

III. MAJOR: Mathematics/Applied(Pre-Engineering -- Civil, Electrical, Mechanical, Mining)

A. Core Requirements

MAT 131	Calculus I (Satisfied in General Studies)
MAT 132	Calculus II
PHY 211	General Physics I (Satisfied in General Studies)
PHY 212	General Physics II (Satisfied in General Studies)
Total Core	

Grade Semester

5		
5		

B: Concentration/Specialization

PHY 311	Engineering Statics
PHY 320	Engineering Thermodynamics
PHY 350	Electrical Circuits
Total Concentration	

3		
3		
4		
10		

C. Supporting Courses

CHE 101	General Chemistry I
CHE 102	General Chemistry II
CHE 110	General Chemistry Lab I
CHE 120	General Chemistry Lab II
MAT 231	Calculus III
MAT 232	Calculus IV
MAT Elec	Either MAT 315, MAT 321, or MAT 333
PHY 390	Special Topics (Capstone Course)
COS 108	Principles of Computer Science I
COS 109	Principles of Computer Science II
Total Support Courses	

3		
3		
1		
1		
3		
3		
3		
3		
4		
4		
28		
43		

TOTAL MAJOR

IV. ELECTIVES

A. 300-400 Courses (Degree program must have at least 42 hours of 300-400 courses)

_____ Courses transfer from UK to reach 120 hours total which depend upon particular engineering program.

26		
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B. Free Electives

_____ Free Electives

2		
28		

TOTAL FREE ELECTIVES

TOTAL DEGREE PROGRAM

120

Note: Courses beginning with a zero (0XX-Developmental courses) do not count toward graduation)