Engineering Management: #1
Undergraduate EM Program in the nation

(ASEM 2009-2011)
Engineering Management (EM) examines the engineering relationships between the management tasks of staffing, organizing, planning, and financing, and the human element 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.

LTC Paul Kucik
Program Director
Dr. Tim Elkins
Assistant Professor
LTC Eric Tollefson
Assistant Professor
MAJ Mike Tilton
Assistant Professor
MAJ Josh Gaspard
Instructor
MAJ Isaac Faber
Instructor
MAJ Travis Trammell
Instructor

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Mahan Hall
Bldg. 752, Thayer Road
West Point, NY 10996

All Systems GO!

DEPARTMENT OF SYSTEMS ENGINEERING

Contact MAJ Pierre Han,
Class of 2015 DAC,
for more information!
pierre.han@usma.edu
The EM Program

Spring
- SE301 Intro to Systems Engineering
- EM384 Analytical Methods
- SM440 Complex Systems Architecture
- SE375 Statistics for Engineers
- EM402 Capstone Design 1
- EM420 Production Operations Management
- EM403 Capstone Design 2

Fall
- EM381 Engineering Economy
- Engineer Track Course 1
- AE Elective 1
- Engineer Track Course 2
- AE Elective 2
- Engineer Track Course 3
- AE Elective 3

Spring
- Engineer Track Course 4
- AE Elective 4
- SE400 Professional Engineering Seminar

Fall
- Engineer Track Course 5
- AE Elective 5
- Engineer Track Course 6
- AE Elective 6
- Engineer Track Course 7
- AE Elective 7

Spring
- Engineer Track Course 8
- AE Elective 8
- Engineer Track Course 9
- AE Elective 9
- Engineer Track Course 10
- AE Elective 10

- Information & Decision Systems
  - SE370 Computer Aided Systems Engineering
  - SE381 Decision Analysis
  - EM460 Principles of Information Systems

- Simulation
  - EM441 Systems Simulation
  - SM404 System Dynamics
  - SE495 Combat Modeling

- Personnel & Organization Management
  - EM382 Human Resource Management
  - PL479 Leading Organizations through Change

- Finance
  - SE384 Financial Accounting
  - SS494 Principles of Finance

- Engineering Solving
  - Civil
    - MC300 Fundamentals of Engineering Mechanics
    - MC304 Mechanics of Materials
    - MC311 Thermal-Fluid Systems
  - Electrical
    - EE352 Intro to Electrical Engineering
    - EE360 Digital Computer Logic
    - EE362 Intro to Electronics
  - Environmental
    - EV301 Environmental Science for Engineers
    - EV385 Intro to Environmental Engineering
    - EV481 Water Resources Planning and Design
  - Mechanical
    - MC300 Fundamentals of Engineering Mechanics
    - MC306 Dynamics
    - MC311 Thermal-Fluid Systems
  - Nuclear
    - NE300 Nuclear Reactor Analysis
    - NE355 Advanced Nuclear Reactor Design
  - General
    - MC300 Fundamentals of Engineering Mechanics
    - EE301 Fundamentals of Electrical Engineering
    - EE381 Fundamentals of Electrical Engineering
  - Information & Decision Systems
    - SE370 Computer Aided Systems Engineering
    - SE381 Decision Analysis
    - EM460 Principles of Information Systems

- Managing
  - AE Elective 1
  - AE Elective 2
  - AE Elective 3
  - AE Elective 4

- "EM provided me with a versatile skill set that I have relied upon in my military and civilian careers."

- What sets it apart is its emphasis on ‘thinking big picture.’"