When are classes offered?
Classes are offered during the day, evening, and weekend, depending on demand.

How do I enroll in the program?
You may begin by taking one of the courses in the program. There are many entry points, such as

- CONST 110 – Construction Safety
- ELECT 120 – Direct Current Circuits
- ENSYS 120 – Introduction to Energy Systems,
- ENSYS 125 – Building Envelopes and Equipment
- ENSYS 130 – Introduction to Photovoltaic Systems.

Talk to the area Chair, John Henry at 925-969-2377 or email at jwhenry@dvc.edu

For more information contact the or visit www.dvc.edu/programs

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MISSION STATEMENT Diablo Valley College is passionately committed to student learning through the intellectual, scientific, artistic, psychological, and ethical development of its diverse student body. Diablo Valley College prepares students for transfer to four-year universities; provides career and technical education; supports the economic development of the region; offers pre-collegiate programs; and promotes personal growth and lifelong learning.

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What is the energy systems program?

Students learn design criteria, installation, safety, maintenance and troubleshooting as well as the societal and economic considerations of a variety of energy systems, such as solar, wind, hydro, geothermal, hydrogen, and other emerging technologies. They also learn to use a variety of tools and analysis techniques in energy efficiency, energy assessment, building performance and measurement, and energy auditing. Gain both theoretical knowledge and practical hands-on experience in a variety of energy areas.

Subjects covered include:
- Basic knowledge of sustainable concepts, conservation, resource consumption, and impacts.
- Principles of construction safety (OSHA)
- Overview of traditional and renewable energy sources
- Energy measurement and assessment in buildings
- Building mechanical, electrical, and energy code requirements
- Demand side management and load shifting
- Work activity sequencing and scheduling
- Energy site selection, sizing, and assessment
- Basic electrical principles and practices related to energy
- Installation of a variety of energy systems
- Heat transfer – applied thermodynamics
- Electromechanical interfaces
- Energy Efficient lighting and appliances
- Cost and environmental effectiveness of energy technologies

What can I do with a energy systems certificate?

New regulations and our understanding of building science drive us to build new and adapt existing homes and businesses to use energy wiser. The job market in sustainable energy and construction is growing and new job opportunities are emerging as the landscape evolves.

This program prepares students for a wide variety of careers, depending on their skills and experience.

Graduates have gone into positions such as:
- Solar installers and maintenance technicians
- Energy auditor / assessor
- Energy system inspector
- Energy system design and sales consultant
- Energy assessors
- Project or program manager
- Water system auditors or consultants
- Air quality technicians
- HVAC or other building trades assistant or apprentice
- Clean transportation technician
- Pollution prevention and environmental Remediation Technician

Graduates just entering this field should expect to earn between $15 and $25 per hour. Many who enter this program already work in architecture, construction, engineering, electrical, plumbing, environmental, or similar professions and after completion have significantly expanded career options and salaries may range from $50,000 to well over $100,000 depending previous skills and experience.

“This is an ideal program for those who have a passion for sustainability, energy, the environment, or addressing climate change.”

John Henry, professor and program lead