

Concentration in Physics (107 credits)	Concentration in Physics (96 credits) Program abolished
Requirements 2003-2005	New course codes 2006
Compulsory first-year credits 33 Suggested course stream for full-time students	Compulsory first-year credits 30 Suggested course stream for full-time students
Fall:	Fall:
MAT1320 Calculus I 3	MAT1320 Calculus I 3
PHY1104 Fundamentals of Physics I 3	PHY1121 Fundamentals of Physics I 3
PHY1201 Physics Laboratory 3	
Four credits from:	Three credits from:
ITI120 Introduction to Computer Science I 4	ITI1120 Introduction to Computer Science I 3
CSI1303 Introduction to Computing Concepts 4	CSI1308 Introduction to Computing Concepts 3
GNG1104 Fundamentals of Engineering Computation 4	GNG1106 Fundamentals of Engineering Computation 3
Winter:	Winter:
MAT1322 Calculus II 3	MAT1322 Calculus II 3
PHY1102 Fundamentals of Physics II 3	PHY1122 Fundamentals of Physics II 3
Fall or Winter:	Fall or Winter:
MAT1341 Introduction to Linear Algebra 3	MAT1341 Introduction to Linear Algebra 3
Eleven credits (minimum) from the following list or from other courses approved by the Department: 11	Twelve credits (minimum) from the following list or from other courses approved by the Department: 12
Fall:	Fall:
BIO1109 Principles of Biology 3	BIO1109 Principles of Biology 3
BIO1120 Introduction to Organismal Biology 4	BIO1130 Introduction to Organismal Biology 3
CHM1310 Principles of Chemistry 4	CHM1311 Principles of Chemistry 3
CHM2116 Laboratory of Environmental Chemistry 2	
CHM2352 Descriptive Inorganic Chemistry 3	CHM2353 Descriptive Inorganic Chemistry 3
GEO1115 Introduction to Earth Materials 3	GEO1115 Introduction to Earth Materials 3
GNG1100 Engineering Mechanics 4	GNG1105 Engineering Mechanics 3
GNG1102 Fundamentals of Computer Hardware 2	
3 credits outside the Faculties of Science or Engineering 3	3 credits outside the Faculties of Science or Engineering 3
Winter:	Winter:
BIO1140 Introduction to Cell Biology 4	BIO1140 Introduction to Cell Biology 3
CHG1120 Chemical Engineering Fundamentals 4	CHG1125 Chemical Engineering Fundamentals 3
CHM1320 Organic Chemistry I 4	CHM1321 Organic Chemistry I 3
CHM2311 Introduction to Structure and Bonding 3	CHM2311 Introduction to Structure and Bonding 3
ITI1224 Introduction to Computer Science II 4	ITI1121 Introduction to Computer Science II 3
GEO1111 Introduction to Earth Systems 3	GEO1111 Introduction to Earth Systems 3
Compulsory second-year credits 33	Compulsory second-year credits 24
Fall:	Fall:
MAT2122 Calculus III 3	
MAT2141 Honours Linear Algebra I 3	MAT2141 Linear Algebra I 3
or	

MAT2341 Linear Algebra	3		
MAT2371 Introduction to probability	3	MAT2371 Introduction to probability	3
or		or	
MAT2377 Probability and Statistics for Engineers (winter)	3	MAT2377 Probability and Statistics for Engineers (winter)	3
MAT2324 Ordinary Differential Equation and Laplace Transformation	3	MAT2324 Ordinary Differential Equation and Laplace Transformation	3
or		or	
MAT2334 Ordinary Differential Equations and Numerical Methods	3	MAT2384 Ordinary Differential Equations and Numerical Methods	3
PHY2004 Practical Physics	-6	PHY2904 Practical Physics	3
PHY2310 Applied Optics	3	PHY2311 Waves and Optics	3
PHY2330 Mechanics	3	PHY2333 Mechanics	3
Winter :		Winter :	
PHY2100 Fundamentals of Applied Physics III	3	PHY2100 Fundamentals of Applied Physics III	3
or		or	
PHY2323 Electricity and Magnetism	3	PHY2323 Electricity and Magnetism	3
PHY2337 Mechanics II	3		
PHY2361 Modern Physics	3	PHY2361 Modern Physics	3
3 credits outside the Faculties of Science or Engineering	3	3 credits outside the Faculties of Science or Engineering	3
Seventeen credits in PHY at the 3000-level or 4000-level	17	Eighteen credits in PHY at the 3000-level or 4000-level	18
Twelve credits in science or engineering at the 3000 or 4000-level	12	Twelve credits in science or engineering at the 3000 or 4000-level	12
6 credits outside the Faculties of Science or Engineering	6	6 credits outside the Faculties of Science or Engineering	6