

TO:

Beaufort County Community College

P.O. Box 1069 Washington, NC 27889

MEMORANDUM

Wesley Beddard Dean of Instruction

FROM:	Riley Mills	echno	ology		
	Matthew Lincoln MV Machinist Instructor				
DATE:	April 19, 2012				
RE:	Curriculum Committee – Catalog Change to Technology				1000
students in fin	o area industries, we feel these changes belo ding employment in the machinist field. Ple al Engineering Technology Certificates and	ase se	e the atta		
Machinist Din	oloma D40320 for a total of 43 hours (previo	usly a	1 10 hours	,	
	PR 111, Blueprint Reading I	1	2		
	PR 121, Blueprint Reading II	1	2	2 2	
Add D	1 K 121, Bluepink Reading II	1	2		
Machining Te	chnology Certificate C40320 for a total of 1	7 hour	rs (previ	ously 1	hours)
Add B	PR 111, Blueprint Reading I	1	2	2.	110 (110)
	IEC 180, Engineering Materials	2	3	3	
	DFT 111, Technical Drafting I	1	3	2 3 2	
	DFT 111A, Technical Drafting I Lab	0	3	1	
Machining Ad	Ivanced Certificate C40320B for a total of 1		-		hours)
	PR 121, Blueprint Reading II	1	2	2	
	FT 111, Technical Drafting I	1	3	2	
	FT 111A, Technical Drafting I Lab	0	3	1	
Delete	MEC 180 Engineering Materials	2	3	3	

Industrial Technology Division
An equal opportunity affirmative action institution

Machinist Diploma D40320

The Machinist diploma is designed to develop skills in the safe use of hand tools, power machinery, computerized equipment, and precision measuring instruments.

Students will learn to interpret blueprints, set-up manual and computer numerical controlled machining equipment, perform basic machining operations, and to ensure product quality is maintained.

Student should gain necessary skills to obtain entry-level employment in manufacturing industries, government agencies, and specialty machine shops.

All courses* in this diploma program may be applied toward completion of the Associate of Applied Science degree in Mechanical Engineering Technology.

Prefix &				Clinical/	
Number	Description	Class	Lab	Shop	Credit
BPR 111	Blueprint Reading I	1	2	0	2
BPR 121	Blueprint Reading II	1	2	0	2
DFT 111	Technical Drafting I	1	3	0	2
DFT 111A	Technical Drafting I	0	3	0	1
DFT 151	CADI	2	3	0	3
ENG 102	Applied Communications I*	3	0	0	3
ISC 112	Industrial Safety	2	0	0	2
MAC 111	Machining Technology I	2	12	0	6
MAC 112	Machining Technology II	2	12	0	6
MAC 113	Machining Technology III	2	12	0	6
MAC 121	Introduction to CNC	2	0	0	2
MAT 115	Mathematical Models*	2	2	0	3
MEC 128	CNC Machining Process	2	4	0	4
MEC 231	Comp-Aided Manufacturing I	1	4	0	3
	Total	alar 00	ΕO	0	45
	Tota	als: 23	59	0	45
	Diploma Total				45

^{*}Students planning to pursue the Associate in Applied Science Degree should enroll in ENG 111 Expository Writing and MAT 121 Algebra/Trigonometry I.

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Prefix & Number	Description	Class	Lab	Clinical/ Shop	Credit
DFT 111	Technical Drafting I	1	3	0	2
DFT 111A	Technical Drafting I	0	3	0	1
DFT 151	CADI	2	3	0	3
ENG 102	Applied Communications I*	3	0	0	3
ISC 112	Industrial Safety	2	0	0	2
MAC 111	Machining Technology I	2	12	0	6
MAC 112	Machining Technology II	2	12	0	6
MAC 113	Machining Technology III	2	12	0	6
MAC 121	Introduction to CNC	2	0	0	2
MAT 115	Mathematical Models*	2	2	0	3
MEC 128	CNC Machining Process	2	4	0	4
MEC 231	Comp-Aided Manufacturing I	1	4	0	3
	Totals	: 21	55	0	41
	Diploma Total				41

^{*}Students planning to pursue the Associate in Applied Science Degree should enroll in ENG 111 Expository Writing and MAT 121 Algebra/Trigonometry I.

