

III. MAJOR: Mathematics/Applied(Pre-Engineering -- Biosystems Engineering)

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

BIO 111	Principles of Biology
CHE 101	General Chemistry I
CHE 102	General Chemistry II
CHE 110	General Chemistry Lab I
CHE 120	General Chemistry Lab II
COS 108	Principles of Computer Science I
MAT 231	Calculus III
MAT 232	Calculus IV
MAT Elec	Either MAT 315, MAT 321 or MAT 333
PHY 390	Special Topics (Capstone Course)
Total Support Courses	

4	
3	
3	
1	
1	
4	
3	
3	
3	
3	
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)