## 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://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.
- 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 Core Courses	Title	Credits
304-127	ID/Arch Internship	1
Approved Substit		
304-129	Sales & Professional Develop	2
304-132	Manual Design Presentation	1
Approved Substit	<u> </u>	'
304-133	Digital Design Presentation	1
Approved Substit		'
614-104	Architectural History	3
	ute: 304-101 OR 304-130	3
614-107	Intro to Drafting	3
614-110	Architectural AutoCAD	3
Approved Substit		3
		3
614-131 614-135	Introductory Revit	3
	Construction Technology	
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
	ute: 455-109 OR 614-149	0
614-141	Advanced Revit	3
614-146	Architectural Design Studio	4
614-151	Building Materials & Methods	2
Approved Substit		
614-152	Sustainable Building Concepts	3
Approved Substit		
614-159	Advanced Digital Presentation	2
General Studies		
801-136	English Composition 1	3
Approved Substitute		
801-196	Oral/Interpersonal Comm	3
Approved Substit		
804-114	College Technical Math 1B	2
Approved Substit		
806-143	College Physics 1	3
Approved Substit	ute: 806-187	
809-195	Economics	3
	utes: 809-143 OR 809-287	
809-199	Psychology of Human Relations	3
Approved Substit	ute: 809-198	
Total Credits		60

#### **Full-time Plan**

# First Year Credits 614-107 Intro to Drafting 3 804-114 College Technical Math 1B 2 Credits 5 Fall Term 2 5 614-151 Building Materials & Methods 2

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

## Architectural Drafting + Interior Design Dual Plan

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

614-151	Building Materials & Methods	2
806-143	College Physics 1	3
	Credits	7
Spring Term 1		
304-103	Appl Textiles Interior Design	3
614-104	Architectural History	3
OR 304-101 Histo		
614-110	Architectural AutoCAD	3
OR 304-116 Auto	CAD for Interior Designers (offered Spring 2)	
	Credits	9
Spring Term 2		
614-131	Introductory Revit	3
614-139	MEP Systems	1
	Credits	4
Second Year		
Summer Term		
614-135	Construction Technology	3
801-196	Oral/Interpersonal Comm	3
	Credits	6
Fall Term 1		
614-132	Advanced AutoCAD	3
809-195	Economics	3
	Credits	6
Fall Term 2		
614-141	Advanced Revit	3
614-152	Sustainable Building Concepts	3
	Credits	6
Spring Term 1		
614-128	Architectural Design Elements	2
614-134	Architectural Building Codes	1
809-199	Psychology of Human Relations	3
	Credits	6
Spring Term 2	10.1	
304-117	Kitchen and Bath Planning	3
614-138	Structural Concepts	2
801-136	English Composition 1	3
This IV.	Credits	8
Third Year Summer Interim		
304-124	Interior Decian Coftware	1
304-124	Interior Design Software  Credits	1 1
Summer Term	Credits	'
304-129	Salas & Professional Davalon	2
304-129	Sales & Professional Develop  Credits	2 <b>2</b>
Fall Tarre 1	Credits	2
Fall Term 1	lates to Communical Design	4
304-112	Intro to Commercial Design	4
304-132	Manual Design Presentation  This course will run	1
304-134	Interior Design Internship This course will run 16 weeks.	1
	Credits	6
Fall Term 2		
304-133	Digital Design Presentation	1

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