

Associate of Applied Science: Energy Systems Wind Engineering Technology

(2 Years)

Applications for this program are not currently being accepted.

Objective:

Graduates will be able to: (1) solve technical problems typical of those encountered in the energy systems wind engineering technology discipline by using critical thinking skills, current technology, and principles of mathematics and applied science; (2) work and communicate effectively in multidisciplinary teams in both industrial and academic settings; and (3) understand current professional issues and the need to pursue lifelong learning.

Students must register concurrently for the lab course associated with each theory course.

Code	Title	Credits
Required Courses:		
ESET 0100	Engineering Technology Orientation	1
ESET 0121	Basic Electricity and Electronics	4
ESET 0121L	Basic Electricity and Electronics Laboratory	3
ESET 0122	Electrical Systems and Motor Control Theory	3
ESET 0122L	Electrical Systems and Motor Control Theory Laboratory	1
ESET 0123	Mechanical Power Transmission	2
ESET 0123L	Mechanical Power Transmission Laboratory	1
ESET 0141	Applied Mathematics I	4
ESET 0142	Applied Mathematics II	4
ESET 0150	Introduction to Wind Energy Systems	2
ESET 0150L	Introduction to Wind Energy Systems Laboratory	1
ESET 0212	Electrical Systems Documentation and Standards	1
ESET 0231	Microcontrollers	2
ESET 0231L	Microcontrollers Laboratory	1
ESET 0232	Electrical Machines	3
ESET 0232L	Electrical Machines Laboratory	3
ESET 0233	Electrical Power Systems	3
ESET 0233L	Electrical Power Systems Laboratory	3
ESET 0240	Pumps	3
ESET 0240L	Pump Applications Laboratory	3
ESET 0243	Hydraulic and Pneumatic Power	2
ESET 0243L	Hydraulic and Pneumatic Power Laboratory	2
ESET 0247	Wind Energy Control Systems	2
ESET 0247L	Wind Energy Control Systems Laboratory	1
TGE 0159	Internship Strategies	1
General Education courses ¹		

COMM 1101	Fundamentals of Oral Communication ²	3
MATH 1153 or MATH 1170	Statistical Reasoning ² Calculus I	3-4
PHYS 1101 & 1101L	Elements of Physics and Elements of Physics Laboratory ²	4
Additional General Education courses		6
Total Credits		72-73

¹ See General Education Requirements (minimum 15 credits) for A.A.S. Degree at the start of the College of Technology section of the catalog.

² Contributes to a General Education requirement.