

Architectural Technology

The Architectural Technology curriculum prepares individuals to apply architectural design skills and technical knowledge to architecture, construction, construction management, facility management, architectural visualization and other associated professions.

Course work for our programs includes instruction in architectural design and drafting (BIM), construction materials and methods, sustainability, architectural graphics, and other relevant topics within the industry.

Graduates of this pathway should qualify for entry-level jobs in architecture, engineering, construction, and positions in industry and government. Students also have the opportunity to transfer into several undergraduate design and building sciences BA degree programs with advanced standing. Upon successful completion, The Associate of Applied Science Degree - Architectural Technology is awarded by the college.

For specific information about potential positions and wages in architecture, visit the Central Piedmont Career Coach website.

Architectural Technology (A40100)

- Architectural Technology (A40100) (p. 1)
- Architectural Technology - UNCC Transfer Track (A40100T) (p. 2)

Degree Awarded

The Associate of Applied Science Degree - Architectural Technology is awarded by the college upon completion of this program.

Admissions

- A high school diploma or equivalent is required.
- Central Piedmont Placement tests are required in English and mathematics. Developmental Studies for math and English classes are available for students to build basic skills and knowledge.
- A counseling/orientation appointment follows placement testing.
- Students should see a faculty advisor before registration.
- Many courses have prerequisites or co-requisites; check the Courses section for details.

Note: The curriculum at Central Piedmont includes an emphasis on computer-aided drafting (CAD), Building Information Modeling (BIM), and related computer courses. Students also gain experience in creating Virtual and Augmented Reality environments, and in laser-cutting and 3D printing fabrication techniques.

Contact Information

For more information, call the Program Chair at 704.330.2722 extension 4425, the Skilled Trades Division at 704.330.4424 or visit the Architectural Technology Program website.

Architectural Technology (A40100)

General Education Requirements

ART 111	Art Appreciation	3.0
ENG 111	Writing and Inquiry	3.0
COM 231	Public Speaking	3.0
MAT 171	Precalculus Algebra	4.0

Select 3 credits of the following:		3.0
ECO 251	Principles of Microeconomics	
SOC 210	Introduction to Sociology	

Major Requirements

ACA 122	College Transfer Success (Other Major Requirements)	1.0
ARC 112	Construction Materials & Methods	4.0
ARC 114	Architectural CAD	2.0
ARC 116	Architectural Design Studio I (Architectural Design Studio I)	5.0
ARC 117	Architectural Design Studio II (Architectural Design Studio II)	5.0
ARC 132	Specifications & Contracts	2.0
ARC 141	Elementary Structures for Architecture	4.0
ARC 216	Architectural Design Studio III (Architectural Design Studio III)	5.0
SEM 197	Seminar in _____	2.0
ARC 217	Architectural Design Studio IV (Architectural Design Studio IV)	5.0
ARC 225	Architectural Building Information Modeling I	2.0
ARC 250	Survey of Architecture	3.0
BPR 130	Print Reading-Construction	3.0
CMT 120	Codes and Inspections	3.0
SST 140	Green Building and Design Concepts	3.0

Technical Electives

Select 2 credits of the following: 2.0

UNCG Interior Architecture Transfer Electives

PHY 151	College Physics I	
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ECU Industrial Technology (Architectural Technology Concentration) Transfer Electives

PHY 151	College Physics I	
MAT 172	Precalculus Trigonometry	

WCU School of Engineering & Tech- Technical Operations Transfer Electives

MAT 172	Precalculus Trigonometry	
PHY 151	College Physics I	

UNC Charlotte Civil Engineering Technology Transfer Electives

PHY 151	College Physics I	
SRV 110	Surveying I	
CEG 211	Hydrology & Erosion Control	
MAT 172	Precalculus Trigonometry	

ASU Building Sciences (Arch Tech Concentration) Transfer Electives

ARC 221	Architectural 3-D CAD	
PHY 151	College Physics I	
PHY 152	College Physics II	

Non-Transfer Elective Options

ARC 226	Architectural Building Information Modeling II	
ART 131	Drawing I	
CEG 151	Cad for Engineering Technology	
CST 241	Planning/Estimating I	
DFT 154	Intro to Solid Modeling	
SST 120	Energy Use Analysis	
SST 130	Modeling Renewable Energy	

WBL 111	Work-Based Learning I	
WBL 112	Work-Based Learning I	
Total Credits		67

Architectural Technology - UNCC Transfer Track (A40100T)

