

Systems Service

Math, Science & Engineering Technologies Division

For Program Questions:

Dan Burklo
Dean of Math, Science &
Engineering Technologies
(419) 267-1394
dburklo@northweststate.edu

For Admissions Questions:

NSCC Admissions Office
(419) 267-1320
admissions@northweststate.edu



www.northweststate.edu

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The Higher Learning Commission
(312) 263-0456

www.ncahigherlearningcommission.org



Systems Service

Associate of Applied Science in Alternative Energy Technology

Due to rising fuel costs and the depletion of our earth's natural resources, there is an increasing interest in alternative energy technologies. Regional and national legislation is requiring a shift to alternative and renewable energy sources. The manufacturing core is shifting toward solar, biomass, wind and other alternative energy technologies. As industry shifts, a large workforce will need developed and/or retrained for new jobs; new jobs in the area of alternative energy technology.

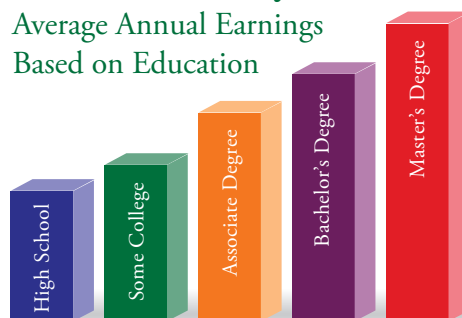
This program will prepare individuals for different technical careers in alternative energy related fields. This may include the specification and installation of various alternative energy systems or the maintenance and repair of these systems. This program will also be a path to transfer into similar or related four-year engineering technology programs.

Career Outlook

Currently there is a large amount of research in alternative energy technology. With the innovation of this technology there will be a need for individuals who can install, service, maintain and repair these systems in machines and building structures.

Education Pays

Average Annual Earnings
Based on Education



2013-2014

Based on data from the Bureau of Labor Statistics

Program Sequence

<i>First Semester</i>		<i>Credits</i>
+ AET100	Introduction to Alternative Energy	3
+ EET121	DC Circuits	3
ENG111	Composition I	3
MET100	Introduction to Engineering Technologies	2
+ MET110	Print Reading and Sketching	3
MTH109	College Algebra	3
		17

<i>Second Semester</i>		<i>Credits</i>
+ AET110	Energy Audit	3
+ EET122	AC Circuits	3
ENG112	Composition II	3
IND103	Applied Geometry and Trigonometry	3
	Communications Elective	3
		15

<i>Third Semester</i>		<i>Credits</i>
CAD111	CAD I	4
+ IND131	Industrial Pipefitting	3
+ INT120	HVAC-R I	3
PHY101	Principles of Physical Science	4
+	Alternative Energy Technology Elective	4
	Social/Behavioral Science Elective	3
		21

<i>Fourth Semester</i>		<i>Credits</i>
+ AET290	Alternative Energy Capstone	4
+ INT221	HVAC-R III Heating Systems	3
+	Alternative Energy Technology Elective	4
+	Technical Elective	3
	Humanities Elective	3
		17

Total Program Credit Hours **70**

+ Students must attain a minimum grade of “C” in all courses with a ‘+’ to progress in the program and to graduate.

Course curriculum is subject to change. Please consult with an Academic Advisor for up-to-date information.

