

**Courses Transferrable from Brandon University to
University of Manitoba Engineering Program**

Brandon University Course		Year	Civil	Mech	Elec	Comp	Biosys	University of Manitoba Equivalent	
Course Code	Course Name							Course Code	Course Name
YEAR 1									
CHEM 18.160	General Chemistry I	Year 1	3	3	3	3	3	CHEM 1300	University Chemistry 1
ENGL 30.162 Or ENGL 30.146	Intro Canadian Literature Intro English Literature	Year 1	3	3	3	3	3	ENGL 1400 ENGL 1200	Thematic Approaches Representative Literary Works
MATH 62.181	Intro Calculus I	Year 1	3	3	3	3	3	MATH 1500	Intro Calculus 1
MATH 62.191	Calculus II	Year 1	3	3	3	3	3	MATH 1700	Calculus 2
	Complimentary Studies Elective #1 (Any Arts or Management Course)	Year 1	3	3	3	3	3		See list of possible Complimentary Studies Electives
PHYS 74.161	Foundations of Physics 1	Year 1	3	3	3	3	3	PHYS 1050	Physics – Mechanics
	Complimentary Studies Elective #2 (Any Arts or Management Course)		3	3	3	3	3		See list of possible Complimentary Studies Electives
	Free Elective #1						3		Free Elective – can be any course of interest that has a UM equivalency
GEOL 42.160	Intro to Earth Science		3					GEOL 1340	Dynamic Earth
YEAR 2									
CHEM 18.170	General Chemistry II	Year 2	3	3	3*	3*	3	CHEM 1310	University Chemistry 2 *Natural Science Elective
STAT 62.171 and STAT 62.172	Intro to Statistics Intro to Statistical Inference	Year 2	3	3	3	3	3	STAT 1000 STAT 2000	Basic Statistics 1 Basic Statistics 2
BIOL 15.264	Medical Microbiology						3	MBIO 1220	Essentials of Microbiology
BIOL 15.171 and BIOL 15.172	Human Anat. and Physiology 1 Human Anat. and Physiology 2	Year 2					3	BIOL 1410 And BIOL 1412	Anatomy of Human Body and Physiology of the Human Body
BIOL 15.162 and BIOL 15.163	Cells, Genetics and Evolution Biodiversity/Function/Interaction						3	BIOE 2590	Biology for Engineers
	Natural Science Elective					3			Natural Science Elective – see list for selection of courses
COMP 62.161	Computer Science II	Year 2				3		COMP 1020	Computer Science 2
	Complimentary Studies Elective #3 (Any Arts or Management Course)					3			See list of possible Complimentary Studies Electives
	Free Elective #2						3		Free Elective – can be any course of interest that has a UM equivalency
Total No. of Courses Transferred			10	9	9	11	16		
Total Number of Credit Hours Transferred			30	27	27	33	48		
Approx. total Number of Credit Hours in Program (min.)			164	157-159	159-160	157-161	150-154		

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

Complimentary Studies Elective possibilities:
(Any Arts or Management Course)

