<table>
<thead>
<tr>
<th>Yr</th>
<th>Sem</th>
<th>Major Requirements</th>
<th>University Requirements</th>
<th>CUs</th>
</tr>
</thead>
</table>
| 1  | A   | College Specified-Mathematics 1  
MA1200 Calculus and Basic Linear Algebra I (3)  
|     |     | College Specified - Computing  
CS1102 Introduction to Computer Studies (3)  
|     |     | College Requirement-  
BCH1100 Chemistry (3)  
|     |     | Department Specified:  
SEEM2101 Introduction to Systems Engineering and Management (3)  
|     |     | Department Specified: GE2319 Industrial Engineering and Management of Modern Enterprises – or GE2336 Understanding Phenomena Around Us: An Introduction to Systems Thinking (3)  
|     |     | English 1-GE1401 University English (3)  
|     |     | English 2-GE2410 English for Engineering (3)  
|     |     | GE1501 Chinese Civilisation – History and Philosophy (3)  
|     |     | Gateway Education 1 (3)  
| B   |     | College Specified-Mathematics 2  
MA1201 Calculus and Basic Linear Algebra II (3)  
|     |     | College Requirement-  
AP1201 General Physics (3)  
|     |     | Gateway Education 2 (3)  
|     |     | Gateway Education 3 (3)  
| S   |     | Gateway Education 4 (3)  
| 2  | A   | MBE2106 Basic Engineering Materials and Processing (2)  
|     |     | MBE2107 Basics of Mechanical Engineering (2)  
|     |     | MA2172 Applied Statistics for Sciences and Engineering (3)  
|     |     | SEEM3032 Production and Operations Planning (3)  
|     |     | Gateway Education 2 (3)  
|     |     | Gateway Education 3 (3)  
| B   |     | SEEM2102 Data Analytics and Statistical Methods (3)  
|     |     | MBE2108 Introduction to Electromechanical Systems (2)  
|     |     | MA2181 Mathematical Methods for Engineering (3)  
|     |     | SEEM3102 Quality Engineering (3)  
|     |     | Gateway Education 4 (3)  
| S   |     | 0  
| 3  | A   | SEEM3027 Logistics and Materials Management (3)  
|     |     | SEEM3034 Work Design (3)  
|     |     | SEEM3040 Engineering Database and Systems (3)  
|     |     | SEEM3053 Quality Improvement Methodologies (3)  
|     |     | SEEM3060 Operations Research (3)  
|     |     | Gateway Education 3 (3)  
| B   |     | SEEM3024 Ergonomics in Workplace Design (3)  
|     |     | SEEM3020 Engineering Economic Analysis (3)  
|     |     | SEEM3103 Process Analysis and Design (3)  
|     |     | Major Elective 1 (3)  
|     |     | Major Elective 2 (3)  
| S   |     | 0  
| 4  | A   | SEEM4109 Product and Service Design and Innovation (3)  
|     |     | SEEM4068 Project (Individual) (3)  
|     |     | Major Elective 3 (3)  
|     |     | Major Elective 4 (3)  
|     |     | Major Elective 5 (3)  
|     |     | Gateway Education 4 (3)  
| B   |     | SEEM4066 Professional Engineering Practice (3)  
|     |     | SEEM4068 Project (Individual) (3)  
|     |     | Major Elective 6 (3)  
|     |     | Major Elective 7 (3)  

( ) indicates number of credit units

Total credits required = 120

Note 1: Students can alter the study path and courses can be taken in any order or in year 2-4 of study provided pre-requisite and pre-cursor requirements are satisfied.

Note 2: Students can take Major electives from Year 3 depending on their overall study plan, and some elective courses may be available for study in the evenings only.
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| 1  | A   | College Specified- Mathematics 1  
MA1200 Calculus and Basic Linear Algebra I (3)  
MA1201 Calculus and Basic Linear Algebra II (3) | Department Specified:  
SEEM201 Introduction to Systems Engineering and Management (3) | 15 |
|    | B   | College Specified- