

 	ONE-YEAR CERTIFICATE CNC TECHNICAL <i>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.</i>	2024-25 Catalog Effective Summer 2024
		4308

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 or MST121	Engineering Drawing or Blueprint Reading	3 or 2		
DET125	Basic AutoCAD	3		
IET270	Dimensional Metrology and Inspection I ^	3	(MTH025 or Proficiency) or 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	<i>Take first semester</i>	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
MET123	Material Science	3		
MTH107 or MTH125	Industrial Math^ or College Algebra Ω	3 or 4	<i>Check for prerequisites</i>	
	Total	10-11		
	TOTAL CREDIT HOURS	37-39		

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

Ω MTH125 College Algebra should only be taken by students planning to transfer to a four-year institution.

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).

PART-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 who plan to finish in four semesters.

<u>First Semester</u>	<u>Credit Hours</u>	<u>Pre- and Co-requisite</u>
SSC101 Student Success Seminar^^	1	<i>Take first semester</i>
AIT122 Machine Tools	4	
MTH107 Industrial Math^	3	
or	or	<i>Check for prerequisites</i>
MTH125 College Algebra Ω	<u>4</u>	
	8-9	
 <u>Second Semester</u>		
AIT123 Advanced Machine Tools	4	AIT122
IET270 Dimensional Metrology and Inspection I^	3	(MTH025 or Proficiency) or MTH107
MET123 Material Science	<u>3</u>	
	10	
 <u>Third Semester</u>		
IET223 Computer Numerical Control	4	
DET121 Engineering Drawing	3	
or	or	
MST121 Blueprint Reading	2	
DET125 Basic AutoCAD	<u>3</u>	
	9-10	
 <u>Fourth Semester</u>		
AIT221 Advanced CNC Programming	3	IET223 or ARL121 or ARL122
AIT137 CAD/CAM	4	AIT122 and IET223
ITD122 Computer Applications for Professionals^	<u>3</u>	ITD100 or Proficiency
	10	
TOTAL CREDITS	37-39	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

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