals		EM481 Systems Simulation		MA371 Linear Algebra	
								SM484 System Dynamics Simulation		MA376 Applied Statistics	
EV385 Introduction to Environmental Engineering		CE350 Infrastructure Engineering		NE300 Nuclear Reactor Analysis		CY300 Programming Fundamentals		SE485 Combat Modeling		MA386 Introducton to Numerical Analysis	
EV398 Geographical Information Systems		EV385 Introduction to Environmental Engineering		NE350 Radiological Engineering Design		CS393 Database Systems		Cyber/IT Course		MA391 Mathematical Modeling	
EV481 Water Resources Planning & Design		EV398 Geographical Information Systems		NE450 Nuclear Reactor Engineering		IT383 User Interface Development		CY305 Cyber Foundations		PH365 Modern Physics	