

Engineering major

Brandon University courses by year

		Aerospace	Biomedical	Bioproducts	Bioprocessing + Food	Environmental & Ecological	Chemical	Civil	Computer	Electrical	Geological	Materials Science	Mechanical
First year	62:181 Calculus I	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	62:191 Calculus II	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	74:161 Foundations of Physics I	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	74:162 Foundations of Physics II	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	18:160 General Chemistry I	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓
	18:170 General Chemistry II		✓	✓	✓	✓	✓	✓			✓	✓	
	62:160 Computer Science I	✓	✓						✓				
	62:161 Computer Science II								✓				
	15:162 Cells, Genetics & Evolution		✓	✓	✓	✓							
	15:163 Biodiversity, Functions & Inter.		✓	✓	✓	✓							
	42:160 Introduction to Earth Science										✓		
	Second year	62:290 Calculus III	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
62:291 Calculus IV		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
18:261 Organic Chemistry I			✓	✓	✓		✓	✓				✓	
18:271 Organic Chemistry II				✓	✓		✓						
74:272 Electricity and Magnetism		✓							✓	✓			✓
62/74:264 Digital Computer Fund.		✓							✓	✓			✓
62:287 C/C++ programming										✓			✓
18:260 Physical Chemistry I			✓				✓						
18:270 Physical Chemistry II							✓						
18:262 Intro. Analytical Chemistry							✓						
62:206 Discrete Struct. + Programm.									✓				
42:281 Elementary Mineralogy											✓		
42:282 Petrology											✓		
74:363 Electronics		✓							✓	✓			✓
74:382 Analytical Mechanics		✓						✓			✓		✓
62:383 Mathematical Statistics			✓		✓	✓		✓			✓		
74:383 Electromagn. fields & waves										✓			
Third year		15:370 Molecular Cell Biology		✓	✓	✓	✓						
	15:363 Animal Physiology I		✓										
	15:364 Animal Physiology II		✓										
	18:362 Instrumental Methods I						✓						
	62:306 Systems Programming								✓				
	62:473 Analysis of Algorithms								✓				

The three italicized columns show particular emphases within the the Bioproducts and Biosystems Engineering major. Grey indicates only required in Environmental emphasis.