Machinist Certificate C40320

The Machining Technology certificate is designed to develop basic skills in the safe use of hand tools, machine tools, and precision measuring instruments.

Students will gain basic knowledge in technical drafting, engine lathe and milling machine operations, precision grinding, and precision measuring.

Students should gain necessary skills to obtain entry-level jobs in manufacturing industries and specialty machine shops.

All courses in this certificate program may be applied toward completion of the Machinists diploma and the Associate of Applied Science degree in Mechanical Engineering Technology.

Prefix & Number	Description		Class	Lab	Clinical/ Shop	Credit
BPR 111	Pluoprint Pooding		1	2	0	2
MEC 180	Blueprint Reading Engineering Materials		2	3	0	3
MAC 111	Machining Technology I		2	12	0	6
MAC 112	Machining Technology II		2	12	0	6
		Totals:	7	29	0	17
	Certificate Total					17

Machinist Certificate C40320

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Students will gain basic knowledge in technical drafting, engine lathe and milling machine operations, precision grinding, and precision measuring.

Students should gain necessary skills to obtain entry-level jobs in manufacturing industries and specialty machine shops.

All courses in this certificate program may be applied toward completion of the Machinists diploma and the Associate of Applied Science degree in Mechanical Engineering Technology.

Prefix & Number	Description		Class	Lab	Clinical/ Shop	Credit
DFT 111 DFT 111A ISC 112 MAC 111 MAC 112	Technical Drafting I Technical Drafting I Lab Industrial Safety Machining Technology I Machining Technology II		1 0 2 2 2	3 0 12 12	0 0 0 0	2 1 2 6 6
		Totals:	7	30	0	17
	Certificate Total					17

Machinist Advanced Certificate C40320B

The Machining Advanced certificate is designed to develop basic skills in the safe use of machine tools both conventional and computer numerical control. This certificate incorporates skills learned in a design project selected by the student and approved by the instructor.

Students should gain necessary skills to obtain entry-level employment in manufacturing and machining industries.

All courses in this certificate program may be applied toward completion of the Machinists diploma and the Associate of Applied Science degree in Mechanical Engineering Technology.

NOTE: The Machining Technology certificate must be completed before enrolling in Machining Advanced certificate.

Prefix & Number	Description		Class	Lab	Clinical/ Shop	Credit
BPR 121	Blueprint Reading II		1	2	0	2
DFT 111	Technical Drafting I		1	3		2
DFT 111A	Technical Drafting I Lab		0	3	0	1
MAC 113	Machining Technology III		2	12	0	6
MAC 121	Introduction to CNC	F 60	2	0	0	2
MEC 128	CNC Machining Process		2	4	0	4
		Totals:	8	24	0	17
	Certificate Total					17

Machinist Advanced Certificate C40320B

The Machining Advanced certificate is designed to develop basic skills in the safe use of machine tools both conventional and computer numerical control. This certificate incorporates skills learned in a design project selected by the student and approved by the instructor.

Students should gain necessary skills to obtain entry-level employment in manufacturing and machining industries.

All courses in this certificate program may be applied toward completion of the Machinists diploma and the Associate of Applied Science degree in Mechanical Engineering Technology.

NOTE: The Machining Technology certificate must be completed before enrolling in Machining Advanced certificate.

Prefix & Number	Description		Class	Lab	Clinical/ Shop	Credit
MAC 113 MAC 121 MEC 128 MEC 180	Machining Technology III Introduction to CNC CNC Machining Process Engineering Materials		2 2 2 2	12 0 4 3	0 0 0 0	6 2 4 3
		Totals:	8	19	0	15
	Certificate Total					15