Earn a master’s degree, a certificate, or take a graduate class at a distance.

Engineering Management – ME
• Engineering Entrepreneurship*
• Engineering Management*
• Leadership & Management*
• Managing Applied Research in Technology*
• Performance Excellence in Technology Management*
• Project Management*
• Quality Systems for Product & Process Engineering*
• Six Sigma Statistical Practitioner*
• Technology Ventures & Product Management*

Dual degrees are available in Engineering Management with each of the disciplines listed above.

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* Indicates availability of graduate certificate

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ASEN 5010: Spacecraft Attitude Dynamics & Control
ASEN 5012: Mechanics of Aerospace Structures
ASEN 5014: Linear Control Systems
ASEN 5016: Space Life Sciences
ASEN 5022: Dynamics of Aerospace Structures
ASEN 5024: Nonlinear Control Systems
ASEN 5050: Spaceflight Dynamics
ASEN 5051: Introduction to Fluid Mechanics
ASEN 5053: Rocket Propulsion
ASEN 5060: Satellite Geodesy
ASEN 5070: Intro to Statistical Orbit Determination 1
ASEN 5090: Intro to Global Navigation Satellite Systems
ASEN 5148: Spacecraft Design
ASEN 5158: Space Habitat Design
ASEN 5168: Remote Sensing Instrumentation Design
ASEN 5210: Remote Sensing Seminar
ASEN 5215: Descriptive Physical Oceanography
ASEN 5227: Math for Aerospace Engineering Sciences 1
ASEN 5245: Radar/Remote Sensing
ASEN 5307: Engineering Data Analysis Methods
ASEN 5327: Computational Fluid Mechanics
ASEN 5335: Aerospace Environments
ASEN 5417: Numerical Methods for Differential Equations
ASEN 5426: Neural Systems and Physiological Control
ASEN 5436: Brains, Minds, and Computers
ASEN 5519: Commercial Spaceflight Operations & Communications
ASEN 5519: Unmanned Aircraft Systems in the National Airspace System
ASEN 6010: Advanced Spacecraft Dynamics & Controls
ASEN 6013: High Speed Propulsion
ASEN 6014: Spacecraft Formation Flying
ASEN 6020: Optimal Trajectories
ASEN 6021: Viscous Flows
ASEN 6024: Nonlinear Control Systems
ASEN 6037: Turbulent Flows
ASEN 6060: Advanced Astrodynamics
ASEN 6080: Statistical Orbit Determination 2
ASEN 6107: Nonlinear Finite Element Methods
ASEN 6159: Celestial Mechanics
ASEN 6519: Lidar Remote Sensing
ASEN 6519: Orbital Debris
ASEN 6519: Small Unmanned Aircraft System Guidance, Navigation, & Control
ASEN 6519: Space Vehicle Guidance & Control
ASEN 6519: Uncertainty Quantification

Civil Engineering continued...
CVEN 5836: Utility Management Policy
CVEN 7511: Computational Finite Inelasticity & Multiphase Mechanics

Computer Science
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CSCI 5239: Advanced Computer Graphics
CSCI 5273: Network Systems
CSCI 5312: Health Informatics
CSCI 5352: Network Analysis and Modeling
CSCI 5417: Information Retrieval
CSCI 5446: Chaotic Dynamics
CSCI 5448: Object Oriented Analysis & Design
CSCI 5454: Design & Analysis of Algorithms
CSCI 5502: Data Mining
CSCI 5525: Compiler Construction Tools
CSCI 5535: Fundamental Concepts of Programming Languages
CSCI 5582: Artificial Intelligence
CSCI 5593: Advanced Computer Architecture
CSCI 5606: Principles of Numerical Computation
CSCI 5608: Software Project Management
CSCI 5622: Machine Learning
CSCI 5646: Numerical Linear Algebra
CSCI 5654: Linear Programming
CSCI 5673: Distributed Systems
CSCI 5753: Computer Performance Modeling
CSCI 5809: Computer Animation
CSCI 5817: Database Systems
CSCI 5828: Foundations of Software Engineering
CSCI 5832: Natural Language Processing
CSCI 5839: User Centered Design
CSCI 6268: Foundations of Computer & Network Security
CSCI 7000: Advanced Computer Animation
CSCI 7000: Automata for Cyber-Physical Systems
CSCI 7000: Big Data Analytics: Systems, Algorithms, & Applications
CSCI 7000: Computer Storage Systems
CSCI 7000: Datacenter Scale Computing
CSCI 7000: Ethical Hacking
CSCI 7000: Foundations of Cyber-Physical Systems
CSCI 7000: Games for Health
CSCI 7000: Intro to Robotics
CSCI 7000: Systems & Algorithms for Massive Data Applications
CSCI 7154: Complexity of Computation
CSCI 7717: Database Systems: Information Systems Technology

