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

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.
We are the Army’s Systems Engineering Department educating cadets and developing faculty to lead teams that develop and implement high value solutions to challenging problems in a dynamic, uncertain, and technologically complex world.

**SDS graduates are able to:**
- Analyze global supply and demand of goods and its sustainability
- Understand the migration of refugees due to climate change
- Apply system dynamics to complex operational environments
- Understand the dynamic complexity involved with sustainable management of organizations
- Conduct data analytics and geospatial analysis of the battlefield to help decision makers

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### Systems and Decision Sciences (SDS)

Interested in pursuing an academic field that looks at the world from a global perspective and enables you to study topics such as global sustainability, and business/engineering problems? Consider majoring in SDS, where you can quantitatively and qualitatively study the world’s dilemmas from varying perspectives.

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<td>EV203/PH205/CH101</td>
<td>Science Depth Elective</td>
<td>EM 411: Project Management</td>
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### Flexible Electives to Suit Your Interests

**SDS Core Classes (required)**

- **Science Depth (Choose 1)**
  - Biology I, Physics II, Chemistry II

- **Mathematics Depth (Choose 1)**
  - Engineering Statistics or Math Elective

**Complementary Support Electives (Choose 3 out of 8)**

- Ex: MG390 Negotiation for Leaders
- MG395 Fundamentals of Accounting
- SS364 Game Theory
- PY305 Logical Reasoning

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

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[https://westpoint.edu/academics/academic-departments/systems-engineering](https://westpoint.edu/academics/academic-departments/systems-engineering)