## **Curriculum Standard for Construction: Landscape Architecture Technology**

Career Cluster: Architecture and Construction\*\*

**Cluster Description:** Programs that prepare individuals to apply technical knowledge and skills related to the fields of architecture, construction, and associated professions. Includes instruction that can be applied to a variety of careers in the design-construction industry, including employment with architectural and engineering firms, residential and commercial builders/contractors, and other construction related occupations.

Pathway: Construction | Effective Term: Fall 2013 (2013\*03)

Program Majors Under Pathway					
Program Major / Classification of Instruction P	Credential Level(s) Offered	Program Major Code			
Landscape Architecture Technology	CIP Code 04.0601	AAS/Diploma/Certificate	A40260		

# **Pathway Description:**

The Landscape Architecture Technology curriculum prepares individuals as landscape architecture technicians in landscape design, construction, and architecture fields. The well-trained landscape technician will find excellent prospects for employment and advancement, including large-scale site design and supervision and residential landscape design.

Students receive instruction in landscape construction materials and methods, environmental planning, principles of horticulture, building codes, and computer applications. They develop drafting and computer skills through progressive hands-on courses. Students may choose from a library of courses to suit specific interest areas.

Graduates will demonstrate a working knowledge of landscape architectural practices, including site planning, storm water engineering, road and parking layouts, and grading and plant selection according to zoning/code requirements.

Program Description: Choose one of the following  $4^{th}$  paragraphs to use in conjunction with the first three paragraphs of the pathway description above for documentation used to identify each **Program Major**:

N/A

<sup>\*</sup>Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic use of computers.

#### I. General Education Academic Core

[Curriculum Requirements for associate degree, diploma, and certificate programs in accordance with 1D SBCCC 400.10]: Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours of general education; 3 semester hours must be in communications. General education is optional in certificate programs.

			Construction: Landsca	pe Architecture Tec			
Recommended General Education Academic Core		AAS 15 SHC	Diploma 6 SHC	Certificate			
Minimum General Education Hours Required:				0 SHC			
standara	l. Colle	ges may	recommended general education co choose to include additional or alter riculum needs.	=			
		-	te and diploma level curriculum courso legree programs.	es. These courses may <u>not</u>			
Commur	nication	s:			6 SHC	3-6 SHC	Optional
	СОМ	110	Introduction to Communication	3 SHC			-
	СОМ	120	Intro Interpersonal Com	3 SHC			
	СОМ	231	Public Speaking	3 SHC			
	ENG	110	Freshman Composition	3 SHC			
	ENG	111	Expository Writing	3 SHC			
	ENG	114	Prof Research & Reporting	3 SHC			
	ENG	116	Technical Report Writing	3 SHC			
Humani	tios/Ein	o Arts:			3 SHC	0-3 SHC	Optional
Hullialli	HUM	110	Technology and Society	3 SHC	0 0.1.0		op.ioi.a.
	HUM	115	Critical Thinking	3 SHC			
	HUM			3 SHC			
	PHI	230 230	Leadership Development Introduction to Logic	3 SHC			
	PHI	240	Introduction to Edgic	3 SHC			
Cosial/B	a b a i a	al Caiana					
Social/B				3 (116	3 SHC	0-3 SHC	Optional
	ECO	151	Survey of Economics	3 SHC			
	ECO	251	Prin of Microeconomics	3 SHC			
	GEO	111	World Regional Geography	3 SHC			
	GEO	131	Physical Geography I	4 SHC			
	PSY	118	Interpersonal Psychology	3 SHC			
	PSY	135	Group Processes	3 SHC			
	PSY	150	General Psychology	3 SHC			
	SOC	210	Introduction to Sociology	3 SHC			
	SOC	215	Group Processes	3 SHC			
Natural Sciences/Mathematics:		3 SHC	0-3 SHC	Optional			
	MAT	110	Math Measurement & Literacy	3 SHC			
	MAT	121	Algebra/Trigonometry I	3 SHC			
	MAT	143	Quantitative Literacy	3 SHC			
	MAT	152	Statistical Methods I	4 SHC			
	MAT	171	Precalculus Algebra	4 SHC			
	MAT	223	Applied Calculus	3 SHC			
	MAT	271	Calculus I	4 SHC		1	1

- **II. Major Hours**. AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work-based learning may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. Below is a description of each section under Major Hours.
  - **A. Technical Core.** The technical core is comprised of specific courses which are required for all Program Majors under this Curriculum Standard. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the curriculum core courses or core subject area of the AAS program.
  - **B. Program Major(s).** The Program Major must include a minimum of 12 semester hours credit from required subjects and/or courses. The Program Major is in addition to the technical core.
  - **C. Other Major Hours.** Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from each prefix listed, with the exception of prefixes listed in the core or other Major Areas.

