



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.

2021 Catalog
Effective Summer 2020

4308

Engineering 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.

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	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	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

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