

CAREER STUDIES CERTIFICATE (221-820-04)

Energy Management Systems Installer

Purpose: This curriculum is designed to prepare students for managing, implementing and commissioning energy systems in today's society of rapidly changing, energy related industries and residential structures. Energy management students study conventional energy generation and distribution, as well as alternative energy with wind, solar (PV), solar (thermal), geothermal, energy efficiency, and energy production systems to develop an understanding of the challenges and opportunities in developing a renewable energy economy.

Program Objectives: Students will gain the knowledge to obtain entry level positions as alternative energy system installers and technicians.

The coursework prepares students for further study in energy management systems and advanced technology. Upon successful completion of a specific concentration, students will be prepared for the corresponding North American Board of Certified Energy Practitioners (NABCEP) installer certification exam.

Admission Requirements: Applicants must meet the requirements for admission to credit-level coursework established by the college.

Developmental Requirements: Students who do not demonstrate proficiency on the placement test in the following mathematical units will be required to complete developmental courses: MTE 1, 2, 3, 4, 5, and 6.

It is strongly recommended that developmental education requirements be completed as soon as possible.

CURRICULUM AND OTHER REQUIREMENTS

ENERGY MANAGEMENT AND OTHER RELATED COURSES	CREDITS
ELE 130* Electricity	4
ELE 176* Intro to Alternative Energy.....	3
SAF 127 Industrial Safety	2
BLD 110..... Introduction to Construction.....	3
BLD 111 Blueprint Reading and Building Code	3
MEC 155 Mechanisms	2
MTH 115* Technical Mathematics.....	3
E' Energy Managemt Tech Concentration...	7
Total Minimum Credits for Certificate	27

¹ An Energy Management Concentration must be selected from the following options:

- Photovoltaic Installer must take
 - ELE 147 Electrical & Power Systems
 - ELE 177 Photovoltaic Energy Systems
- or-
- Wind Energy Installer must take
 - ELE 147 Electrical & Power Systems
 - ELE 178 Wind Turbine Technology
- or-
- Solar and Geo Thermal Installer must take
 - ENE 105 Solar Thermal Active & Passive Technology
 - MEC 205 Piping and Auxiliary Systems

* This course has a requisite. Requisites for all courses are listed in the course description section at the back of the catalog.

SUGGESTED SCHEDULE

FIRST YEAR	SPRING
FALL	BLD 110
ELE 130	BLD 111
ELE 176	MEC 155
MTH 115	
SAF 127	

SECOND YEAR

FALL
Energy Management Elective
Energy Management Elective