

ENERGY SYSTEMS MINOR

Minor Code: ENY

Engineering Technology Department

Technology Building 126

(716) 878-6017

engineeringtechnology.buffalostate.edu/ (<https://engineeringtechnology.buffalostate.edu/>)

The Energy Systems minor is designed for a specific group of students enrolled in Mechanical Engineering Technology and Electrical Engineering Technology, Smart Grid or Electrical Engineering Technology, Electronics. Energy Systems minor is multidisciplinary minor combining electrical and mechanical (thermal) aspects of the energy field.

Energy Systems minor will be available for physics majors or any other majors with proper background in mathematics and physics.

Program Requirements

Electrical Engineering Technology, Smart Grid or Electrical Engineering Technology, Electronics Students

Code	Title	Credit Hours
Required Courses (18 credit hours)		
ENT 311	THERMODYNAMICS	3
ENT 312	FLUID MECHANICS	3
ENT 411	HEAT TRANSFER	3
ENT 481	RENEWABLE DISTRIBUTED GENERATION AND STORAGE	3
ENT 482	SMART GRID FROM SYSTEMS PERSPECTIVE	3
ENT 491	OPERATIONS AND MANAGEMENT OF MODERN GRID	3
Total Credit Hours		18

Mechanical Engineering Technology Students

Code	Title	Credit Hours
Required Courses (18 credit hours)		
ENT 371	ELECTRIC MACHINES	3
ENT 471	POWER SYSTEMS I	3
ENT 472	POWER SYSTEMS II	3
ENT 481	RENEWABLE DISTRIBUTED GENERATION AND STORAGE	3
ENT 482	SMART GRID FROM SYSTEMS PERSPECTIVE	3

ENT 491	OPERATIONS AND MANAGEMENT OF MODERN GRID	3
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Total Credit Hours 18

Prerequisite Courses

Prerequisite course for EET students is ENT 301, which is a required course for all Engineering Technology majors. All students take it as part of their major no matter if they will enroll in the minor or not. Therefore, it is not a hidden prerequisite.

Prerequisite course for MET students is ENT 331, which is a required course for all Mechanical Engineering Technology majors. All students take it as part of their major no matter if they will enroll in the minor. Therefore, it is not a hidden prerequisite.