

CERTIFICATE

Spanish Proficiency

Certificate of Proficiency

Career/Technical (Major Code: 01461)

Prepares students to successfully and professionally use oral and written formal Spanish in the community and the marketplace.

SPAN 215	Spanish for Bilinguals I (5)	
SPAN 216	Spanish for Bilinguals II (5)	
OR		10
SPAN 216	Spanish for Bilinguals II (5)	
SPAN 221	Introduction to Literature for Bilinguals (5)	
Complete one course from the following courses:		3
BUS 225	Complete Interpretation and Translation: General Business (3)	
BUS 226	Interpretation and Translation: Legal (3)	
BUS 227	Interpretation and Translation: Medical (3)	
BUS 233	Interpretation and Translation: Immigration (3)	
BUS 234	Advanced Interpretation and Translation: Legal (3)	
LEGL 257	International Business and Legal Communication: Spanish (3)	
Total units		13

Sustainable Energy Studies

Departments of Applied Technology, CIS/Electronics, and Administration of Justice

Dean Terry Davis, M.H.A., Office 1000K, 619-482-6551

Department Chair David Preciado, A.A.

General Description

Introduces the student to the study of the growth of the human population and its effects on energy and climate demands with an emphasis on landscaping and the built environment. Studies the relationship between human biology and the environment as applied to building design. Emphasizes sustainable building design, passive energy strategies, and the application of appropriate heating, cooling, and ventilation systems. A hands on study of energy auditing methods of existing homes as they are now constructed, analysis of residential design and strategies for energy efficiency. Prepares the student to take the California H.E.R.S. level 1 certification exam.

Career Options

Below is a sample of the career options available for the Sustainable Energy Studies major: Energy auditors and home energy raters, building control systems technicians, compliance analyst or energy regulation specialist, HVAC mechanics, technicians or installers, sustainable landscape professional, landscape irrigation auditor, and sustainable landscape designer.

Degree/Certificate Options

Major Code

Associate in Science Degree: Career/Technical

Sustainable Landscape Practices	02612
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Certificate of Achievement

Sustainable Energy Studies	02471
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Consult with a counselor to develop a Student Education Plan (SEP), which lists the courses necessary to achieve your academic goal.

ASSOCIATE IN SCIENCE DEGREE

Sustainable Landscape Practices

Career /Technical (Major Code: 02612)

Trains students to become proficient in the many skills needed to evaluate residential and urban landscapes for sustainable practices in design, installation, and maintenance. Careers related to this degree include Sustainable Landscape Professional, Landscape Irrigation Auditor, and Sustainable Landscape Designer.

LNT/ SES 101	Introduction to Sustainable Energy Studies	3
LNT 91	Sprinkler System Maintenance: Sprinklers, Pipes, and Backflow Devices	1
LNT 92	Sprinkler System Maintenance: Valves and Wiring	1
LNT 93	Sprinkler System Maintenance: Controllers and Scheduling	1
LNT 100	Plant and Horticultural Science	4
LNT 102	Plant Identification: Deciduous Trees	1
LNT 103	Plant Identification: Conifers and Palms	1
LNT 104	Plant Identification: Broadleaf Trees	1
LNT 106	Plant Identification: Flowering Shrubs	1
LNT 107	Plant Identification: Foliage Shrubs I	1
LNT 108	Plant Identification: Foliage Shrubs II	1
LNT 119	Plant Identification: Xeriphytic Plants	3
LNT 120	Landscape Design I	4
LNT 127	Landscape Construction: Sprinkler Installation	1
LNT 128	Sprinkler Design	3
LNT 129	Sustainable Landscape/Water Auditor	3
LNT 134	Soils	3
LNT 136	Plant Pest and Disease Control	3
Total units		36

To earn an associate degree, additional general education and graduation requirements must be completed. See page 51.

CERTIFICATES



Sustainable Energy Studies

Certificate of Achievement

Career/Technical (Major Code: 02471)

Introduces the student to the study of the growth of the human population and its effects on energy and climate demands with an emphasis on landscaping and the built environment. Studies the relationship between human biology and the environment as applied to building design. Emphasizes sustainable building design, passive energy strategies, and the application of appropriate heating, cooling, and ventilation systems. A hands-on study of energy auditing methods of existing homes as they are now constructed, analysis of residential design and strategies for energy efficiency. Prepares the student to take the California Home Energy Rater System (H.E.R.S). level 1 certification exam.

SES/LNT 101	Introduction to Sustainable Energy Studies	3
SES 110	Introduction to Building Science	3
SES 120	The Energy Efficient Building	3
SES/ARCH 201	Beginning Building Information Modeling	3
SES 205	Building Energy Analysis Using BIM	3
Total units		15



Some courses within this program may require additional coursework that must be completed prior to enrollment in those courses. Please consult the individual course listings for prerequisites and any other limitations on enrollment.