

Alamance Community College

2021 Calendar Year

Computer Integrated Machining • Semester by Semester

First Year

Fall 1st Semester

COURSE NUMBER	COURSE TITLE	CONTACT HOURS	CREDIT HOURS
MAC-141	Machining Applications I	8	4
MAC-121	Introduction to CNC	2	2
ACA-111	College Student Success	1	1
MAC-151	Machining Calculations	3	2
BPR-111		3	2
MAC-114	Introduction to Metrology	2	2
	Semester Total	19	13

First Year

Spring 2nd Semester

COURSE NUMBER	COURSE TITLE	CONTACT HOURS	CREDIT HOURS
MAC-122	CNC Turning	0	2
MAC-142	Machining Applications II	8	4
MAC-124	CNC Milling	4	2
MEC-110	Introduction to CAD/CAM	3	2
ENG-115	Oral Communication	3	3
	Semester Total	18	13

First Year

Summer 3rd Semester

COURSE NUMBER	COURSE TITLE	CONTACT HOURS	CREDIT HOURS
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COURSE NUMBER	COURSE TITLE	CONTACT HOURS	CREDIT HOURS
MEC-231	Computer-Aided Manufacturing I	5	3
ISC-111	Quality Control	2	2
MAC-228	Advanced CNC Processes	5	3
	Semester Total	12	8

Second Year

Fall 4th Semester

COURSE NUMBER	COURSE TITLE	CONTACT HOURS	CREDIT HOURS
MAC-141A	MacHining Applications I Lab	6	2
MAC-224	Advanced CNC Milling	4	2
MAC-232	CAM: Computer Numerical Control Milling	5	3
MAC-229	CNC Programming	2	2
	Semester Total	17	9

Second Year

Spring 5th Semester

COURSE NUMBER	COURSE TITLE	CONTACT HOURS	CREDIT HOURS
	Humanities/Fine Arts Elective	3	3
	Sociology/Behavioral Science Elective	3	3
MAC-142A	Machining Applications II Lab	6	2
MAC-222	Advanced CNC Turning	4	2
MAC-231		5	3
	Semester Total	21	13

Second Year

Summer 6th Semester

COURSE NUMBER	COURSE TITLE	CONTACT HOURS	CREDIT HOURS
MAC-143A	Machining Applications III Lab	6	2

COURSE NUMBER	COURSE TITLE	CONTACT HOURS	CREDIT HOURS
<i>Choose one of the following:</i>			
ISC-112	Industrial Safety	2	2
WBL-112	Work-Based Learning I	20	2
	Semester Total	8-26	4
	TOTAL CREDITS		60