

# PROGRAMS

## ARCHITECTURAL TECHNOLOGY

**Architectural and Construction Pathway:** These programs are designed to prepare individuals to apply technical knowledge and skills to the fields of architecture, construction, construction management, and other associated professions.

Course work includes instruction in sustainable building and design, print reading, building codes, estimating, construction materials and methods, and other topics related to design and construction occupations.

Graduates of this pathway should qualify for entry-level jobs in architectural, engineering, construction and trades professions as well as positions in industry and government.

**Architectural Technology:** A program that prepares individuals to assist architects, engineers, and construction professionals in developing plans and related documentation for residential and commercial projects in both the private and public sectors. Includes instruction in architectural drafting, computer-assisted drafting, construction materials and methods, environmental systems, codes and standards, structural principles, cost estimation, planning, graphics, and presentation.

### Associate in Applied Science Degree Program

		Course Hours Per Week		Semester Hours
First Semester (Fall)		Class	Lab	Credit
ACA-115	Success & Study Skills	0	2	1
ARC-111	Intro to Arch Technology	1	6	3
ARC-112	Constr Matls & Methods	3	2	4
BPR-130	Print Reading-Construction	3	0	3
EGR-110 or EGR-150	Intro to Engineering Tech or Intro to Engineering	1	2	2
ENG-111	Writing and Inquiry	3	0	3
***	Technology Elective	1-3	0-2	2-3
<b>Credit Hours</b>		<b>12-14</b>	<b>12-14</b>	<b>18-19</b>
Second Semester (Spring)				
ARC-114	Architectural CAD	1	3	2
CEG-111	Intro to Gis and Gnss	2	4	4
CST-241	Planning/Estimating I	2	2	3
ENG-112 or ENG-114	Writing/Research in the Disc or Prof Research & Reporting	3	0	3
MAT***	MAT-121 or MAT-171	2-3	2	3-4
<b>Credit Hours</b>		<b>10-11</b>	<b>11</b>	<b>15-16</b>
Third Semester (Summer)				

		Course Hours Per Week		Semester Hours
EGR-251	Statics	2	2	3
SRV-110	Surveying I	2	6	4
***	Physics Elective	3	2-3	4
	<b>Credit Hours</b>	<b>7</b>	<b>10-11</b>	<b>11</b>

#### Fourth Semester (Fall)

ARC-211	Light Constr Technology	1	6	3
SST-140	Green Bldg & Design Concepts	3	0	3
***	Humanities/Fine Arts Elective	3	0	3
***	Directed Elective	0-3	2-30	3
***	Directed Elective	0-3	2-30	4
	<b>Credit Hours</b>	<b>7-13</b>	<b>10-66</b>	<b>16</b>

#### Fifth Semester (Spring)

ARC-213	Design Project	2	6	4
ARC-230	Environmental Systems	3	3	4
***	Technical Elective	0-3	2-6	3-4
***	Social/Beh Sciences Elective	3	0	3
	<b>Credit Hours</b>	<b>8-11</b>	<b>11-15</b>	<b>14-15</b>

Total Required Minimum Semester Hours Credit 74

Technology Electives:		Class	Lab	Credit
CIS-111	Basic PC Literacy	1	2	2
EGR-125	Appl Software for Tech	1	2	2
UAS-110	Intro to UAS Operations	3	0	3
UAS-115	Small UAS Certification	2	0	2

#### Physics Electives:

PHY-131	Physics-Mechanics	3	2	4
PHY-151	College Physics I	3	2	4
PHY-251	General Physics I	3	3	4

#### Directed Electives:

CIV-111	Soils and Foundations	2	4	4
CIV-221	Steel and Timber Design	2	3	3
MAT-263	Brief Calculus	3	2	4
MAT-271	Calculus I	3	2	4
MAT-272	Calculus II	3	2	4
WBL-111	Work-Based Learning I	0	10	1
WBL-112	Work-Based Learning I	0	20	2
WBL-113	Work-Based Learning I	0	30	3
WBL-121	Work-Based Learning II	0	10	1
WBL-122	Work-Based Learning II	0	20	2

		Course Hours Per Week		Semester Hours
Technical Electives:				
ART-121	Two-Dimensional Design	0	6	3
ART-122	Three-Dimensional Design	0	6	3
CEG-212	Intro to Environmental Tech	2	3	3
CIV-222	Reinforced Concrete	2	3	3
ELC-113	Residential Wiring	2	6	4
ELC-114	Commercial Wiring	2	6	4
ELC-115	Industrial Wiring	2	6	4
ELC-117	Motors and Controls	2	6	4
MAT-172	Precalculus Trigonometry	3	2	4
SRV-210	Surveying III	2	6	4
SRV-240	Topo/Site Surveying	2	6	4
WLD-111	Oxy-Fuel Welding	1	3	2
WLD-112	Basic Welding Processes	1	3	2

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