

# ARCHITECTURAL DRAFTING / CONSTRUCTION TECHNOLOGY

## Overview

Architectural Drafting / Construction Technology Associate of Applied Science Degree

Program Code: 10-614-5

For more information: [wctc.edu/architectural-tech](http://wctc.edu/architectural-tech) (<http://www.wctc.edu/architectural-tech/>)

Architectural drafters work with engineers or architects to create technical design solutions as they relate to a building's functionality, performance and aesthetics. In this program, develop knowledge of building materials, systems and construction technology to produce drawings for construction from computer-aided drafting (CAD) applications or cutting-edge, computer-generated virtual models.

The minimum required course grades and program grade point average (GPA) for students under this catalog are:

Core Courses = C

General Studies Courses = C-

Program GPA = 2.0

## Learning Outcomes

### Program Outcomes

1. Produce construction documents with AutoCAD.
2. Produce construction documents through the assembly of a Building Information Model in Revit.
3. Develop building details.
4. Assist with development of the building aesthetic design.
5. Assist with the technical development of the building design.

## Critical Life Skills

To help our students prepare for success in a workplace and society that is **increasingly global, multi-cultural, and collaborative**, all students are given opportunities to develop and demonstrate Critical Life Skills, both in and out of the classroom. The following Critical Life Skills are learning outcomes for WCTC students.

- **Communication:** Demonstrate appropriate communication.
- **Critical Thinking/Problem Solving:** Demonstrate critical thinking skills to analyze situations and solve problems.
- **Relationships:** Demonstrate effective interpersonal skills.
- **Self-management:** Demonstrate responsible and respectful behavior.

## Required Courses

Listed below are the required courses for the program. To view the recommended sequence for taking courses click on the plan of study tab(s) above. Work with your Academic Advisor to design a program plan!

View your **Program Matrix** to find out when each course will be offered (term and time of day).

Code	Title	Credits
<b>Core Courses</b>		
304-127	ID/Arch Internship	1
Approved Substitute: 304-126		
304-129	Sales & Professional Develop	2
304-132	Manual Design Presentation	1
Approved Substitute: 304-128		
304-133	Digital Design Presentation	1
Approved Substitute: 304-128		
614-104	Architectural History	3
Approved Substitute: 304-101 OR 304-130		
614-107	Intro to Drafting	3
614-110	Architectural AutoCAD	3
Approved Substitute: 304-116		
614-131	Introductory Revit	3
614-135	Construction Technology	3
614-128	Architectural Design Elements	2
614-132	Advanced AutoCAD	3
614-134	Architectural Building Codes	1
614-138	Structural Concepts	2
614-139	MEP Systems	1
Approved Substitute: 455-109 OR 614-149		
614-141	Advanced Revit	3
614-146	Architectural Design Studio	4
614-151	Building Materials & Methods	2
Approved Substitute: 614-149		
614-152	Sustainable Building Concepts	3
Approved Substitute: 614-137		
614-159	Advanced Digital Presentation	2
<b>General Studies</b>		
801-136	English Composition 1	3
Approved Substitute: 801-223		
801-196	Oral/Interpersonal Comm	3
Approved Substitute: 801-198		
804-114	College Technical Math 1B	2
Approved Substitute: 804-115		
806-143	College Physics 1	3
Approved Substitute: 806-187		
809-195	Economics	3
Approved Substitutes: 809-143 OR 809-287		
809-199	Psychology of Human Relations	3
Approved Substitute: 809-198		
<b>Total Credits</b>		<b>60</b>

## Full-time Plan

### First Year

Fall Term 1		Credits
614-107	Intro to Drafting	3
804-114	College Technical Math 1B	2
<b>Credits</b>		<b>5</b>

