

**Courses Offered for the University of Manitoba/RRC
Mechanical Engineering Hybrid Program**

UM University Course		Cred Hrs		Red River College Equivalent
Course Code	Course Name		Existing Transfers	Comments
YEAR 1				
CHEM1300	University Chemistry 1	3		
ENGL 1340	Int. Literary Analysis	3		
MATH 1510 or 1500	Applied Calculus 1	3	MATH 1074 Calculus	MATH 1074 = MATH 1500
COMP 1012	Computing for Engrs.	3		
PHYS 1050	Physics – Mechanics	3		
MATH 1210	Tech. of Classical/Linear Algebra	3		
MATH 1710 or 1700	Applied Calculus 2	3		
	CSE – Yr1 Arts or Mgmt	3		
ENG 1440	Intro to Statics	3	ENGI 1043 Applied Mechanics	
ENG 1460	Intro. Thermal Sciences	3	ENGI 1159 Thermodynamics	
ENG 1430	Design in Engineering	3		
ENG 1450	Intro. To Elect & Comp Tech	3	ENGI 1048 + ELEC 1061 + ENGI 1076	
YEAR 2				
ENG 2030 or 2040	Engineering Communication	3	COMM 1234 + ENGI 1051	Credit given for ENG 2030
MATH 2130	Engineering Math Analysis I	3		
MATH 2132	Engineering Math Analysis 2	3		
MECH 2150	Numerical Methods for Engrs	4	COMP 1153	
MECH 2012	CAD & Mfg Processes	4		
MECH 2022	Thermodynamics			
MECH 2222	Mechanics of Materials	4	ENGI 1152 Strength of Matls	
MECH 2262	Fluid Mechanics	4	ENGI 1037 Fluid Mechanics	
MECH 2272	Engineering materials 1	4	ENGI 1046 + ENGI 1101	
STAT 2220	Statistics for Engineers	3	MATH 1017 Applied Statistics	
CHEM 1310	Applied Chem for Engineers			
YEAR 3				
MATH 3132	Engr Math Analysis 3			
MECH 3170	Project management	4		
MECH 3420	Vibrations & Acoustics			
MECH 3430	Measurements & Control			
MECH 3460	Heat Transfer			
MECH 3482	Kinematics and Dynamics			
MECH 3492	Fluid Mech & Applications			
MECH 3502	Stress Anal & Design			
MECH 3542	Engineering Materials 2			
MECH 3980	Mechanical Lab			
	CSE			
MECH 4412	Technical Elective #1 HVAC	4	ENGI 1005 + ENGI 2006 Air Cond 1&2	Evaluated on an individual basis
YEAR 4				
ENG 3000	Engineering Economics		MGMT 1008	
ENG 3020	Technology & Society			
ECE 3010	Elem of Elec Mach & Digital			
MECH 4650	Machine Design 4M			
MECH 4860	Engineering Design			
PHYS 1070	Waves & Modern Physics			
	Technical Elective #2			
	Technical Elective #3			
	Technical Elective #4			
	Technical Elective #5			
Total No. of Courses Transferred			12	
Total Number of Credit Hours Transferred			38	
Approx. tot. No. of Cred Hrs in Program (min.)			157 - 159	