

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

Program Sequence

First Semester

ARC 111	Introduction to Architectural Technology.....	3
ARC 112	Construction Materials and Methods	4
ARC 114	Architectural CAD	2
ARC 114A	Architectural CAD Lab	1
ARC 250	Survey of Architecture.....	3

Second Semester

ARC 113	Residential Architectural Technology.....	3
ARC 212	Commercial Construction Technology.....	3
ARC 225	Architectural BIM I.....	2
ARC 225A	Architectural BIM I Lab.....	1
ARC 264	Digital Architecture.....	2
MAT 121	Algebra and Trigonometry	3

Third Semester

ENG 111	Expository Writing.....	3
HUM 115	Critical Thinking.....	3

Fourth Semester

ARC 131	Building Codes.....	3
ARC 132	Specifications and Contracts	2
ARC 211	Light Construction Technology	3
ARC 220	Advanced Architectural CAD	2

ARC 230	Environmental Systems.....	4
ARC 240	Site Planning	3

Complete Architectural CAD Certificate (C40100A): ARC 111, ARC 112, ARC 113, ARC 114, ARC 114A, ARC 220

Fifth Semester

ARC 141	Elementary Structures for Architecture	4
ARC 213	Design Project	4
SST 140	Green Building and Design Concepts	3
ENG 114	Professional Research and Reporting.....	3
Elective List (choose from 1 of 4 tracks) 5.....		3

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 111, LAR 113, LAR 250 + 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
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Elective 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.....	2
WBL 113	Work-Based Learning I.....	3

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

HOR 112	Landscape Design I.....	3
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.....	3
LAR 230	Principles of Exterior Planting.....	4
LAR 231	Principles of Interior Planting.....	3
LAR 241	Adv Site Planning	3
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

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

ARC 231	Architectural Presentations	4
ARC 235	Architectural Portfolio	3
LAR 111	Introduction to Landscape Arch Tech.....	3
LAR 235	LAR Presentation Techniques.....	3
WBL 111	Work-Based Learning I.....	1
WBL 112	Work-Based Learning I.....	2

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WBL 113 Work-Based Learning I 3

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

ARC 261 Solar Technology 2

LAR 120 Sustainable Development 3

WBL 111 Work-Based Learning I 1

WBL 112 Work-Based Learning I 2

WBL 113 Work-Based Learning I 3

Graduation Requirements 72 Credit Hours