### Fall Term 2

614-151	Building Materials & Methods	2
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801-136	English Composition 1	3
806-143	College Physics 1	3
<b>Credits</b>		<b>8</b>
<b>Spring Term 1</b>		
614-104	Architectural History	3
614-110	Architectural AutoCAD	3
<b>Credits</b>		<b>6</b>
<b>Spring Term 2</b>		
614-131	Introductory Revit	3
614-138	Structural Concepts	2
614-139	MEP Systems	1
<b>Credits</b>		<b>6</b>
<b>Second Year</b>		
<b>Summer Term</b>		
304-129	Sales & Professional Develop	2
614-135	Construction Technology	3
809-199	Psychology of Human Relations	3
<b>Credits</b>		<b>8</b>
<b>Fall Term 1</b>		
304-132	Manual Design Presentation	1
614-132	Advanced AutoCAD	3
801-196	Oral/Interpersonal Comm	3
<b>Credits</b>		<b>7</b>
<b>Fall Term 2</b>		
304-133	Digital Design Presentation	1
614-141	Advanced Revit	3
614-152	Sustainable Building Concepts	3
<b>Credits</b>		<b>7</b>
<b>Spring Term 1</b>		
304-127	ID/Arch Internship <small>This course will run 16 weeks.</small>	1
614-128	Architectural Design Elements	2
614-134	Architectural Building Codes	1
614-146	Architectural Design Studio <small>This course will run 16 weeks.</small>	4
<b>Credits</b>		<b>8</b>
<b>Spring Term 2</b>		
614-159	Advanced Digital Presentation	2
809-195	Economics	3
<b>Credits</b>		<b>5</b>
<b>Total Credits</b>		<b>60</b>

## Architectural Drafting + Interior Design Dual Plan

### First Year

		Credits
<b>Fall Term 1</b>		
614-107	Intro to Drafting	3
304-100	Principles of Interior Design	3
804-114	College Technical Math 1B	2
<b>Credits</b>		<b>8</b>
<b>Fall Term 2</b>		
304-121	Space Planning	2

614-151	Building Materials & Methods	2
806-143	College Physics 1	3
<b>Credits</b>		<b>7</b>
<b>Spring Term 1</b>		
304-103	Appl Textiles Interior Design	3
614-104	Architectural History	3
OR 304-101 History of Furniture		
614-110	Architectural AutoCAD	3
OR 304-116 AutoCAD for Interior Designers (offered Spring 2)		
<b>Credits</b>		<b>9</b>
<b>Spring Term 2</b>		
614-131	Introductory Revit	3
614-139	MEP Systems	1
<b>Credits</b>		<b>4</b>
<b>Second Year</b>		
<b>Summer Term</b>		
614-135	Construction Technology	3
801-196	Oral/Interpersonal Comm	3
<b>Credits</b>		<b>6</b>
<b>Fall Term 1</b>		
614-132	Advanced AutoCAD	3
809-195	Economics	3
<b>Credits</b>		<b>6</b>
<b>Fall Term 2</b>		
614-141	Advanced Revit	3
614-152	Sustainable Building Concepts	3
<b>Credits</b>		<b>6</b>
<b>Spring Term 1</b>		
614-128	Architectural Design Elements	2
614-134	Architectural Building Codes	1
809-199	Psychology of Human Relations	3
<b>Credits</b>		<b>6</b>
<b>Spring Term 2</b>		
304-117	Kitchen and Bath Planning	3
614-138	Structural Concepts	2
801-136	English Composition 1	3
<b>Credits</b>		<b>8</b>
<b>Third Year</b>		
<b>Summer Interim</b>		
304-124	Interior Design Software	1
<b>Credits</b>		<b>1</b>
<b>Summer Term</b>		
304-129	Sales & Professional Develop	2
<b>Credits</b>		<b>2</b>
<b>Fall Term 1</b>		
304-112	Intro to Commercial Design	4
304-132	Manual Design Presentation	1
304-134	Interior Design Internship <small>This course will run 16 weeks.</small>	1
<b>Credits</b>		<b>6</b>
<b>Fall Term 2</b>		
304-133	Digital Design Presentation	1

304-118	Advanced Commercial Design	3
OR 304-119 Residential Design		
<b>Credits</b>		<b>4</b>
<b>Spring Term 1</b>		
304-127	ID/Arch Internship <small>This course will run 16 weeks.</small>	1
304-111	Applied Interior Design	3
614-146	Architectural Design Studio <small>This course will run 16 weeks.</small>	4
<b>Credits</b>		<b>8</b>
<b>Spring Term 2</b>		
614-159	Advanced Digital Presentation	2
<b>Credits</b>		<b>2</b>
<b>Total Credits</b>		<b>83</b>