

# CERTIFICATE OF ACHIEVEMENT



# CIVIL DESIGN TECHNICIAN

This program provides a focused course of study for students in preparation for careers involving the design and construction of civil engineering projects. The curriculum also puts interested students on the path to licensure as civil engineers. The coursework includes exposure to the broad range of subdisciplines within the field of civil engineering and closely-related fields such as surveying, architecture, geographic information systems (GIS), and construction. Additionally, the integral coursework focuses on the preparation of common civil project drawings using industry-standard drawing techniques and conventions with hand and/or computer-aided drafting (CAD) tools.

To acquire the **Certificate of Achievement in Civil Design Technician**, it is necessary to complete the following:

Required Courses	Units	N	IP	C
<b>ARCH 110</b> Construction Document Reading and Estimating OR	<b>3</b>			
<b>ARCH 115</b> Introduction to Residential Architecture	<b>4</b>			
<b>CIV 140</b> Civil Engineering & Construction Fundamentals	<b>4</b>			
<b>CIV 142</b> Introduction to Surveying and GPS	<b>4</b>			
<b>CIV 210</b> Concrete Technology and Testing	<b>2</b>			
<b>CIV 241</b> *Civil Engineering Drafting and Design	<b>3</b>			
<b>ENGT 101</b> Introduction to Technical Drawing & Graphics	<b>3</b>			
<b>ENGR 100</b> or Introduction to Engineering <b>ENGT 100</b>	<b>2</b>			
<b>ENGT 150</b> AutoCAD for Basic CADD Applications OR	<b>4</b>			
<b>ENGT 170</b> MicroStation for Basic CADD Applications				
<b>Choose a minimum of 5 units from the following:</b>				
<b>CIV 143</b> *Applications to Surveying and GPS	<b>4</b>			
<b>CIV 245</b> *Civil Engineering Design and Modeling	<b>3</b>			
<b>CIV 290</b> Cooperative Work Experience/Internship for Civil Related Fields	<b>1-4</b>			
<b>CIV 299</b> *Directed Study in Civil Design Technology	<b>1-3</b>			
<b>GIS 120</b> Introduction to Geographic Information Systems and Spatial Analysis	<b>4</b>			
<b>Total units needed for Certificate of Achievement</b>	<b>30-34</b>			
Units Completed				
*Prerequisite/Corequisite				