

Systems Design

Engineering Technologies Division

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Systems Design

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.

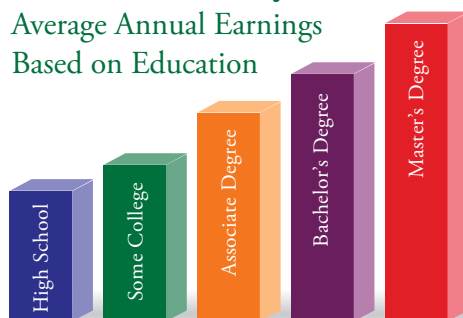
This program will prepare individuals for different technical careers in alternative energy related fields. This may include the design of systems incorporating various alternative energies or the design and specification of components related to the AET systems. This program will also be a path to transfer 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 design, specify and incorporate these systems into machines and building structures.

Education Pays

Average Annual Earnings
Based on Education



2011-2012

Based on data from the Bureau of Labor Statistics

Program Sequence

First Semester

		<i>Credits</i>
ENG111	Composition I	3
MTH109	College Algebra	3
MET100	Introduction to Engineering Technologies	2
+ MET110	Print Reading and Sketching	3
+ IND120	Industrial Electricity I	3
+ AET100	Introduction to Alternative Energy	3
		17

Second Semester

		<i>Credits</i>
ENG112	Composition II	3
MTH112	Trigonometry	3
PHY251	Physics Mechanics and Heat	4
+ AET110	Energy Audit	3
	Communications Elective	3
		16

Third Semester

		<i>Credits</i>
+ MET235	Statics	3
+ MET234	Strengths of Materials	3
+ AET200	Sustainable Building Design	3
+ CAD213	CAD III	4
+	Alternative Energy Technology Elective	4
		17

Fourth Semester

		<i>Credits</i>
+	Alternative Energy Technology Elective	4
+ AET290	Alternative Energy Capstone	4
	Humanities Elective	3
	Social/Behavioral Science Elective	3
	Science Elective	4
		18

Total Program Credit Hours **68**

+ 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.

