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

Systems Engineering: Designing Integrated Solutions to Complex Problems

Systems Engineering (SE) is an interdisciplinary approach to solving complex system problems through the development of integrated systems solutions. It focuses on defining customer needs and documenting requirements early in the development cycle then proceeding with designing, validating and implementing innovative solutions while considering both the business and technical needs of all stakeholders. Systems Engineers lead team efforts that integrate various disciplines through a structured development process that begins with initial concepts and leads ultimately to system production and successful operations.

YOUR TEAM!

LTC Steven Henderson
Program Director

Dr. Roger Burk
Associate Professor

LTC Thomas Saltysiak
Assistant Professor

Mr. Jim Carr
Instructor

MAJ Jeff Demarest
Instructor

MAJ Pierre Han
Instructor

MAJ Kristin Saling
Instructor

Join Systems!
Contact us today or visit our website to learn more!

www.westpoint.edu/se

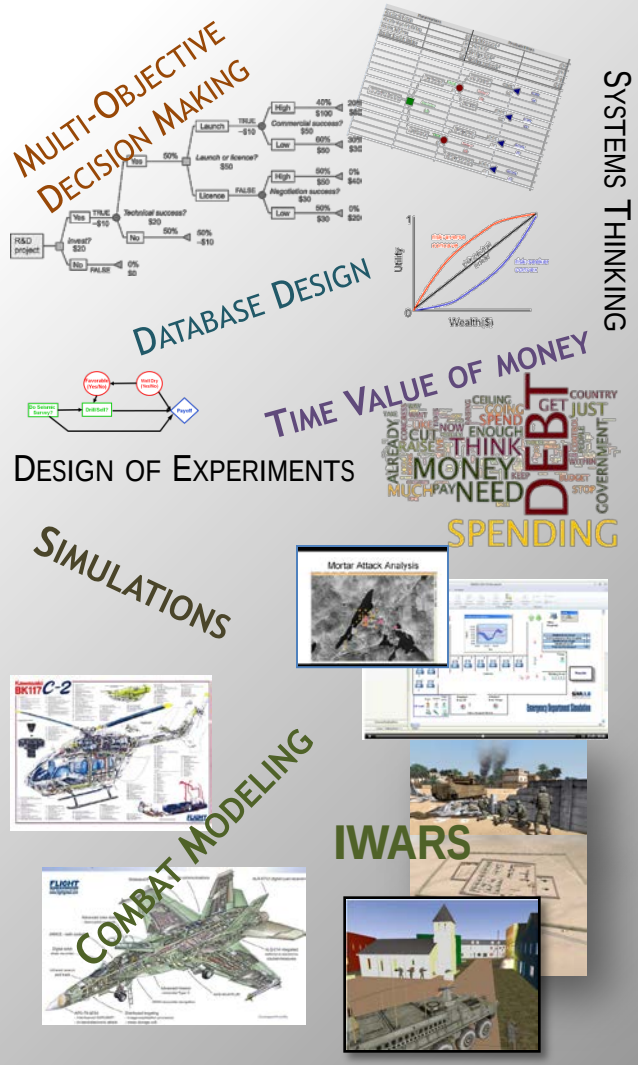
Find us on

All Systems GO!

Mahan Hall

Bldg. 752, Thayer Road
West Point, NY 10996

SYSTEMS ENGINEERING



DEPARTMENT OF SYSTEMS ENGINEERING

Scan this image to visit our website

INCREDIBLE AIAD OPPORTUNITIES

Honors Thesis Program

Systems Engineering

Real World Problems. Real World Clients. Real world Applications.

The SE Program

Spring
- **SE301** Intro to Systems Engineering

Fall
- **SE387** Deterministic Models
- **SE375** Statistics for Engineers
- **MC300** Fundamentals of Engineering Design
- Sub-Discipline Elective 1

Spring
- **SE388** Stochastic Models
- **SE385** Decision Analysis
- **SE370** Computer Aided Systems Engineering
- Sub-Discipline Elective 2

Fall
- **SE402** Capstone Design 1
- **EM411** Project Management
- **MC311** Thermal Fluids 1
- Simulation Elective
- Simulation Electives: **EM481** Systems Simulation; **SM484** System Dynamics; **SE485** Combat Modeling

Spring
- **SE403** Capstone Design 2
- **EM420** Production Operations Management
- **EE301** Fundamentals of Electrical Engineering
- Sub-Discipline Elective 3
- **SE400** Professional Engineering Seminar

ABET Accredited!

Critical thinking!

Prepare yourself to be a *problem solver* in service to the Army and to our nation.

Named "Best Job in America" by CNN Money Magazine!

SE Club at Disney

Lectures, lunches, and trips with the SE Club

Year-Long Capstone

Present the results of a year-long immersive research effort at one of many conferences, including the GEN Keith Memorial Capstone Conference hosted at USMA. A great start on professional publications!

And the winner is. . .

Honor Societies

Order of the Engineer

Omega Rho

& more...

Sub-Disciplines

Human Factors	PL386 Experimental Psychology	PL391 Sensation / Perception	PL392 Cognitive Psychology	PL394 Anthropometrics	PL475 Human Computer Interaction	PL485 Human Factors Engineering
Simulation Systems	EM481 Systems Simulation	SM484 System Dynamics	SE485 Combat Modeling	EV398 Geographic Information Systems	MA476 Mathematical Statistics	MS385 Sustaining the Force
Mathematical Systems	EM381 Engineering Economy	ME366 Vector Calculus	MA371 Linear Algebra	MA381 Nonlinear Optimization	MA386 Intro to Numerical Analysis	
	MA388 Sabermetrics	MA391 Mathematical Modeling	MA476 Mathematical Statistics	MA490 Applied Probability		
Information Systems	CS301 Fundamentals of Computer Sciences	IT305 Theory and Practice of Military IT Systems	CS350 Database Design	EE360 Digital Computer Logic	EV398 Geographic Information Systems	
	IS450 Principles of Distributed Engineering	IT383 User Interface Development	IT460 Information Warfare	SM482 Supply Chain Management		

Or... design your own!!