

# CERTIFICATE IN SOLAR ENERGY

(29 hrs. min.)

CIP: 15.0101

Sustainable Technologies Center, (505) 428-1641

This certificate provides students with the skills required to design, plan, install and troubleshoot photovoltaic solar electric energy systems. The certificate will also include a foundation in AC and DC electricity, grid tie applications, and an introduction to solar thermal systems. Students will acquire skills needed to seek entry- and mid-level positions within the solar industry or apply solar energy skills and knowledge to the green building sector. The certificate prepares students for the North American Board of Certified Energy Practitioners (NABCEP) certification exam.

## **CORE REQUIREMENTS: (23 HRS.)**

ENVR 112	Introduction to Sustainable Energy Technologies (3)
ENVR 113	Instrumentation and Controls Lab (3)
ENVR 122	Energy Efficiency and Management (3)
ENVR 114	Electrical and Mechanical Fundamentals (4)
ENVR 221	Design and Installation of Photovoltaic Systems I (3)
ENVR 222	Design and Installation of Photovoltaic Systems II (3)
ENVR 225	Design and Installation of Solar Hot Water Systems (3)
ENVR 227	Introduction to the National Electrical Code (1)

## **RELATED REQUIREMENTS: (6 HRS.)**

MATH 115	Technical Mathematics (3)
ENVR 299	Cooperative Education (3)

NOTE: See "College Success Course Requirement" on Page 10.

**TOTAL 29 CREDITS MIN.**