

ELECTRONIC TECH: POWER (ETP)

ETP 1400 Distributed Electric Power Generation and Storage

Credit Hours: 3

An introduction to the background, essential theory, principles and future of "Distributed Electric Power Generation and Storage". Topics include: photovoltaic system components and configurations, panel assembly, introduction to micro-turbines, theory of operation, installation, operation, checkout, maintenance, troubleshooting, and repair.

ETP 1401 Alternative/Renewable Energy Technologies

Credit Hours: 3

An introduction to the background, essential theory, principles and future of power generation and storage. Topics include photovoltaic system components and configurations, panel assembly, introduction to micro turbines, theory of operation, installation, checkout, maintenance, troubleshooting and repair. Solar water and pool heating systems will also be covered.

ETP 1420 Solar Thermal Technologies

Credit Hours: 3

An introduction to the background, essential theory, principles and future of "Solar Thermal Technologies". Topics include: solar fundamentals, solar water heating systems and components, systems installation, check-out and start-up procedures, solar water heating troubleshooting, solar pool heating, and code and safety issues.

ETP 1550 Alternative Fuels and Electric Vehicle Technologies

Credit Hours: 3

An introduction to the background, essential theory, principles and future of "Alternative Fuels and Electric Technologies". Topics include: history of the automobile, world energy supply and demand for transportation, bi-fuel vehicles, liquid gas, bio-diesel, electric technology, electric vehicle components, fuel cell safety, and other sources of energy.