

# GRADUATE CERTIFICATE IN ENERGY SYSTEMS MANAGEMENT

The certificate program in energy systems management is designed for professionals in the engineering, business management and related disciplines who are required to manage organizations faced with complex and rapidly changing energy requirements in the United States and throughout the world. The program provides advanced education across the full spectrum of subjects central to the practice of energy management, including not only the policy, management and high-level technical understanding underlying challenges in the energy management area, but also the statutory and regulatory framework in which they are embedded, as well as social and policy considerations that are critically important in modern society.

Students in the graduate certificate program learn about alternative energy generation and energy resources management and open up new opportunities in a rapidly growing job sector as energy auditors, energy analysts, energy project managers and related positions. Students explore the latest information in energy efficient building design, microgrid, renewable energy development and advanced materials research while learning the economics of energy, the art of managing energy projects, and analytical methods of analyzing the viability and feasibility of energy projects.

GW's proximity to the federal government, major energy organizations and high-tech firms in the Washington area allows certificate students to integrate their academic study with real-world practical experience and exposure to decision makers and top players in the energy management field.

## REQUIREMENTS

The following requirements must be fulfilled: 12 credits, including 9 credits in required courses and one 3-credit elective course.

Code	Title	Credits
<b>Required</b>		
EMSE 6200	Policy Factors in Environmental and Energy Management	
EMSE 6260	Energy Management	
EMSE 6285	Analytical Tools for Energy Management	
<b>Elective</b>		
One course (3 credits) selected from the following:		
EMSE 6225	Air Quality Management	
EMSE 6230	Hazardous Waste Management and Cleanup	
EMSE 6235	Water Quality Management	