



## Machine Tool Technology AAS Program Course Requirements 2010-2011

**Student Name** \_\_\_\_\_ **Student ID#** \_\_\_\_\_

Course #	Course Title	Credits	Lecture Hrs	Lab Hrs
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### REQUIRED COURSES

___ MATH 1500	Applied Mathematics	3	3	0
___ MDFT 1110	Introduction to Parametric Modeling	2	1	2
___ MTRD 1160	CNC Setup and Operation	4	0	8
___ MTRD 1215	Intro to Milling Operations	3	1	4
___ MTRD 1221	Intro to Lathe Operations	2	0	4
___ MTRD 1265	CNC Programming and Process Planning	2	2	0
___ MTRD 2141	Geometric Tolerancing	1	1	0
___ MTRD 2144	Advanced CAD/CAM	2	2	0
___ MTRD 2145	Advanced CNC Milling Operations	3	0	6
___ MTRD 2147	Advanced CNC Turning Operations	2	0	4
___ MTRD 2154	CNC Operation	3	1	4
___ MTRD 2160	CAD/CAM	3	3	0
___ MTRD 2162	Workholding and Fixturing	3	1	4
___ MTRD 2221	CNC Milling Operations	5	1	8
___ MTRD 2223	CNC Turning Operations	2	1	2
___ RAST 1110	Introduction to Manufacturing	2	2	0
___ RAST 2150	Introduction to Robot Operations	2	1	2
	<b>Total</b>	<b>44</b>		

### GENERAL EDUCATION

Students must complete the requirement listed in the AAS Degree/General Education Transfer Curriculum document.

<b>Total</b>	<b>16</b>
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<b>GRADUATION REQUIREMENT</b>	<b>60</b>
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\*Denotes Prerequisites

**Evaluator** \_\_\_\_\_ **Date** \_\_\_\_\_



## Machine Tool Technology AAS Program Course Requirements 2010-2011

Course #	Course Title	Credits	Lecture Hrs	Lab Hrs
<b>FIRST SEMESTER</b>				
MATH 1500	Applied Mathematics	3	3	0
MTRD 1160	CNC Setup and Operation	4	0	8
MTRD 1215	Intro to Milling Operations	3	1	4
MTRD 1221	Intro to Lathe Operations	2	0	4
MTRD 1265	CNC Programming and Process Planning	2	2	0
RAST 1110	Introduction to Manufacturing	2	2	0
MDFT 1110	Introduction to Parametric Modeling	2	1	2
	<b>Total</b>	<b>18</b>		
<b>SECOND SEMESTER</b>				
MTRD 2154	CNC Operations	3	1	2
MTRD 2160	CAD/CAM	3	3	0
MTRD 2162	Workholding and Fixturing	3	1	4
MTRD 2221	CNC Milling Operations	5	1	8
MTRD 2223	CNC Turning Operations	2	1	4
RAST 2150	Introduction to Robot Operations	2	1	2
	<b>Total</b>	<b>18</b>		
<b>THIRD SEMESTER</b>				
MTRD 2141	Geometric Tolerancing	1	1	0
MTRD 2144	Advanced CAD/CAM	2	2	0
MTRD 2145	Advanced CNC Milling Operations	3	0	6
MTRD 2147	Advanced CNC Turning Operations	2	0	4
	<b>Total</b>	<b>8</b>		
<b>SECOND YEAR</b>				
<b>FALL SEMESTER</b>				
	General Education	16		
<b>GRADUATION REQUIREMENT</b>		<b>60</b>		

\*Denotes Prerequisites

*In order to receive a degree, diploma, or certificate from Central Lakes College, students must complete one-third of their credits at Central Lakes College. For programs exceeding 60 credits, a maximum of 20 semester credits must be completed at Central Lakes College.*

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