APPLIED ENGINEERING & TECHNOLOGIES

ARCHITECTURAL TECHNOLOGY

Architectural Technology Degree - A40100

The Architectural Technology curriculum provides individuals with knowledge and skills that can lead to employment in the field of architecture or one of the associated professions.

Students receive instruction in construction document preparation, materials and methods, environmental and structural systems, building codes and specifications, and computer applications as well as complete a design project. Optional courses may be provided to suit specific career needs.

Upon completion, graduates have career opportunities within the architectural, engineering, and construction professions as well as positions in industry and government.

Architectural CAD Certificate - C40100A

The evening Architectural CAD certificate is designed for students employed full-time in architectural engineering or construction positions that require microcomputer knowledge. Courses include basic hands-on architectural drafting in residential construction and computer courses in different types of computer-aided drafting software from basic to advanced levels.

Opportunities for employment exist as junior technicians within architectural practices and engineering and contracting companies.

Courses in this program can be transferred directly into the Architectural Technology associate degree program.

Building Information Modeling (BIM) Certificate – C40100B

Architectural and Landscape Illustration Certificate – C40100D

Landscape Design Certificate – C40100F

Plant Identification Certificate - C40100G

Program Sequence

First Semester				
ARC	111	Introduction to Architectural Technology	3	
ARC	112	Construction Materials and Methods	4	
ARC	114	Architectural CAD		
ARC	114A	Architectural CAD Lab	1	
ARC	250	Survey of Architecture	3	
Seco	Second Semester			
ARC	113	Residential Architectural Technology	3	
ARC	212	Commercial Construction Technology	3	
ARC	225	Architectural BIM I		
ARC	225A	Architectural BIM I Lab	1	
ARC	264	Digital Architecture	2	
MAT	121	Algebra and Trigonometry	3	
Third	Semes	ster		
ENG	111		3	
HUM	115	Critical Thinking	3	
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Fourth Sen			_
ARC 131			
ARC 132		acts	
ARC 211		nology	
ARC 220	Advanced Architectural (CAD	.2
ARC 230	Environmental Systems.		4
ARC 240			
Fifth Seme	ster		
ARC 141	Elementary Structures for	or Architecture	.4
ARC 213	Design Project		4
SST 140	Green Building and Desi	ign Concepts	.3
ENG 114	Professional Research a	and Reporting	.3
Elective List	(choose from 1 of 4	-	
tracks)	5		.3
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Elective 1 Track 1: Complete Building Information Modeling Certificate (C40100B): Choose CIV 125, ARC 226, ARC 226A + ARC 212, ARC 225, ARC 225A, ARC 264

Elective 2 Track 2: Complete Architectural Planning Design Certificate (C40100C): Choose LAR 211, LAR 241, LAR 242 + ARC 213, ARC 240, ARC 264

Elective 3 Track 3: Complete Architectural and Landscape Illustration Certificate (C40100D): Choose ARC 231, ARC 235, LAR 235 + ARC 264

Elective 2 Track 4: Complete Landscape Design Certificate (C40100F): Choose HOR 114, HOR 160, , LAR 113, LAR 250 + ARC 111, ARC 114, ARC 114A

Elective 2 Track 5: Complete Plant Identification Certificate (C40100G): Choose HOR 160, HOR 161, HOR 162, LAR 231

Sixth Semester PSY 150 General Psychology......3

Elect	ive List	I (Select 5 hours from the following courses):	
ARC	226	Architectural BIM II	2
ARC	226A	Architectural BIM II Lab	1
CIV	125	Civil/Surveying CAD	3
CIV	230	Construction Estimating	3
WBL	111	Work-Based Learning I	1
WBL	112	Work-Based Learning I	
WBL	113	Work-Based Learning I	3

Elective List II (Select 5 hours from the following courses):

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HOR	112	Landscape Design I	
HOR	114	Landscape Construction	.3
HOR	160	Plant Materials I	.3
HOR	161	Plant Materials II	.3
HOR	162	Applied Plant Science	.3
LAR	111	Introduction to Landscape Arch Tech	.3
LAR	113	Residential Landscape Design	.3
LAR	120	Sustainable Development	.3
LAR	211	Commercial Site Design	
LAR	230	Principles of Exterior Planting	.4
LAR	231	Principles of Interior Planting	.3
LAR	241	Adv Site Planning	
LAR	242	Planning and Environment	.3
LAR	250	Survey of LAR	.3
WBL	111	Work-Based Learning I	.1
WBL	112	Work-Based Learning I	.2
WBL	113	Work-Based Learning I	.3
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APPLIED ENGINEERING & TECHNOLOGIES

ARC LAR WBL WBL	235 111	Architectural Portfolio	3 1
WBL	113	Work-Based Learning I	
Electi ARC		IV (Select 5 hours from the following courses): Solar Technology	2
LAR		Sustainable Development	
WBL	111	Work-Based Learning I	
WBL	112	Work-Based Learning I	2
WBL	113	Work-Based Learning I	3
Graduation Requirements72 Credit Hours			