

# ALTERNATIVE ENERGY TECHNOLOGY - WIND TURBINE MAJOR, ASSOCIATE OF APPLIED SCIENCE

Curriculum Code #6350

Effective May 2017

Division of Engineering, Business and Information Technologies (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies>)

The wind turbine technology program encompasses a wide range of electrical, mechanical and computer skills required to compete in the emerging alternate energy- wind turbine industry. Individuals will be prepared for a range of analysis, installation and maintenance assignments associated with the wind turbine industry. Typical job responsibilities will include design, testing, R&D, service, maintenance and installation assignments. Lorain County Community College has articulation agreements with colleges and universities including programs offered by Lorain County Community College's University Partnership.

Course	Title	Hours
<b>First Year</b>		
<b>Fall Semester</b>		
ALET 111	INTRODUCTION TO ALTERNATIVE ENERGY	3
ELCT 111	ELECTRICAL CIRCUITS I	3
ENGL 161	COLLEGE COMPOSITION I	3
MTHM 121	TECHNICAL MATHEMATICS I <sup>1</sup>	4
SDEV 101	COLLEGE 101 <sup>2</sup>	1
TECN 111	TECHNICAL PROBLEM SOLVING	3
Hours		17
<b>Spring Semester</b>		
AETC 121	PROGRAMMABLE LOGIC CONTROLLERS <sup>1</sup>	3
ALET 112	ALTERNATIVE ENERGY MECHANICAL SYSTEMS <sup>1</sup>	4
HLED 159	WILDERNESS AND REMOTE FIRST AID <sup>1</sup>	2
TECN 121	FLUID POWER	3
ENGL 164	COLLEGE COMPOSITION II WITH TECHNICAL TOPICS <sup>1</sup>	3
MTHM 122	TECHNICAL MATHEMATICS II <sup>1</sup>	3
Hours		18
<b>Second Year</b>		
<b>Fall Semester</b>		
ALET 220	WIND TURBINE TECHNOLOGY I <sup>1</sup>	3
ELCT 121	DIGITAL ELECTRONICS <sup>1</sup>	4
ELCT 227	NATIONAL ELECTRIC CODE <sup>1,3</sup>	2
PEFT 185	ROPES COURSE	1
PHYC 150	GENERAL PHYSICS I <sup>1</sup>	4
Arts and Humanities Elective		3
Hours		17

<b>Spring Semester</b>		
AETC 241	INSTRUMENTATION AND CONTROL <sup>1</sup>	3
ALET 221	WIND TURBINE TECHNOLOGY II <sup>1</sup>	3
ELCT 211	ELECTRICAL POWER AND DEVICES <sup>1</sup>	4
Social Science Elective		3
Hours		13
Total Hours		65

- <sup>1</sup> Indicates that this course requires a prerequisite.
- <sup>2</sup> A student must register for the orientation course when enrolling for more than six credit hours per semester or any course that would result in an accumulation of 13 or more credit hours.
- <sup>3</sup> Indicates a student may substitute from this list: work-based learning (ALET 287, ALET 288 and/or ALET 289) for the equivalent number of credit hours for this course.

## Arts & Humanities Electives

ARTS 243G	ART HISTORY I	3
ARTS 244G	ART HISTORY II	3
ARTS 245G	WORLD ART	3
ARTS 246	HISTORY OF PHOTOGRAPHY	3
ARTS 254G	HISTORY OF AMERICAN ARCHITECTURE	3
ENGL 251	AMERICAN LITERATURE I	3
ENGL 252	AMERICAN LITERATURE II	3
ENGL 253G	INTRODUCTION TO WORLD LITERATURE	3
ENGL 254G	INTRODUCTION TO HISPANIC LITERATURE	3
ENGL 255	INTRODUCTION TO FICTION	3
ENGL 257G	INTRODUCTION TO POETRY	3
ENGL 259G	INTRODUCTION TO DRAMA	3
ENGL 261G	MASTERPIECES OF BRITISH LITERATURE I	3
ENGL 262G	MASTERPIECES OF BRITISH LITERATURE II	3
ENGL 266G	AFRICAN AMERICAN LITERATURE	3
ENGL 269G	INTRODUCTION TO SHAKESPEARE	3
HUMS 151G	INTRODUCTION TO HUMANITIES	3
HUMS 261G	INTRODUCTION TO GREAT BOOKS: ANCIENT WORLD TO THE RENAISSANCE	3
HUMS 262G	INTRODUCTION TO GREAT BOOKS: EARLY MODERN TO THE 20TH CENTURY	3
HUMS 271G	INTRODUCTION TO MYTHOLOGY	3
HUMS 274	FILM APPRECIATION	3
MUSC 262G	MUSIC AS A WORLD PHENOMENON	3
PHLY 165	BIOETHICS	3
PHLY 262G	INTRODUCTION TO EASTERN PHILOSOPHY	3
RELG 181G	INTRODUCTION TO WORLD RELIGIONS	3
RELG 261	RELIGION IN AMERICA	3
RELG 262G	INTRODUCTION TO EASTERN PHILOSOPHY	3
THTR 151G	INTRODUCTION TO THEATER	3

## Social Science Electives

HSTR 151G	CIVILIZATION I	3
HSTR 152G	CIVILIZATION II	3

HSTR 161	UNITED STATES I	3
HSTR 162	UNITED STATES II	3
HSTR 171G	THE WORLD SINCE 1900	3
HSTR 252G	WOMEN IN WORLD HISTORY	3
HSTR 267G	AFRICAN AMERICAN HERITAGE	3
PLSC 156	AMERICAN NATIONAL GOVERNMENT	3
PSYH 151	INTRODUCTION TO PSYCHOLOGY	3

Program Contact(s):

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For information about admissions, enrollment, transfer, graduation and other general questions, please contact your Advising and Counseling Team (<https://www.lorainccc.edu/admissions-and-enrollment/advising-and-counseling>). (<https://www.lorainccc.edu/admissions-and-enrollment/advising-and-counseling>)

**More program information can be found on our website.**  
(<https://www.lorainccc.edu/engineering/alternative-energy/associate-of-applied-science-in-alternative-energy-technology-wind-turbine>)