

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

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

Course #	Course Title	CR	Pre - Requisites	SEM	Grade	Comments
First Semester (18 Credits)						
MCH 120	Blueprint Read and Interp	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 Math	3	MCH 130 (Co-req)			
*(COMX 106 if only completing the CAS)						
Second Semester (19 Credits)						
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			
Third Semester (16 Credits)						
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 Turn Operations Level 1	4	MCH 230 (Co-req) MCH 136 (Pre-req)			
MCH 232	CNC Turn Program Opera 2	3	MCH 231 (Co-req)			
MCH 234	Milling Operations Level 1	4	MCH 230 (Co-req) MCH 137			
MCH 235	CNC Millings Programming Operations	3	MCH 234 (Co-req)			
Fourth Semester (18 Credits)						
MCH 233	CNC Turning Programming Operations 3	3	MCH231 and MCH232			
MCH 236	CNC Milling Programming Operations 3	3				
MCH 237	CAD/CAM CNC Turning Center	5	MCH233 (Co-req)			
MCH 238	CAD/CAM CNC Machining Center 5	5	MCH236 (Co-req)			
COMX 106	Communicating in a Dynamic Workplace	2				
Developmental Coursework:						

** 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.