

**Associate of Applied Science – 71 Credits  
Computer Aided Manufacturing**

<b>Name:</b>	<b>Date of Entry:</b>	<b>Advisor:</b>
<b>Dual Major With:</b>	<b>Academic Plan Advisor:</b>	
<b>Transferred From:</b>		
<b>Credit Hours Transferred In:</b>	Must complete 1/3 of degree through Helena College	

Course #	Course Title	CR	Pre - Requisites	SEM	Grade	Comments
<b>First Semester (18 Credits)</b>						
MCH 120	Blueprint Read and Interpretation	2	MCH130 (Co-req)			
MCH 130	Machine Shop	3				
MCH 132	Intro to Engine Lathes	5				
MCH 134	Intro to Mills	5	MCH130 (Co-req)			
M111T	Technical Mathematics	3	MCH 130 (Co-req)			
<b>Second Semester (19 Credits)</b>						
MCH 136	Advanced Lathes	5	MCH 132			
MCH 137	Advanced Mills	5	MCH 132			
MCH 139	Grinding Applications	2				
MCH 240	Metallurgy	2	MCH 130			
MCH 245	Shop Practices 2	2	MCH 120, 130, 132, and 134			
WRIT 121T	Intro to Tech Writing	3	WRIT 096 if placement score indicates such			
**COMX 106 (for CAS)	Communicating in a Dynamic Workplace	2				
<b>Third Semester (16 Credits)</b>						
Completion of the first year (first and second semester) is the pre-requisite for the second year.						
MCH 230	Tooling and Fixtures in CNC	2				
MCH 231	CNC Turning Operations Level 1	4	MCH 230 (Co-req) MCH 136 (Pre-req)			
MCH 232	CNC Turning Programming Operations Level 2	3	MCH 231 (Co-req)			
MCH 234	CNC Milling Operations Level 1	4	MCH 230 (Co-req) MCH 137			
MCH 235	CNC Milling Programming Operations Level 2	3	MCH 234 (Co-req)			
<b>Fourth Semester (18 Credits)</b>						
MCH 233	CNC Turning Programming Operations Level 3	3	MCH231 and MCH232			
MCH 236	CNC Milling Programming Operations Level 3	3	MCH234 and MCH235			
MCH 237	CAD/CAM CNC Turning Center	5	MCH233 (Co-req)			
MCH 238	CAD/CAM CNC Machining Center	5	MCH236 (Co-req)			
**COMX 106 (may be taken in 4 <sup>th</sup> semester for AAS)	Communicating in a Dynamic Workplace	2				
<b>Developmental Coursework:</b>						

\*\* Students should take COMX106 in their first year spring semester if they are not completely sure if they are getting a CAS or an AAS so that all of their general education requirements are completed within the first year.