Brandon University	University of Manitoba Equivalent			
Course	Credit Hrs.	Course	Credit Hrs.	Comments
ANTH 12.153 Intro Cultural Anthropology	3	ANTH 1220 Cultural Anthro	3	Last assessed Summer 2011
ANTH 12.170 Society And Culture	3	ANTH 1220 Cultural Anthro	3	Last assessed Fall 2011
ANTH 12.173 Human Origins	3	ANTH 1210 Orig&Ant of Man	3	Last assessed Summer 2011
BUS 16.151 Financial Accounting	3	ACC 1100 Intro Fin Acctg	3	Last assessed Fall 2011
BUS 16.180 Intro Information Mgmt	3	MIS 2000 Information Sys	3	Last assessed Fall 2015
BUS 16.261 Marketing Fundamentals	3	MKT 2210 Fund Marketing	3	Last assessed Fall 2011
BUS 16.262 Intro Organizational Behaviour	3	GMGT 2070 Intro Org Beh	3	Last assessed Winter 2012
BUS 16.294 Business Law II	3	GMGT 3300 Commercial Law	3	Last assessed Fall 2016
ECON 22.181 Principles of Econ - Macro	3	ECON 1020 Intro Macroeconomics	3	Last assessed Winter 2012
ECON 22.182 Principles of Econ - Micro	3	ECON 1010 Intro Microeconomics	3	Last assessed Winter 2012
ENGL 30.146 Intro English Literature	6	ENGL 1200 Rep Lit Works	6	Last assessed Fall 2015
ENGL 30.161 20th Century Literature	3	ENGL 1XXX Transfer 1000 Lvl	3	Last assessed Fall 2015
ENVR 31.192 Environmental/Resource Issues	3	ENVR 1000 Envsci Concepts	3	Last assessed Fall 2015
GERM 58.151/152 Intro German I, II	6	GRMN 1120 Begin German	6	Last assessed Fall 2011
HEB 86.101 Introductory Hebrew	6	RLGN 1120 Biblical Hebrew	6	Last assessed Fall 2011
HIST 54.153 World History To 1500	3	HIST 1XXX Transfer 1000 Lvl	3	Last assessed Fall 2011
HIST 54.154 World History Since 1500	3	HIST 1500 Mod World Hist	3	Last assessed Fall 2013
HIST 54.155 Canada To Confederation	3	HIST 1390 Col C 1500-1885	3	Last assessed Fall 2011
HIST 54.156 Canada Since Confederation	3	HIST 1400 Can Nat Si 1867	3	Last assessed Fall 2011
NAT 68.152 Intro To Native Studies II	3	NATV 1240 Nat Peop Can II	3	Last assessed Fall 2011
NAT 68.155 Intro To Cree Language I	3	NATV 1250 Intro Cree I	3	Last assessed Winter 2011
NAT 68.156 Intro To the Cree Language II	3	NATV 1260 Intro Cree II	3	Last assessed Fall 2011
NAT 68.157 Intro To Saulteaux Lang I	3	NATV 1270 Intro Ojibwa	3	Last assessed Fall 2011
NAT 68.158 Intro To Saulteaux Lang II	3	NATV 1280 Intro Ojibwa II	3	Last assessed Fall 2011
NAT 68.163 Intro To Native Language I	3	NATV 1XXX Transfer 1000 Lvl	3	Last assessed Fall 2011
NAT 68.164 Intro To Native Language II	3	NATV 1XXX Transfer 1000 Lvl	3	Last assessed Fall 2011
NAT 68.180 North Amer Native Art Hist I	3	NATV 1XXX Transfer 1000 Lvl	3	Last assessed Fall 2011
NAT 68.181 Canadian Aboriginal Art Hist	3	NATV 1XXX Transfer 1000 Lvl	3	Last assessed Fall 2011
NAT 68.454 Native Health Issues	3	NATV 3240 Nat Med & Health	3	Last assessed Fall 2011
NURS 71.153 Nutrition & Health Promotion	3	HNSC 1210 Nut Hlth Lifstl	3	Last assessed Fall 2011
PHIL 70.160 Intro To Philosophy	3	PHIL 1XXX Transfer 1000 Lvl	3	Last assessed Fall 2016
PHIL 70.162 Introduction To Logic	3	PHIL 1XXX Transfer 1000 Lvl	3	Last assessed Fall 2012
PHIL 70.163 Critical Thinking	3	PHIL 1XXX Transfer 1000 Lvl	3	Last assessed Fall 2015
POL 78.130 Introduction To Politics	6	POLS 1500 Intro Politics	6	Last assessed Fall 2015
POL 78.172 Fund of Politics	3	POLS 1XXX Transfer 1000 Lvl	3	Last assessed Fall 2015
REL 86.150 What Is A Religion?	3	RLGN 1XXX Transfer 1000 Lvl	3	Last assessed Fall 2012
REL 86.157 Intro Religious Ecstasy	3	RLGN 1XXX Transfer 1000 Lvl	3	Last assessed Fall 2015

Computer Engineering Natural Science Elective possibilities:

Brandon University	University of Manitoba Equivalent			
Course	Credit Hrs.	Course	Credit Hrs.	Comments
GEOL 42.160 Intro To Earth Science	3	GEOL 1340 Dynamic Earth	3	Last assessed Winter 2011
BIOL 15.162 Cells, Genetics & Evolution	3	BIOL 1020 Bioprinciples	3	Last assessed Fall 2015
CHEM 18.171 Elementary Organic Chemistry	3	CHEM 1320 Intro Org Chem	3	Last assessed Winter 2011
GEOL 42.160 Intro To Earth Science	3	GEOL 1340 Dynamic Earth	3	Last assessed Winter 2011
BIOL 15.264 Medical Microbiology	3	MBIO 1220 Essential Micro	3	Last assessed Fall 2015
PHYS 74.184 Solar System Astronomy	3	PHYS 1810 Gen Astro 1	3	Last assessed Fall 2011
PHYS 74.185 The Galaxy And the Universe	3	PHYS 1820 Gen Astro 2	3	Last assessed Fall 2011
PHYS 74.275 Modern Physics	3	PHYS 2380 Quant Physics 1	3	Last assessed Fall 2014

Biosystems Free Elective possibilities:

(Any course of interest that has a UM equivalency can be counted as a Free Elective. The list below are courses that can be counted as free elective and a specialization in Biosystems Engineering)

Brandon University		University of Manitoba Equivalent		
Course	Credit Hrs.	Course	Credit Hrs.	Comments
BOT 14.160 Nat Resource/Primary Agric	3	AGRI 1500 Natres Ag Prod	3	Last assessed Winter 2016
CHEM 18.261 Organic Chemistry I	3	CHEM 2210 Intro Organic I	3	Last assessed Winter 2011
CHEM 18.363 Biochemistry I	3	CHEM 2360 Biochem I	3	Last assessed Fall 2013
CHEM 18.373 Biochemistry II	3	CHEM 2370 Biochem II	3	Last assessed Fall 2013
CHEM 18.451 Environmental Chemistry	3	ENVR 2550 Env Chemistry	3	Last assessed Winter 2012