

## Drafting & Design Technology

The drafter is a technician who correlates work between the design and production departments of industry. The drafter's chief function is to prepare working drawings from sketches, written specifications, or field notes furnished by an engineer. The drawings will enable tradespersons and operatives to produce a finished manufactured product or complete a construction project. This program provides manual and computer-aided drafting experience supplemented with related technical information. Graduates are qualified for entry-level technician positions in drafting.

### Program Learning Outcomes (PLO)

PLO 1: Analyze and interpret survey field notes to generate a civil drawing.

PLO 2: Analyze and interpret survey data to generate a topographical drawing.

PLO 3: Develop mechanical drawings, including assembly, detail, and pictorial drawings.

PLO 4: Interpret terms used to identify dimensions of two mating parts, and draw details, assemblies, and interpret thread notes.

PLO 5: Identify components of structural systems and use reference materials, including concrete foundations and frames, wood framing and trusses, and structural steel framing systems.

### Courses Measuring the Achievement of Program Learning Outcomes

Course	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
DFTG 1430 (L1, AAS)	X				
DFTG 2421 (AAS)		X			
DFTG 1433 (L1, AAS)			X		
DFTG 2402 (AAS)				X	
ARCE 1452 (AAS)					X

## DRAFTING & DESIGN TECHNOLOGY RECOMMENDED ACADEMIC PLAN

1ST YEAR, 1ST SEMESTER				Credit Hours	✓
<i>Term 1</i>					
DFTG	1325	Blueprint Reading & Sketching	3	<input type="checkbox"/>	
DFTG	1409	Basic Computer-Aided Drafting	4	<input type="checkbox"/>	
STSU	0300	Student Success	0	<input type="checkbox"/>	
<i>Term 2</i>					
DFTG	1405	Introduction to Technical Drawing	4	<input type="checkbox"/>	
TECM	1301	Industrial Mathematics	3	<input type="checkbox"/>	
				<b>14</b>	
1ST YEAR, 2ND SEMESTER					
<i>Term 1</i>					
DFTG	1417	Architectural Drafting - Residential	4	<input type="checkbox"/>	
DFTG	1433	Mechanical Drafting	4	<input type="checkbox"/>	
<i>Term 2</i>					
DFTG	1430	Civil Drafting I	4	<input type="checkbox"/>	
ENGL	1301	Composition I	3	<input type="checkbox"/>	
<b>* Earned:</b> <i>Level 1 Certificate in Drafting &amp; Design Technology</i>				<b>15</b>	<input type="checkbox"/>
2ND YEAR, 1ST SEMESTER					
<i>Term 1</i>					
DFTG	2402	Machine Drafting	4	<input type="checkbox"/>	
PHYS	1305	Elementary Physics	3	<input type="checkbox"/>	
<i>Term 2</i>					
DFTG	2421	Topographical Drafting	4	<input type="checkbox"/>	
PSYC	2301	General Psychology	3	<input type="checkbox"/>	
XXXX	x3xx	Elective	3	<input type="checkbox"/>	
<b>☛ Apply for Graduation</b>				<b>17</b>	<input type="checkbox"/>
2ND YEAR, 2ND SEMESTER					
<i>Term 1</i>					
ARCE	1452*	Structural Drafting	4	<input type="checkbox"/>	
ARTS	1301	Art Appreciation	3	<input type="checkbox"/>	
<i>Term 2</i>					
ARCE	2452	Mechanical & Electrical Systems	4	<input type="checkbox"/>	
SPCH	1318	Interpersonal Communication	3	<input type="checkbox"/>	
<b>* Earned:</b> <i>Associate of Applied Science in Drafting &amp; Design Technology</i>				<b>Total Hours</b>	<b>60</b>

\*Capstone Course: ARCE 1452 - Structural Drafting

Technical Math courses (TECM) do not satisfy the core general education Life & Physical Science/Mathematics requirement.