

What is Systems Management?

Systems Management is a new program unique to the Department of Systems Engineering (DSE). Systems Management (SM) is the study of defense acquisition, design, and management systems in accordance with performance requirements, budget, and schedules. This means you will study the engineering relationships between the management tasks of staffing, organizing, planning, and financing, as well as the human element in production, research, service and Army organizations. This highly relevant, contemporary program builds on the traditional roles of the basic applied sciences and systems analysis while emphasizing management functions in a technical setting.

Why Study Systems Management?

Simple – Demand! There is increasing demand for trained professionals that not only understand military doctrine and tactics, but also the management of organizational resources. You will develop a unique skill set that shapes you to be intellectually capable and professionally motivated to meet the challenges of transforming our military through the acquisition process.

Systems Management prepares you for a successful career in ANY organization.

In today's high-tech Army, the systems manager oversees the acquisition of large-scale, complex systems crucial to operational readiness. Systems Management enables the systems manager to focus on the overall design of a system to ensure that it will meet the needs of all stakeholders including operators, maintainers, and commanders. You will learn to act as an intermediary between decision makers with operational requirements, and the users who provide solutions to the problems. As such, your study will touch on the technical, business, communication, and leadership aspects necessary to serve in any professional discipline.

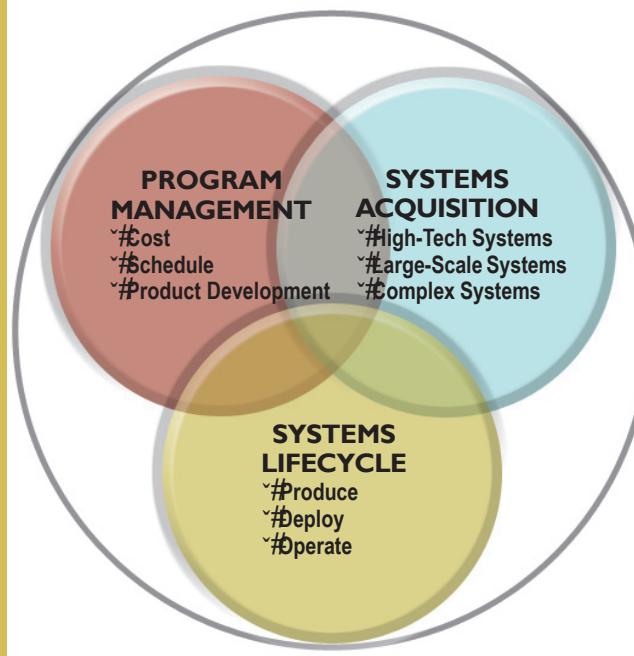
Technology – Experience and Training

You will gain valuable experience utilizing state-of-the-art technology to solve problems. The laboratories in our department use the same technology as the Army and business world today. DSE is the only undergraduate program in the country offering this technology. Your ability to apply this technology will be far beyond that of your peers.

Capstone

Your Systems Management studies will culminate with a Capstone course in which you will apply your professional and technological skills to address a problem for a real world client. Current potential clients include PEO Soldier (which focuses on individual Soldier combat equipment and protection), Booz Allen Hamilton, Army Research Lab, the Engineering Research and Development Center and other military organizations.

SYSTEMS MANAGEMENT



SYSTEMS MANAGEMENT MAJOR



Department of
Systems Engineering

Class of 2009

United States Military Academy
West Point, New York 10996

August 2006

The Systems Management Major combines specific core courses with traditional engineering, systems engineering, finance and organizational management courses. Through these courses, you will develop an understanding of how to apply engineering concepts and principles to engineering related projects, management issues, and technology-laden organizations. To major in Systems Management, you must successfully complete the following requirements:

1. Complete the twenty-seven (27) core courses as specified in the Redbook.

2. Complete the following Systems Management core courses:

SE301	Foundations of Engineering Design & Systems Management
SE375	Statistics for Engineering
EM384	Analytical Methods for Engineering Management
SM401	Systems Management Capstone
SM421	Systems Acquisition Management
EM381	Engineering Economy
EM411	Project Management
EM420	Production Operations Management
SS394	Financial Accounting

3. Complete one of the following Decision Systems electives:

SE370	Computer Aided Systems Engineering
SE382	Decision Support Systems
SE385	Decision Analysis

4. Complete one of the following Simulation electives:

SE481	Systems Simulation
EM484	Dynamic Systems Analysis
SE485	Combat Modeling

5. Complete one of the Management electives:

PL472	Cross-cultural Organizational Behavior
PL381	Human Resources Management
PL385	Organizational Systems, Theory, and Design
PL398	Leadership Theory and Development
PL479	Leading Organizations Through Change
MG380	Marketing

6. Complete one Approved Elective course from the list below, or complete an additional elective from the Decision Systems, Simulation, or Management field:

IS 383	Fundamentals of Information Systems
MA364	Engineering Mathematics
MA371	Linear Algebra
MA381	Nonlinear Optimization
MA391	Mathematical Modeling
SE490	Visiting Professor's Course
SE491	Applied Research Project in Systems Engineering
SS494	Principles of Finance

Note: No Thermo, Juice or Advanced Math courses. The SM major requires a total of 40 courses allowing cadets to pursue a minor (or possibly another major) without overloading a semester. A minor for the Class of 2009 consists of 3 additional courses.

To Learn More About Systems Management
Visit us! The Systems Management Program is in the Department of Systems Engineering - 4th Floor, Mahan Hall. Come by the department or call 845-938-2701 and ask for an academic counselor.

Email us as listed below:
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Access information about Systems Management on the Department of Systems Engineering website at:
<http://www-internal.se.usma.edu>
or www.se.usma.edu

Systems Management

Serve Your Nation ... Build a Career Foundation

Real World Clients

Real World Problems

Real World Application

This field of study prepares you for a career with the Department of Defense or DoD contractors such as UPS, Boeing, Lockheed Martin, Raytheon and many, many more. As a Systems Management major, you can expect to acquire skills commensurate to those which are exhibited not just in the Army, but in any professional field. A Systems Management degree prepares you to be a leader in project management, quality engineering, systems analysis, systems engineering, or acquisition management.

Grad School Preparation

SM provides the foundation for advanced degrees in, Business (MBA), Engineering, Network Systems Management and more. A Systems Management degree balances the technical, business, communication and leadership aspects necessary to serve the Army and Nation by teaching you design, engineering, testing and evaluation, production, operations and support of quality systems.

Awards and Honor Societies

- ✓ Excellence in Systems Management Award
- ✓ ABET Accreditation Pending for 2008
- ✓ Membership opportunity with the Professional Management Institute (PMI).

ABET Accreditation Pending