ONE-YEAR CERTIFICATE

CNC TECHNICAL

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.

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	*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 **or** 4	*Check for prerequisites*	
	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.

First Semester		Credit Hours	Pre- and Co-requisite
SSC101	Student Success Seminar^^	1	*Take first semester*
AIT122	Machine Tools	4	
MTH107	Industrial Math^	3	
or	**or**	**or**	*Check for prerequisites*
MTH125	College Algebra Ω	<u>4</u>	
		8-9	

Second Semester			
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	

Third Semester			
IET223	Computer Numerical Control	4	
DET121	Engineering Drawing	3	
or	**or**	**or**	
MST121	Blueprint Reading	2	
DET125	Basic AutoCAD	<u>3</u>	
		9-10	

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