

Systems Design

Math, Science & 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.

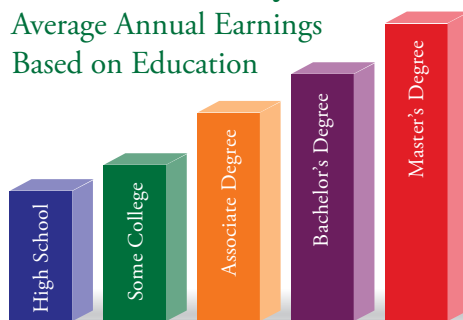
This program will prepare individuals for different technical careers in alternative energy related fields. This may include the design of systems incorporating various alternative energies or the design and specification of components related to the AET systems. This program will also be a path to transfer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



2013-2014

Based on data from the Bureau of Labor Statistics

Program Sequence

First Semester

		<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

Second Semester

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

Third Semester

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

Fourth Semester

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