Civil Engineering
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CVEN 5788: Computational Mechanics for Geomaterials
CVEN 5822: Geographical Info Systems for Civil & Environmental Systems
CVEN 5835: Nonlinear Analysis of Framed Structures
Electrical Engineering
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ECEN 5004: Global Navigation Satellite System (GNSS) Receiver Architecture
ECEN 5004: Spatial Statistics & Remote Sensing
ECEN 5008: Uncertainty in Control
ECEN 5011: Physiological Engineered Control Systems
ECEN 5015: Nanophotonics
ECEN 5016: Quantum Mechanics
ECEN 5017: Conventional and Renewable Energy Issues
ECEN 5017: Power Electronics for Electric Drive Vehicles
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ECEN 5032: Communications Networks
ECEN 5032: Wireless LANs
ECEN 5038: Control Systems Analysis
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ECEN 5139: Formal Verification of VLSI Systems
ECEN 5154: Computational Electromagnetics
ECEN 5156: Physical Optics
ECEN 5254: Remote Sensing Signals & Systems
ECEN 5264: Electromagnetic Absorption, Scattering & Propagation
ECEN 5355: Principles of Electronic Devices
ECEN 5418: Automatic Control Systems 1
ECEN 5423: Chaotic Dynamics
ECEN 5448: Advanced Linear Systems
ECEN 5458: Sampled Data & Digital Control Systems 1
ECEN 5523: Compiler Construction Tools
ECEN 5533: Fundamental Concepts of Programming Languages
ECEN 5553: Parallel Processing
ECEN 5555: Principles of Energy Systems & Devices
ECEN 5593: Advanced Computer Architecture
ECEN 5603: Software Project Management
ECEN 5612: Noise & Random Processes
ECEN 5616: Optoelectronics System Design
ECEN 5623: Real-Time Embedded Systems
ECEN 5626: Active Optical Devices
ECEN 5645: Intro to Optical Electronics
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ECEN 5673: Distributed Systems
ECEN 5682: Theory & Practice of Error Control Codes
ECEN 5737: Adjustable-Speed AC Drives
ECEN 5753: Computer Performance Modeling

Electrical Engineering continued...
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ECEN 5797: Intro to Power Electronics
ECEN 5807: Modeling & Control of Power Electronic Systems
ECEN 5817: Resonant & Soft Switching Techniques in Power Electronics
ECEN 5821: Neural Systems & Physiological Control
ECEN 5827: Analog IC Design
ECEN 5831: Brains, Minds, & Computers
ECEN 7002: Foundation of Networks

Engineering Management
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EMEN 5825: The New Venture Experience
EMEN 5830: Fundamentals of Systems Engineering
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Mechanical Management
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MCEN 5023: Solid Mechanics 1
MCEN 5041: Advanced Fluid Mechanics
MCEN 5228: Numerical Methods
MCEN 5228: Optimal Design
MCEN 5228: Sustainable Energy
MCEN 6228: Advanced Turbulence
MCEN 6228: Uncertainty Quantification

Renewable Energy
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ENST 5002: The Business of Renewable Energy
ENST 5100: Renewable & Sustainable Energy Seminar

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Telecommunications
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TLEN 5460: Telecommunications Systems Lab
TLEN 5462: Advanced Telecommunications Laboratory 2
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TLEN 5510: Wireless & Cellular Communications
TLEN 5520: Wireless LANs
TLEN 5530: Applied Network Security
TLEN 5540: Network Security Lab
TLEN 5550: Computer & Network Security
TLEN 5560: Wireless Systems Lab
TLEN 5570: IP Network Design
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