The Associate of Applied Science Degree in Architectural Technology prepares 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 how to complete a design project. Recent graduates have been offered and are pursuing career opportunities in the fields of architecture, engineering, construction and facility management.

GET STARTED

The admissions application is required for all students taking curriculum classes – classes that carry credit toward a degree, diploma or credit certificate.

- Complete admissions application to CPCC. Within an hour, you should receive an admission letter via email with your Student ID Number.
- Create your CPCC login (username and password).
- Log in to your CPCC student email.
- Complete FAFSA to begin the financial aid process.
- Submit high school and external college transcripts; then have college transcripts evaluated.
- Take the ACCUPLACER test.
- Sign-up and attend an orientation and advising session.
- Register and pay for classes, or confirm that you have a financial aid award by the payment due date.

FOR MORE INFORMATION

Architectural Technology Department
704.330.6548
www.cpcc.edu/construction/architectural-technology

Construction Technologies Division
704.330.4408

Consult with a faculty member or the Program Chair prior to registering.
**ARC 111  Introduction to Architectural Technology**  
This course introduces basic architectural drafting techniques, lettering, use of architectural and engineer scales, and sketching. Topics include orthographic, axonometric and oblique drawing techniques using architectural plans, elevations, sections, and details; reprographic techniques, and other related topics.

**ARC 112  Construction Materials & Methods**  
This course introduces construction materials and their methodologies. Topics include construction terminology, materials and their properties, manufacturing processes, construction techniques, and other related topics.

**ARC 113  Residential Architectural Technology**  
Prerequisites: ARC 111 and ARC 112  
This course covers intermediate residential working drawings. Topics include residential plans, elevations, sections, details, schedules and other related topics.

**ARC 114  Architectural CAD (AutoCAD)**  
Prerequisites: ARC 111  
This course introduces basic architectural CAD techniques. Topics include basic commands and system hardware and software.

**ARC 131  Building Codes**  
Prerequisites: ARC 111 and ARC 112  
This course covers the methods of researching building codes for specific projects. Topics include residential and commercial building codes.

**ARC 132  Specifications and Contracts**  
Prerequisites: ARC 112 and ARC 133  
This course covers the development of written specifications and the implications of different contractual arrangements. Topics include specification development, contracts, bidding material research and agency responsibilities.

**ARC 133  Construction Document Analysis**  
This course covers the analysis of building construction drawings. Emphasis is placed on material identification, understanding construction details, and the relationships of building structural, mechanical, plumbing and electrical systems.

**ARC 141  Elementary Structure for Architecture**  
Prerequisites: ARC 111 and MAT 121 or MAT 171  
This course covers concepts of elementary structures in architecture. Topics include structural form, statics, strength of materials, structural behavior and the relationship between structures and architectural form.

**ARC 160  Residential Design**  
Prerequisites: ARC 111 and ARC 112  
This course introduces the methodology of basic residential design. Topics include residential site design, space organization and layout, residential styles and the development of schematic design. Upon completion, students should be able to design a residence.

**ARC 212  Commercial Construction Technology**  
Prerequisites: ARC 111, ARC 112, ARC 113, ARC 114, ARC 133  
This course introduces regional construction techniques for commercial plans, elevations, sections and details. Topics include production of a set of commercial contract documents and other related topics.

**ARC 213  Design Project**  
Prerequisites: ARC 212, ARC 114, ARC 131 ARC 212, ARC 230, CIV 220  
This course provides the opportunity to design and prepare a set of contract documents within an architectural setting. Topics include schematic design, design development, construction documents and other related topics.

**ARC 220  Advanced Architectural CAD**  
Prerequisites: ARC 114  
This course provides file management, productivity and CAD customization skills. Emphasis is placed on developing advanced proficiency techniques.

**ARC 225  Architectural BIM I**  
Prerequisites: ARC 114  
This course is an introduction to the fundamentals of Building Information Modeling (BIM) as a construction documentation system. Topics include basic parametric modeling, creating new types and families of components and using 3D models to create design drawings.

**ARC 230  Environmental Systems**  
Prerequisites: ARC 111, ARC 114, ARC 133 and MAT 121 or MAT 171  
This course introduces plumbing, mechanical (HVAC) and electrical systems for the architectural environment. Topics include basic plumbing, and mechanical and electrical systems for residential and/or commercial buildings with an introduction to selected code requirements.

**ARC 250  Survey of Architecture**  
This course introduces the historical trends in architectural form. Topics include historical and current trends in architecture.

**ARC 264  Digital Architecture**  
Prerequisites: ARC 111  
This course covers multiple digital architectural techniques. Topics include spreadsheets and word processing procedures, online resources, modems, email, image capture, multimedia and other related topics.