

Sustainability Across the Curriculum

Course Facilitators

Deborah Green

Deborah has taught environmental science at Valencia, mostly as an adjunct instructor, for 24 years before becoming the college's first director of sustainability in November 2011. She is responsible for compiling and submitting data toward the college's rating in the national Sustainability Tracking and Research System (STARS). Promoting *Sustainability Across the Curriculum* is part of this effort.

In addition to teaching, Deborah spent 12 years in the water use efficiency field and co-authored a water conservation guidebook for utilities. She is a LEED Accredited Professional from the United States Green Building Council (USGBC). In 1979 Deborah earned her Ph.D. in entomology from the University of California, Berkeley, where she participated in some of our nation's earliest recycling efforts. An advocate of collaborative learning and hands-on approaches, she converted her environmental science class to the online format, while retaining group work and a required field trip. In addition to her new role as director of sustainability, Deborah also teaches a field class called *Central Florida Habitats* at the Winter Park Campus.

Andy Ray

[Andy](#) is professor of building construction and technology, and program chair for the building construction, civil-surveying engineering, and drafting and design technology A.S. degree programs. Andy earned his Bachelor of Science degree from Western Michigan University in industrial technology, and worked as a roofer, remodeler, and architectural drafter in Houston, Texas before earning his master's degree in architecture from Texas A&M University in 1986. After interning in Fort Myers, Texas and passing the architectural licensing exam, he founded Array Design Architects in Orlando in 1991. While teaching architectural design and construction courses at Valencia as an adjunct, he was construction manager for Habitat for Humanity and built his own house. In 2000, Andy became a full-time faculty member and infuses sustainability concepts into his own classes.

Andy has been awarded the 2012-2013 Hubbard Construction Company's [Endowed Chair](#) in Technical and Engineering Programs. Having served as co-chair of the college's Sustainability Committee since its formation in 2005, he plans to use endowed chair funds to work with his students on projects around West Campus's [Lake Pamela](#).

Deb Hall

Deb is professor of electronics engineering technology ([EET](#)) within the division of architecture, engineering, and technology on West Campus. As a past endowed chair recipient, she has received renewable energy related training and funding for hands-on projects that she integrates within her various Science Technology Engineering and Math (STEM) community outreach activities and EET courses, including her *Introduction to Alternative and Renewable Energy* course. Deb's experiences with renewable energy capture student interest, and allow her to communicate that careers in technology and engineering can better the world - a key to attracting more females to pursue technology and engineering careers.

Deb is coordinating with Give Kids the World Village in Kissimmee, Florida and a local Central Florida photovoltaic (PV) installer to install a small scale PV system (donated by One World Sustainable and Valencia College) to help power one of its buildings. Her engineering technology students have been a part of this project. Deb was a 2012 [Learning Day Team Leader](#) at Give Kids the World, is a Service Learning Committee member, and serves the college as a West Campus faculty senate member.

Jerry Reed

Jerry is programmer analyst in the information technology (IT) department and also an associate professor of technology, having taught a variety of computer technology courses at Valencia over the past decade. He has more than 20 years of experience in many facets of IT, and has presented at two STEMTech conferences and at multiple industry forums. Jerry has recently earned the [digital professor certification](#) and has been an [associate professor](#) for three years.

With his students, he utilizes project-based learning. Currently, he is working with his students to set up electronic monitoring of the duck boxes that were put up near Lake Pamela on West Campus. Jerry is also collaborating with several other professors to install a large bat house on West Campus, with electronic monitoring.