

# WIND ENERGY PROGRAMS

## WIND ENERGY

### Associate of Applied Science

66-68 credit hours

The Associate of Applied Science in Wind Energy is designed with a specific focus on workforce pre-apprenticeship and apprenticeship training to provide students with the skills necessary to pursue a career in the industry.

Upon completion of the degree students will be able to:

- Demonstrate safety practices common to the wind industry.
- Demonstrate job hazard assessment and resolution to hazards.
- Demonstrate knowledge of climbing, rescue, and emergency medical techniques and procedures necessary for the wind industry.
- Communicate effectively and work collaboratively in a variety of wind related industrial settings.
- Demonstrate knowledge of electrical equipment and operation.
- Demonstrate knowledge of mechanical equipment and operation.
- Apply safety procedure in the industrial environment including those applicable to hand & power tools.
- Demonstrate knowledge of mechanical systems that of wind turbines.
- Demonstrate capability to fixed programs related to electrical circuits.
- Apply understanding of electronic controls and security of mechanical/electronic software.

*Any student who is ineligible for state, national, or industry licensure or certification is ineligible for entry into this program.*

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#### Institutional and Related Requirements – 10 hours

ENGL 1110 – Composition I (3)

FYEX 1110 – First-year Seminar (3)

MATH 1216 – Preparatory Algebra (4)

*Note: If institutional/related requirements are waived, additional elective courses will be needed to meet the minimum hours required for the degree.*

#### Program Requirements – 41 hours

ACCT 1110 – Business Application in Accounting (3)

BUSA 1130 – Business Professionalism (3)

CNST 110 – Basic Electrical Circuits (3)

EMS 100 – HeartSaver/CPR First Aid (1)

EMS 103 – Wilderness First Aid (1)

ENGL 2210 – Professional & Technical Communication (3)

IS 260 – SCADA Cyber Security Certificate (6)

OSH 105 – Regulations – Construction (1)

OSH 107 – Electrical Safety Training (1)

OSH 110 – Confined Space/Lock Out (1)

WIND 100 – Introduction to Wind Energy (3)

WIND 102 – Wind Turbine Climber Training (3)

WIND 103 – Wind Turbine Fall Protection (3)

WIND 121 – Wind Turbine Mechanical Systems (3)

WIND 204 – Introduction to Hydraulics (3)

WIND 219 – Wind Turbine Operation (3)

#### New Mexico General Education Curriculum (NMGEC) –

**15-17 hours (as itemized below)**

##### Communications – 3 hours

ENGL 1120, 2210; or COMM 1130, 2120, 2150.

##### Mathematics – 4 hours

MATH 1130, 1220, 1230, 1510, 1520.

##### Science – 4 hours

**Choose one** from\* ANTH 1120C; BIOL 1110/L, 1133C, 1215/L, 2110/L, 2210/L, 2310/L, 2610/L; CHEM 1215/L, 1225/L; GEOL 1120/L.

*\*see course description for Math prerequisite*

##### Social and Behavioral Sciences – 3 hours

CJUS 1110, 2140, 2360; ECON 1110, 2110, 2120; GEOG 1130; POLS 1120; PSYC 1110, 2110, 2120, 2130, 2140, 2260; SOCI 1110, 2310.

##### Flexible Three – 3 hours

**Choose one courses** from:

Any course from the NMGEC and/or BUSA 1110

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