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Energy Academic Group

Energy Academic Group Publications

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Energy Academic Group Academics

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ENERGY ACADEMIC GROUP

Energy Goals Academics Executive Ed Research Faculty Seminar Resources

Academics

NPS Energy Academic Group > Academics

ACADEMIC PROGRAMS

Our Energy curricula respond to a SECNAV mandate to construct a world-class Energy education program at the Naval Postgraduate School. It was his intent that NPS explore and research means of enhancing national security through a reduction of the demand for energy; expansion of energy supply options; and consideration of energy consumption and the associated costs and logistics challenges in all decisions about strategic planning, structuring, equipping and posturing the force. To achieve these energy goals, the nation needs a cadre of energy professionals knowledgeable in Energy science, technology, policy, management and analysis. This is the need that NPS' Energy programs, both graduate degree programs and academic certificates, were created to fulfill.

GRADUATE DEGREE PROGRAM

Four graduate degree programs at NPS offer Energy specialty tracks. These Energy specialty tracks are built around a common set of Energy core courses, along with Energy electives that allow students some measure of freedom to personalize the program of study to his/her specific interests. These defense-focused tracks are designed to provide officers and DoD civilians an advanced education in interdisciplinary approaches to problem-solving, analysis and technical expertise within the Energy realm.

As the Energy tracks are embedded within four existing degree programs, the graduate will earn a degree in a traditional area of study, with a specialty in Energy. Select a curriculum of interest below for more information on that program's requirements.

NPS Energy Curricula

- [Operations Analysis](#)
- [Naval/Mechanical Engineering](#)
- [Electronic Systems Engineering](#)
- [Financial Management](#)

ACADEMIC CERTIFICATES

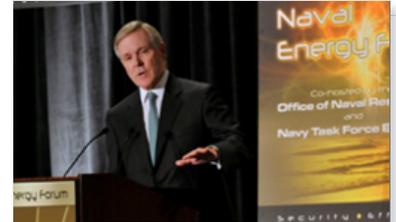
NPS also offers an academic certificate in Energy. The Academic Certificate Program in Energy is designed to support the SECNAV's Energy goals, in educating those who are resident at NPS but are not directly detailed into the Energy programs, or those who do not have the opportunity to attend NPS. Students can work toward the certificate while in residence at NPS or soon, via distance learning.

The Certificate requires successful completion of a minimum of 3-4 graduate courses (minimum 12 credit hours), of which at least 9 credit hours must be at the graduate level. The core course of all certificates is PH-3700 Fundamentals of Energy. It considers the basics of Energy technology as well as exposes students to the wider range of issues within Energy. Other courses are elective, but should fall within one of three focus areas: Energy (General); Energy (Science & Technology); or Energy (Policy & Analysis). Students may select from the relevant courses available during the quarter(s) of enrollment. Each student's required course work is developed individually under the direction of the cognizant Academic Associate.

Students may begin their course of study in any academic quarter. **Courses from which students may choose, include:**

Science & Technology (S&T)

- EC3110 - Electrical Energy for Defense: Present and Emerging Technology
- EC3240 - Renewable Energy at Military Bases and for the Warfighter
- EN3000 - NPS Defense Energy Speakers Seminar Series
- MEXXXX - Combustion



"This energy-focused master's degree program will target both the current and future leadership of the Navy and Marine Corps. NPS will ensure that energy is a fully-integrated awareness into strategy, tactics and operations. As a result, NPS students will guide the Navy and the nation toward a better, more secure energy future."
 – Secretary of the Navy, Ray Mabus

QUICK LINKS

How to Apply

To begin the application process, use the link below. There you will find:

- Application Form
- Contact Information
- Requirements
- and more...

[NPS Academics Applications.](#)

Announcements

Announcing a New Energy Course in Spring 2014:

EC3110: Electrical Energy: Present and Emerging Technologies (3-2)

Topics will include present and emerging technologies related to electrical energy:

- generation
- distribution, and
- consumption.

[Download the Flyer \(pdf\)](#) for more information.

- ME4420 - Advanced Power & Propulsion
- MS4410 - Advanced Energy Materials
- MS481X - High Temperature Materials for Energy Production and Conversion
- MS48XX - Electrochemical Energy Conversion and Storage

Policy & Analysis (P&A)

- MN4970 - Energy Economics
- OS3007 - Operations Research for Energy Systems Analysts
- NS4053 - Energy Policy & Strategy
- OA4613 - Energy Logistics in Warfare Operations
- GBXXX - Fundamental Issues in Energy Technology Implementation
- SE3700 - Defense Energy Systems
- EN3000 - NPS Defense Energy Speakers Seminar Series

Course offerings labeled with XX or XXX represent courses in development.

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