

Courses Offered for the University of Manitoba/RRC Electrical Engineering Hybrid Pathway

UM University Course		Credit Hours	Red River College Equivalent		Comments
			Electrical Technology	Electronic Technology	
Course Code	Course Name				
YEAR 1					
CHEM1300	University Chemistry 1	3			
ENGL 1340	Int. Literary Analysis	3			
MATH 1510 or 1500	Applied Calculus 1	3	MATH 2000	MATH 2000	MATH 2000 = MATH 1500 and 1700
COMP 1012	Computing for Engrs.	3			
PHYS 1050	Physics – Mechanics	3			
MATH 1210	Tech. of Classical/Linear Alg	3			
MATH 1710 or 1700	Applied Calculus 2	3	MATH 2000	MATH 2000	MATH 2000 = MATH 1500 and 1700
	CSE 1 – Yr1 Arts or Mgmt	3	ETHC 1002	ETHC 1002	ETHC 1002 = PHIL 1XXX which fulfills CSE requirements
ENG 1440	Intro to Statics	3			
ENG 1460	Intro. Thermal Sciences	3			
ENG 1430	Design in Engineering	3			
ENG 1450	Intro. To Elect & Comp Tech	3	CIRC 1034 & DIGI 1030	CIRC 1034 & DIGI 1030	
YEAR 2					
ENG 2030 or 2040	Engineering Communication	3	COMM 1043 + 3005 (+ PROJ 3002)	COMM 1043 + 3005 (+ PROJ 3000)	Credit given for ENG 2030
MATH 2130	Engineering Math Analysis I	3			
MATH 2132	Engineering Math Analysis 2	3			
MATH 2132	Engineering Math Analysis 3	3			
ANTH 2430	Ecology, Tech & Society	3			
PHYS 2152	Modern Physics for Engineers	3			
ECE2240	Numerical Methods for EE	4			
ECE2262	Electric Circuits	4	CIRC2000 + PROJ 3002	CIRC 2000 + PROJ 3000	
ECE2220	Digital Logic Systems	5		DIGI 2224	
ECE 2160	Electronics 2E	5	DEVC 2000 + 2003	DEVC 2000 + 2008	
ECE 3610	Micro processing Systems	4			
YEAR 3					
ECE 3580	Foundations of E.M.	4			
STAT 2220	Statistics for Engineers	3			
ECE 3780	Signal Processing 1	4			
ECE 3720	Electric Power & Machines	4	MACH 2772 & TRAN 1000		
ECE 3670	Electronics 3E	4			
ECE 3590	E.M. Theory	4			
ECE 3600	Physical Electronics	4			
ECE 4260	Communications Systems	4			
ECE 3540	Advanced Circuit Anal & Des	4			
ECE 3730	Prin. Embedded Sys. Design	4			
	Technical Elective No. 1	4			
Year 4					
CIVL 4050	Engineering Economics	3			
ECE 4600	Group Design Project	6			
ECE 4150	Control Systems	4			
	Technical Electives 2 to 7	Min 21			
	Natural Science Elective	3			
	CSE 2 – Yr 1 Arts or Mgmt	3			
Total No. of Courses Transferred			8	8	
Total Number of Credit Hours Transferred			33	29	
Approx. total Number of Credit Hours in Program (min.)		159 - 162			

Special Note: Each student transferring in this program must have CEAB/AU calculations completed to ensure compliance.

Revised Jan 2016