

Appendix 1

Year 1 Elective List

Code	Name	uoc	hpw	Sess	Required for these programs	Recommended for these programs
BIOM1010	Engineering in Medicine and Biology	6	4	2		
BIOS1301	Ecology, Sustainability and Environmental Science	6	5			
BABS1201	Molecules, Cells and Genes	6	5	1		3040, 3100
CEIC1000	Sustainable Product Engineering and Design	6	4	2		3040,* 3100
CEIC1001	Engineering Chemistry	6	6	2		3040,3100*
CHEM1011	Fundamentals of Chemistry 1A	6	6	1, 2	3625 3625	3100*
CHEM1031	Higher Chemistry 1C		6	1		3040*, 3100*
CHEM1021	Fundamentals of Chemistry 1B	6	6	2, s		3040*, 3100*
CHEM1041	Higher Chemistry 1D		6	2		3040*, 3100*
COMP1921	Data Structures and Algorithms	6	5.5	1, 2	3645	3640, 3643, 3644
CVEN1300 or MINE1300 or MMAN1300	Engineering Mechanics	6	5	2	3620	
	Engineering Mechanics		4	1, 2	3140	
	Engineering Mechanics		5	1, 2	3710	
CVEN1701	Environmental Principles and Systems	6	5	2		3625
ELEC1111	Electrical and Telecommunications Engineering	6	6	2		3645, 3643, 3640, 3642, 3644, 3657
GEOS1111	Fundamentals of Geology	6	4	1		3140 3045
GEOS3321	Fundamentals of Petroleum Geology		4	1		
GMAT1400	Land Studies	6	5	2		3741
GMAT1110	Surveying and GIS 1	6	5	2	3741	3620
MATH1081	Discrete Mathematics	6	6	1, 2		
MATS1101	Engineering Materials and Chemistry	6	5	1, 2	3040, 3100, 3045*	3620, 3710, 3140
MINE1010	Mineral Resources Engineering	6	4	1		3140
MATS1192	Design and Applications of Materials in Design and Engineering	6	4	2	313,531,363,138	
MMAN1130	Design for Manufacture	6	7	1, 2		3710
PHY51231	Higher Physics 1B	6	6	2, s	3640, 3643, 3644	3642, 3645, 3657
PSYC1001	Psychology 1A	6	6	1		
PTRL1010	Introduction to the Petroleum Industry	6	4	1		3045
SOLA1070	Sustainable Energy	6	3	2	3642, 3657	

*Note that students in 3040 and 3100 can also take CHEM1011/1021 or CHEM1031/1041 in place of the recommended combination of MATS 1101/CEIC1001.

*Note that students in 3045 can also take CHEM1011 or CHEM1031 in place of the recommended MATS1101.

#Not all Year 1 elective courses must be taken in the first year.

Some courses may have pre-requisites, co-requisites or exclusions, please check carefully.