Construction: Landscape Architecture Technology		AAS	Diploma	Certificate		
Minimum Major Hours Required:		49 SHC	30 SHC 12 SHC	12 SHC		
Technical Core/Program Major:					29 SHC	
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		s AAS degree requires a minimum of 12 SF e of the AAS degree.	HC extracted from the			
ARC	114	Architectural CAD	2 SHC			
ARC	240	Site Planning	3 SHC			
LAR	111	Intro to Landscp Arc Tech	3 SHC			
LAR	112	Landscape Materials & Methods	4 SHC			
LAR	113	Res Landscape Design	3 SHC			
LAR	211	Commercial Site Design	3 SHC			
LAR	223	Land Design Project	4 SHC			
LAR	230	Prin of Exterior Planting	4 SHC			
LAR	231	Prin of Interior Planting	3 SHC			

#### C. Other Major Hours.

To be selected from the following prefixes:

ARC, BIO, BPR, CIS, CIV, CSC, ENV, GIS, HOR, LAR, SRV, TRF and WBL

Up to two semester hour credits may be selected from ACA.

Up to three semester hour credits may be selected from the following prefixes: ARA, ASL, CHI, FRE, GER, ITA, JPN, LAT, POR, RUS and SPA.

### **III. Other Required Hours**

A college may include courses to meet graduation or local employer requirements in a certificate (0-1 SHC), diploma (0-4 SHC), or an associate in applied science (0-7 SHC) program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

### **IV. Employability Competencies**

Fundamental competencies that address soft skills vital to employability, personal, and professional success are listed below. Colleges are encouraged to integrate these competencies into the curriculum by embedding appropriate student learning outcomes into one or more courses or through alternative methods.

- **A.** Interpersonal Skills and Teamwork The ability to work effectively with others, especially to analyze situations, establish priorities, and apply resources for solving problems or accomplishing tasks.
- **B.** Communication The ability to effectively exchange ideas and information with others through oral, written, or visual means.
- **C. Integrity and Professionalism** Workplace behaviors that relate to ethical standards, honesty, fairness, respect, responsibility, self-control, criticism and demeanor.
- **D. Problem-solving** The ability to identify problems and potential causes while developing and implementing practical action plans for solutions.
- **E. Initiative and Dependability** Workplace behaviors that relate to seeking out new responsibilities, establishing and meeting goals, completing tasks, following directions, complying with rules, and consistent reliability.
- F. Information processing The ability to acquire, evaluate, organize, manage, and interpret information.
- **G.** Adaptability and Lifelong Learning The ability to learn and apply new knowledge and skills and adapt to changing technologies, methods, processes, work environments, organizational structures and management practices.
- **H. Entrepreneurship** The knowledge and skills necessary to create opportunities and develop as an employee or self-employed business owner.

\*An **Employability Skills Resource Toolkit** has been developed by NC-NET for the competencies listed above. Additional information is located at: <a href="http://www.nc-net.info/employability.php">http://www.nc-net.info/employability.php</a>

Summary of Required Semester Hour Credits (SHC) for each credential:

	AAS	Diploma	Certificate
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
Total Semester Hours Credit (SHC)	64-76	36-48	12-18

<sup>\*\*</sup>The North Carolina Career Clusters Guide was developed by the North Carolina Department of Public Instruction and the North Carolina Community College system to link the academic and Career and Technical Education programs at the secondary and postsecondary levels to increase student achievement. Additional information about Career Clusters is located at: <a href="http://www.nc-net.info/NC">http://www.nc-net.info/NC</a> career clusters quide.php or <a href="http://www.careertech.org">http://www.careertech.org</a>.