

# ONE-YEAR CERTIFICATE CNC TECHNICAL

2025-26 Catalog

Effective Summer 2025

4308

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing. Refer to Policy No. 3357:15-13-28.

MY ACADEMIC PLAN

Business, Engineering, and Information Technologies Division

Industrial Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre-and Co-Requisites	Completed Sem./Year
AIT122	Machine Tools	4		
AIT123	Advanced Machine Tools	4	AIT122	
IET223	Computer Numerical Control	4		
AIT221	Advanced CNC Programming	3	IET223 or ARL121 or ARL122	
DET121	Engineering Drawing	3		
or MST121	or Blueprint Reading	<b>or</b> 2		
DET125	Basic AutoCAD	3		
IET270	Dimensional Metrology and Inspection I ^	3	(MTH025 or Proficiency) <b>or</b> MTH107	
AIT137	CAD/CAM	4	AIT122 and IET223	
	Total	27-28		
NON-TECH Course Number	Course Title	Credits	Pre-and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
MET123	Material Science	3		
MTH107 or MTH125	Industrial Math^ or College Algebra Ω	3 <b>or</b> 4	Check for prerequisites	
	Total	10-11		
	TOTAL CREDIT HOURS	37-39		

<sup>^</sup>Based on SSC placement scores

Students completing this certificate may be eligible to also receive an Industrial Technology – CAD/CAM Specialist (Computer-Aided Drafting/Computer-Aided Machining) Career Enhancement Certificate (4316) and Industrial Technology – Precision Machining and CNC Programming Career Enhancement Certificate (4319).

The classes in this certificate also apply toward the completion of an Industrial Technology Degree (4300).

<sup>^</sup>To promote student success, this course should be taken in the first semester

 $<sup>\</sup>Omega$  MTH125 College Algebra should only be taken by students planning to transfer to a four-year institution.

Effective Summer 2025

## ONE-YEAR CERTIFICATE

## **CNC TECHNICAL**

4308

#### FULL-TIME STUDENT ADVISING NOTES

### Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

#### Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

First Semester		Credit Hours	Pre- and Co-requisite	
SSC101	Student Success Seminar^^	1	Take first semester	
MTH107	Industrial Math^	3		
or MTH125	or College Algebra $\Omega$	<b>or</b> 4	Check for prerequisites	
AIT122	Machine Tools	4		
IET223	Computer Numerical Control	4		
DET121	Engineering Drawing	3		
or MST121	<b>or</b> Blueprint Reading	or <u>2</u>		
11.50 1 1 2 1	Zimpimi itaning	<u>=</u> 14-16		
Second Semester				
AIT123	Advanced Machine Tools	4	AIT122	
AIT137	CAD/CAM	4	AIT122 and IET223	
AIT221	Advanced CNC Programming	3	IET223 or ARL121 or ARL122	
IET270	Dimensional Metrology and Inspection I^	3	(MTH025 or Proficiency) <b>or</b> MTH107	
MET123	Material Science	<u>3</u>		
		17		
Third Semester				
DET125	Basic AutoCAD	3		
ITD122	Computer Applications for Professionals^	<u>3</u>	ITD100 or Proficiency	
		6		
	TOTAL CREDITS	37-39		

<sup>^</sup>Based on SSC placement scores

<sup>^^</sup>To promote student success, this course should be taken in the first semester

 $<sup>\</sup>Omega$  MTH125 College Algebra should only be taken by students planning to transfer to a four-year institution.