



Wayne
County
Community
College
District

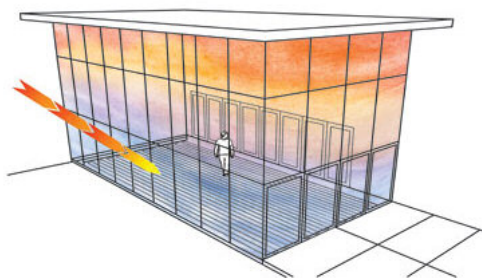
PAY

Most individuals who work with sustainable building and design go on to become an architect or work in the architectural field. The median annual wage for architects was \$73,090 in May 2012.

JOB OUTLOOK

Employment of architects is projected to grow 17 percent from 2012 to 2022, faster than the average for all occupations. Current demographic trends will result in a greater need for architects, especially for those who understand sustainability and LEED certification. Those who distinguish themselves with their creativity should have the best job opportunities.

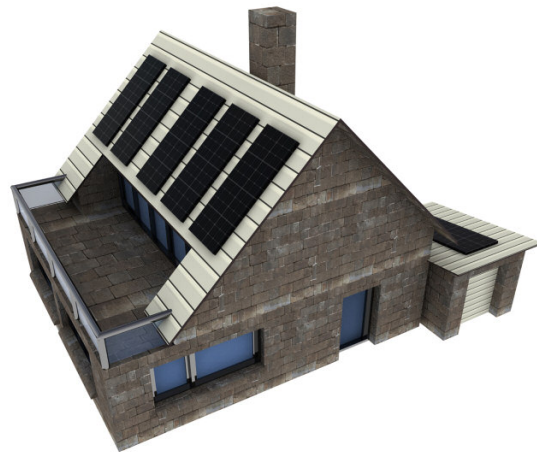
Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2014-15 Edition, Architects, on the Internet at <http://www.bls.gov/ooh/architecture-and-engineering/architects.htm>



Sustainable Environmental Design: Buildings and Sites

ABOUT THE PROGRAM

The Sustainable Environmental Design Buildings and Sites College Certificate is designed to prepare students for careers that integrate sustainable construction applications in a variety of business, allied health and industrial environments. Students will gain knowledge on principles of sustainable practices in alternative energy, business, construction, energy usage and natural resource management.



This curriculum prepares students to fully understand the Leadership in Energy and Environmental Design (LEED) green building rating system which is the standard for environmentally sustainable construction. The increased expansion of green careers include: Green Engineering and Renewable Energy Production, Sustainable Urban Planning and Design, Sustainable Interior Design, and Sustainable Building Construction.

WHAT DO SUSTAINABLE BUILDING AND DESIGN TECHNICIANS DO?

Sustainable Building and Design attempts to reduce the collective environmental impact during the production of building components during the construction process, as well as during the life cycle of the building (heating, electricity use, carpet cleaning etc.) This design practice emphasizes efficiency of heating and cooling systems, alternative energy sources, appropriate building sites, reused or recycled building materials, on-site power generation, rainwater harvesting, and on-site waste management.

WHERE DO THEY WORK?

Persons who do Sustainable Building and Design work on new site construction, renovations of existing structures, in commercial and residential settings and in office settings.

**Wayne County Community College District....
Jobs for Today, Jobs for the Future!**

**FOR MORE INFORMATION, CALL 313-496-2600
OR VISIT OUR WEBSITE AT WWW.WCCCD.EDU**

Recommended Sequence of Courses

Sustainable Environmental Design: Sustainable Buildings and Sites College Certificate

CR. No. COURSE TITLE CREDITS

SEMESTER 1

SED 100	Principles of Sustainable Environmental Design	3
SED 120	Residential and Commercial Sustainable Design	3
SEMESTER TOTAL		6

SEMESTER 2

SED 140	Sustainable Materials	3
SED 142	Sustainable Sites	3
SED 144	Ecologically Aware Interiors	3
SEMESTER TOTAL		9

SEMESTER 3

SED 146	Sustainable Project Management	3
SED 148	Sustainable Systems	3
SED 160	Sustainable Community Principles	3
SEMESTER TOTAL		9

SEMESTER 4

SED 200	LEED Certification Exam Preparation	3
SED 220	Sustainable Environmental Design Capstone	6
SEMESTER TOTAL		9
CERTIFICATE TOTAL		33

Note: Certificate total hours may not include prerequisites.

