

# Manufacturing Technology: Machining Technology (Fall 2011)

Updated 6/23/2011

Student Name \_\_\_\_\_

## Student Advisement Checklist

Students must complete all preparatory classes to earn a Degree, Diploma, and/or Certificate. (Co or Prerequisite(s) in parentheses)

Writing Score _____	Numerical Score _____	Elementary Algebra Score _____	Reading Score _____	Computer Score _____
___ Basic Skills (0-29) [20-40] ___ ENG 080 (30-34) [41-65] ___ ENG 090/090A (35-40) [66-85] ___ ENG 111(≥ 41) [ ≥ 86]	___ Basic Skills (0-29) [20-29] ___ MAT 060 (30-37) [30-54] ___ MAT 060 <b>NOT Needed</b> (≥41) [ ≥ 55]	___ MAT 070 (23-40) [< 55] ___ MAT 120(≥ 41) [ ≥ 55]	___ Basic Skills (0-29) [20-38] ___ RED 080 (30-34) [39-56] ___ RED 090 (35-40) [57-79] <b>No reading required</b> (≥41) [ ≥ 80]	___ CTS 080 (0-59) ___ 60 or higher CIS 110 or CIS 111 ___ Web courses (≥70) ___ ≥ 85 may challenge CIS 111
___ ACA 115 (If two or more Preparatory Courses needed) <b>Scores in ( )</b> are Asset Scores <b>Scores in [ ]</b> are Accuplacer Scores    Computer Score <b>Based on SAMS Challenge</b>				

A.A.S. Degree		A50320M	
Complete	Course	Credit	
<b>1st Fall</b>			
	MAT 120	Geometry and Trigonometry (MAT 070)	3
	CIS 115	Introduction to Programming and Logic (CIS 110 and MAT 070)	3
	MAC 151	Machining Calculations (MAT 070)	2
	BPR 111	Blueprint Reading (ENG 085 and CTS 080)	2
	MAC 141	Machining Applications I (ENG 085 and CTS 080)	4
	DFT 121	Introduction to Geometric Dimensioning and Tolerance (ENG 085 and CTS 080)	2
<b>1st Spring</b>			
	ISC 212	Metrology (ENG 085 and CTS 080)	2
	MEC 145	Manufacturing Materials I (ENG 085 and CTS 080)	3
	BPR 121	Blueprint Reading: Mechanical (BPR 111)	2
	MAC 142	Machining Applications II (MAC 141)	4
	MAC 152	Advanced Machining Calculations (MAC 151)	2
	ISC 135	Principles of Industrial Management (ENG 085 and CTS 080)	3
<b>1st Summer</b>			
	ENG 111	Expository Writing (ENG 095 and CTS 080)	3
	ISC 112	Industrial Safety (ENG 085 and CTS 080)	2
	MAC 121	Introduction to CNC (ENG 085 and CTS 080)	2
<b>2nd Fall</b>			
	MEC 172	Introduction to Metallurgy (ENG 085 and CTS 080)	3
	ENG 114	Professional Research & Reporting (ENG 111)	3
	DFT 151	Computer Aided Drafting (ENG 085 and CTS 080)	3
	MAC 122	CNC Turning (MAC 121)	2
	MAC 124	CNC Milling (MAC 121)	2
	PSY 150	Introduction to Psychology (ENG 095 and CTS 080)	3
<b>2nd Spring</b>			
	ISC 132	Manufacturing Quality Control (ENG 085 and CTS 080)	3
	ISC 220	Lean Manufacturing (ENG 085 and CTS 080)	3
	MAC 229	CNC Programming (MAC 121)	2
	MAC 222	Advanced CNC Turning (MAC 122)	2
	MAC 224	Advanced CNC Milling (MAC 124)	2
	HUM XXX	Humanities Elective (ENG 095 and CTS 080)	3
<b>TOTAL CREDIT HOURS</b>			<b>70</b>

Diploma		D50320M	
Complete	Course	Credit	
<b>1st Fall</b>			
	MAT 120	Geometry and Trigonometry (MAT 070)	3
	BPR 111	Blueprint Reading (ENG 085 and CTS 080)	2
	DFT 121	Introduction to Geometric Dimensioning and Tolerance (ENG 085 and CTS 080)	2
	MAC 151	Machining Calculations (MAT 070)	2
	MAC 141	Machining Applications I (ENG 085 and CTS 080)	4
<b>1st Spring</b>			
	ISC 212	Metrology (ENG 085 and CTS 080)	2
	BPR 121	Blueprint Reading: Mechanical (BPR 111)	2
	ISC 132	Manufacturing Quality Control (ENG 085 and CTS 080)	3
	ISC 220	Lean Manufacturing (ENG 085 and CTS 080)	3
	MAC 142	Machining Applications II (MAC 141)	4
	MAC 152	Advanced Machining Calculations (MAC 151)	2
<b>1st Summer</b>			
	ENG 102	Applied Communications II (ENG 085 and CTS 080)	3
	ISC 112	Industrial Safety (ENG 085 and CTS 080)	2
<b>TOTAL CREDIT HOURS</b>			<b>34</b>

Certificate: CNC Operations		C50320C	
Complete	Course	Credit	
	BPR 111	Blueprint Reading (ENG 085 and CTS 080)	2
	ISC 212	Metrology (ENG 085 and CTS 080)	2
	DFT 121	Introduction to Geometric Dimensioning and Tolerance (ENG 085 and CTS 080)	2
	MAC 151	Machining Calculations (MAT 070)	2
	MAC 121	Introduction to CNC (ENG 085 and CTS 080)	2
	MAC 122	CNC Turning (ENG 085 and CTS 080)	2
	MAC 124	CNC Milling (ENG 085 and CTS 080)	2
<b>TOTAL CREDIT HOURS</b>			<b>14</b>

over →

<b>Certificate: Advanced CNC Operations</b>		<b>C50320A</b>
<b>Complete</b>	<b>Course</b>	<b>Credit</b>
	BPR 121 Blueprint Reading: Mechanical (BPR 111)	2
	MAC 152 Advanced Machining Calculations (MAC 151)	2
	MAC 229 CNC Programming (MAC 121)	2
	MEC 145 Manufacturing Materials I (ENG 085 and CTS 080)	3
	MAC 222 Advanced CNC Turning (MAC 122)	2
	MAC 224 Advanced CNC Milling (MAC 124)	2
<b>TOTAL CREDIT HOURS</b>		<b>13</b>