

CNC MACHINING

Program Description

The Blong Technology Center (BTC) offers manual machining and Computer Numerical Control (CNC) machining. Certificate programs are available in both manual and CNC programming; the Associate of Applied Science degree program is available in CNC machining. Learning is hands-on in the modern laboratory furnished with the same types of equipment used by local manufacturing plants. Classes are offered in an eight-week format with a flexible schedule of attendance during day and evening hours (subject to sufficient enrollment).

Award Options

CNC Machining Associate of Applied Science

CNC Programming Certificate

Manual Machining Certificate

Job Outlook

Overall employment of computer control programmers and operators is expected to increase by 4 percent over the 2010-20 period, which is slower than average for all occupations. Employment of computer controlled machine tool operators, metal and plastic is expected to increase by 7 percent, which is about as fast as the average for all occupations. The increasing use of CNC machine tools in all sectors of the manufacturing industry, replacing older mechanical metal and plastic working machines, will increase demand for computer-controlled machine tool operators. Median hourly wages of computer-controlled machine tool operators, metal and plastic, are \$22.08. The middle 50 percent earned between \$17.60 and \$28.03.

For details, please visit this link <http://www.bls.gov/ooh/>



THE *Community's College*



BLONG TECHNOLOGY CENTER

Program Faculty

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CNC MACHINING

CNC Machining AAS Degree

TERM 1

Session I

CSC:112	Computer Fundamentals for Technology I/A	2.00
MAT:733	Math for Technologies A	1.50
MFG:186	Plant Safety	1.00

Session II

CSC:113	Computer Fundamentals for Technology I/B	2.00
MAT:734	Math for Technologies B	1.50
MFG:105	Machine Shop Measuring	3.00
MFG:192	Blueprint Reading	3.00
		<u>14.00</u>

TERM 2

Session I

IND:222	Geometric Tolerancing and Dimensioning	3.00
MFG:112	Drills and Saws	2.00
MFG:116	Carbide Tooling	1.00

Session II

MFG:113	Vertical and Horizontal Mills	5.50
MFG:115	Lathe Work	4.50
		<u>16.00</u>

Term 2 Optional Course

MFG:140	Geometric Dimensioning and Tolerances	1.00
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TERM 3 – SUMMER

____:____	*Humanities Elective	3.00
MFG:111	Machinery Handbook	1.00
MFG:117	Cylindrical Grinding	1.50
MFG:190	Metallurgy	2.00
		<u>7.50</u>

TERM 4

Session I

ENG:105	Composition I OR	3.00
ENG:107	Composition I: Technical Writing	
MFG:151	CNC Fundamentals	2.00
PHY:185	Conceptual Physics Fundamentals I	2.00

Session II

MFG:114	Surface Grinding	2.75
MFG:118	Machine Tool Project	4.00
PHY:186	Conceptual Physics Fundamentals II	2.00
		<u>15.75</u>

Credits

Clinton Community College

1000 Lincoln Boulevard,
Clinton, IA 52732
563-244-7001
1-800-638-0559

www.facebook.com/clintoncommunitycollegeia

Admissions Officer

Heather Evans

hlevans@eicc.edu
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Muscatine Community College

152 Colorado Street,
Muscatine, IA 52761
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1-800-351-4669

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Admissions Officer

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Scott Community College

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Admissions Officer

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It is the policy of Eastern Iowa Community College District not to discriminate in its programs, activities, or employment on the basis of race, color, national origin, sex, disability, age, sexual orientation, gender identity, creed, religion, and actual or potential family, parental or marital status, as required by the Iowa Code §§216.6 and 216.9, Titles VI and VII of the Civil Rights Act of 1964 (42 U.S.C. §§ 2000d and 2000e), the Equal Pay Act of 1973 (29 U.S.C. § 206, et seq.), Title IX (Educational Amendments, 20 U.S.C. §§ 1681-1688), Section 504 (Rehabilitation Act of 1973, 29 U.S.C. § 794), and Title II of the Americans with Disabilities Act (42 U.S.C. § 12101, et seq.).

If you have questions or complaints related to compliance with this policy, please contact Debora J. Sullivan, Equal Employment Opportunity Officer/Equity Coordinator, Eastern Iowa Community College District, 101 West Third Street, Davenport, Iowa 52801, 563-336-3487, djsullivan@eicc.edu or the Director of the Office for Civil Rights, U.S. Department of Education, Citigroup Center, 500 West Madison Street, Suite 1475, Chicago, Illinois 60661-7204, phone number 312-730-1560, fax 312-730-1576, OCR. Chicago@ed.gov.

TERM 5

Session I

MFG:201	CNC Turning Operator	2.00
MFG:221	CNC Milling Operator	2.00
MFG:223	CAD/CAM	2.00
MFG:224	Coordinate Measuring Machine (CMM)	1.00

Session II

MFG:205	Mill Programming	2.00
MFG:239	Lathe Programming	2.00
MFG:372	SolidWorks/MasterCam Applications	3.00
		<u>14.00</u>

TERM 6

Session I

MFG:229	CNC Project	4.00
		<u>4.00</u>

CNC Machining AAS Total **71.25**

*HUMANITIES ELECTIVE

(Select one course from the following)

ECN:120	Principles of Macroeconomics	3.00
ECN:130	Principles of Microeconomics	3.00
HUM:105	Working in America	3.00
HUM:110	Changes and Choices	3.00
POL:111	American National Government	3.00
PSY:111	Introduction to Psychology	3.00
SOC:110	Introduction to Sociology	3.00

CNC Programming Certificate

TERM 1

		Credits
IND:222	Geometric Tolerancing and Dimensioning	3.00
MAT:733	Math for Technologies A	1.50
MAT:734	Math for Technologies B	1.50
MFG:105	Machine Shop Measuring	3.00
MFG:116	Carbide Tooling	1.00
MFG:186	Plant Safety	1.00
MFG:192	Blueprint Reading	3.00
		<u>14.00</u>

TERM 2

MFG:151	CNC Fundamentals	2.00
MFG:201	CNC Turning Operator	2.00
MFG:205	Milling Programming	2.00
MFG:221	CNC Milling Operator	2.00
MFG:223	CAD/CAM	2.00
MFG:224	Coordinate Measuring Machine (CMM)	1.00
MFG:239	Lathe Programming	2.00
		<u>13.00</u>

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TERM 3 – SUMMER

MFG:229 CNC Project

Credits

4.00

4.00

CNC Programming Certificate Total31.00

Manual Machining Certificate

TERM 1

Session I

MAT:733 Math for Technologies A 1.50

MFG:116 Carbide Tooling 1.00

MFG:186 Plant Safety 1.00

MFG:192 Blueprint Reading 3.00

Session II

MAT:734 Math for Technologies B 1.50

MFG:105 Machine Shop Measuring 3.00

11.00

TERM 2

Session I

MFG:112 Drills and Saws 2.00

Session II

MFG:113 Vertical/Horizontal Mills 5.50

MFG:115 Lathe Work 4.50

12.00

TERM 3

Session I

MFG:114 Surface Grinding 2.75

MFG:117 Cylindrical Grinding 1.50

Session II

MFG:118 Machine Tool Project 4.00

8.25

Manual Machining Certificate Total31.25

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