

# ALTERNATIVE ENERGY TECHNOLOGY - SOLAR TECHNOLOGY MAJOR, ASSOCIATE OF APPLIED SCIENCE

Curriculum Code #6355

Effective May 2017

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

The solar technology program encompasses a wide range of electrical, mechanical and computer skills required to compete in the emerging alternate energy – solar technology 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>		
ALET 112	ALTERNATIVE ENERGY MECHANICAL SYSTEMS <sup>1</sup>	4
ALET 113	OSHA 10 CONSTRUCTION SAFETY	1
ELCT 227	NATIONAL ELECTRIC CODE <sup>1</sup>	2
ENGL 164	COLLEGE COMPOSITION II WITH TECHNICAL TOPICS <sup>1</sup>	3
ENGR 120	INTRODUCTION TO ENGINEERING	1
MTHM 122	TECHNICAL MATHEMATICS II <sup>1</sup>	3
Hours		14
<b>Second Year</b>		
<b>Fall Semester</b>		
ALET 223	PHOTOVOLTAIC SYSTEMS <sup>1</sup>	4
ELCT 121	DIGITAL ELECTRONICS <sup>1</sup>	4
ELCT 233	ELECTRONIC DEVICES I <sup>1,3</sup>	4
PHYC 150	GENERAL PHYSICS I <sup>1</sup>	4
Hours		16
<b>Spring Semester</b>		
AETC 241	INSTRUMENTATION AND CONTROL <sup>1</sup>	3
ALET 222	SOLAR THERMAL SYSTEMS <sup>1</sup>	4

Arts and Humanities Elective	3
Social Science Elective	3
Hours	13
Total Hours	60

- <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: CMNW 101, CMNW 141, CMNW 145 or work-based learning (ALET 287, ALET 288 and/or ALET 289) for the equivalent number of credit hours for this course.

## Arts and 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 271G	INTRODUCTION TO MYTHOLOGY	3
HUMS 274	FILM APPRECIATION	3
MUSC 261G	MUSIC 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 151G	COMPARATIVE POLITICS	3
PLSC 156	AMERICAN NATIONAL GOVERNMENT	3
PLSC 157G	CONTEMPORARY WORLD PROBLEMS	3
PSYH 151	INTRODUCTION TO PSYCHOLOGY	3
SOCY 151G	INTRODUCTION TO SOCIOLOGY	3

Program Contact(s):

**Duncan Estep**

440-366-7016

destep@lorainccc.edu

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-solar-technology>)