

NEW ENERGY MINOR

A minor in New Energy will enhance students' degrees across engineering, science, and management. As an interdisciplinary minor, the minor leverages curriculum and collaboration across several departments. Many companies and industries in the United States and around the world are moving to advance a clean energy and low-carbon future to reduce and eventually eliminate the negative impact that fossil fuels and inefficient use of traditional biomass have on health and the environment. This minor will create awareness and promote the use of solar, wind, tidal, hydro, electric energy, and hydrogen.

Code	Title	Credit Hours
MECH-427	Energy and the Environment	4
Choose Three		12
CHME-460	Sustainable Engineering Design: Energy and Environment	
PHYS-376	Photonics and Optoelectronics	
EE-342	Electrical Machines	
EE-346	High Voltage Generation and Measurement Techniques	
EE-421	Energy Storage Systems with EV Applications	
EE-424	Power Electronics and Applications	
EE-427	Semiconductor Device Fundamentals	
EE-446	Vector Control of AC Electric Machines	
EE-410	eMobility System Analysis & Control	
or MECH-424	Vehicle Electrification Overview	
MECH-425	Sustainable Energy: Analysis and Modeling	
MECH-426	Fuel Cell Science and Engineering	
MECH-428	Bio and Renewable Energy	
MECH-629	Thermal Management Systems	
Total Credit Hours		16