

ENERGY TRANSITION MANAGEMENT MINOR

Banner Code: ETMG

Academic Advisting

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Administration

- Jeremy Plotnick, Director of Minor Programs

There are increasing pressures on both public and private sector organizations throughout the world to accelerate the transition from fossil fuels to cleaner sources of alternative energy. This transition involves the active management of multiple technical, organizational, and financial factors, while facing rapidly changing technology and an uncertain policy environment. The 18-credit Energy Transition Management Minor is designed to prepare students with the knowledge and skill sets required to effectively participate in this important activity and ultimately take leadership positions in moving our economy and society to a cleaner and more sustainable future.

Admissions & Policies

Policies

At least eight credits must be unique to the minor and not applied toward any other major, minor, or concentration. Students must achieve a grade of C or better in each course that is applied toward the minor.

For policies governing all minors, see AP5.3.4 Minors (<http://catalog.gmu.edu/policies/academic/undergraduate-policies/#text>). The School of Business residency requirement for this minor supersedes the university requirement: at least nine credits must be earned at Mason.

Requirements

Minor Requirements

Total credits: 18

Required Courses

Code	Title	Credits
ECE 311	Energy Infrastructure, Market, and Management	3
EVPP 361	Introduction to Environmental Policy	3
MGMT 303	Principles of Management	3
Select one from the following: 3		
BUS 210	Business Analytics I (Mason Core) (http://catalog.gmu.edu/mason-core/)	
CEIE 100	Environmental Engineering around the World (Mason Core) (http://catalog.gmu.edu/mason-core/)	
CONF 330	Community, Group, and Organizational Conflict Analysis and Resolution	

PHYS 131	Introduction to Renewable Energy	
Total Credits		12

Electives

Code	Title	Credits
Select two courses from the following two tracks: ¹		6

Change Management Track

The Change Management track provides students with the tools needed to facilitate the process of organizational change required for energy transition to take place. These changes can include modification to the organization's structure, business model, culture, and technologies employed. Students can hone their ability to work collaboratively and resolve disagreements in a productive manner.

MGMT 313	Organizational Behavior	
MGMT 413	Organizational Development and Management Consulting	
MGMT 463	Negotiations in Organizations	
MGMT 464	Teamwork and Interpersonal Skills	
MGMT 471	Competitive Strategy	

Infrastructure and Sustainable Energy Track

The Infrastructure and Sustainable Energy track provides students with knowledge about the alternative energy sources and the technical aspects of modern electric power systems that are the ultimate destination of any energy transition program. The energy transition process is at its core an engineering challenge, and students in this minor would be advised to gain a comprehensive understanding of what is required to make this transition a reality. Additionally, this track will help students understand the complex economic, security, and policy trade-offs that accompany energy transition initiatives.

CEIE 355	Environmental Engineering and Science	
ECE 411	Electricity Sector Engineering, Economics, and Regulation	
ECE 417	Smart Grid and Cyber Security	
ECON 435	Economics of Energy	
EVPP 432	Energy Policy	
PHYS 331	Physics of Renewable Energy	

Total Credits		6
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¹ Students may select these courses from a single track or a combination of the two tracks.