General Education & Major Requirements

Fall		
ARC 116	Architectural Design Studio I	5.0
MAT 171	Precalculus Algebra	4.0
ART 111	Art Appreciation	3.0
ARC 225	Architectural Building Information Modeling I	2.0
ARC 250	Survey of Architecture	3.0
ACA 122	College Transfer Success	1.0
Spring		
ARC 117	Architectural Design Studio II	5.0
ARC 112	Construction Materials & Methods	4.0
ENG 111	Writing and Inquiry	3.0
ARC 132	Specifications & Contracts	2.0
ARC 251	Advanced Survey of Architecture	3.0
Summer		
SST 140	Green Building and Design Concepts	3.0
SOC 210	Introduction to Sociology	3.0
Fall		
ARC 216	Architectural Design Studio III	5.0
ENG 112	Writing and Research in the Disciplines	3.0
COM 231	Public Speaking	3.0
CMT 120	Codes and Inspections	3.0
Spring		
SEM 197	Seminar in _____	2.0
ARC 217	Architectural Design Studio IV	5.0
ARC 230	Environmental Systems	4.0
PHY 151	College Physics I	4.0
MAT 172	Precalculus Trigonometry	4.0
Total Credits		74

No diplomas are offered in Architectural Technology.

Architectural Technology Certificates

- Architectural Technology Certificate Specialization in Residential Architectural Technology (C40100-C2) (p. 2)
- Architectural Technology Certificate Specialization in Sustainability (C40100-C4) (p. 2)
- Architectural Technology Certificate Specialization in Accelerated CAD/BIM Designer Track (C40100-C5) (p. 2)
- Architectural Technology Certificate Specialization in Accelerated CAD/BIM Designer Track - Level II (C40100-C6) (p. 2)
- Architectural Technology Certificate Specialization in Fast Track Computer-Aided Drafting and Design (C40100-52) (p. 3)

Architectural Technology Certificate Specialization in Residential Architectural Technology (C40100-C2)

Major Requirements

ARC 116	Architectural Design Studio I (Architectural Design Studio I)	5.0
ARC 225	Architectural Building Information Modeling I	2.0
ARC 117	Architectural Design Studio II (Architectural Design Studio II)	5.0
BPR 130	Print Reading-Construction	3.0
SST 140	Green Building and Design Concepts	3.0
Total Credits		18

Graduates from this certificate should be able to provide support to the Green Building and Facility Management Industries. This certificate also is available to high school students enrolled in Career & College Promise.

Architectural Technology Certificate Specialization in Sustainability (C40100-C4)

Major Requirements

ARC 116	Architectural Design Studio I (Architectural Design Studio I)	5.0
ARC 225	Architectural Building Information Modeling I	2.0
SST 120	Energy Use Analysis	3.0
SST 130	Modeling Renewable Energy	3.0
SST 140	Green Building and Design Concepts	3.0
Total Credits		16

Architectural Technology Certificate Specialization in Accelerated CAD/BIM Designer Track - Level I (C40100-C5)

Major Requirements

ARC 116	Architectural Design Studio I (Architectural Design Studio I)	5.0
MAT 171	Precalculus Algebra	4.0
CEG 151	Cad for Engineering Technology	3.0
ARC 225	Architectural Building Information Modeling I	2.0
ARC 114	Architectural CAD	2.0
Total Credits		16

This is the first half of a nested curriculum sequence designed to prepare students for careers in Computer Aided Drafting and/or Building Information Modeling.

Architectural Technology Certificate Specialization in Accelerated CAD/BIM Designer Track - Level II (C40100-C6)

Major Requirements

BPR 130	Print Reading-Construction	3.0
ARC 226	Architectural Building Information Modeling II	2.0
DFT 154	Intro to Solid Modeling	3.0
ARC 230	Environmental Systems	4.0
ARC 197		2.0

WBL 111	Work-Based Learning I	1.0
Total Credits		15

This is the second half of a nested curriculum sequence designed to prepare students for careers in Computer Aided Drafting and/or Building Information Modeling.

Architectural Technology Certificate Specialization in Fast Track Computer-Aided Drafting and Design (C40100-52)

Major Requirements

ARC 116	Architectural Design Studio I (Architectural Design Studio I)	5.0
ARC 112	Construction Materials & Methods	4.0
ARC 114	Architectural CAD	2.0
ARC 132	Specifications & Contracts	2.0
ARC 225	Architectural Building Information Modeling I	2.0
WBL 121	Work-Based Learning II	1.0
Total Credits		16

Graduates with this certificate should be able to obtain entry-level positions in Computer Aided Drafting or Building Information Modeling. This certificate also is available to high school students enrolled in Career and College Promise.

The following is the suggested plan for when to take each course to complete the Associate in Applied Science degree, based on the program requirements of the 2022-2023 catalog. This is only a recommendation — you may take courses in another order upon consultation with your advisor. This plan is based on you starting with college-level math and English courses, starting your program in the fall, and attending full-time. You can also follow this sequence if you attend part-time. Speak with an advisor about the plan and any questions. This program might also offer diplomas or certificates; visit the catalog or contact the program for details.

Architectural Technology suggested course sequence

Architectural Technology Transfer suggested course sequence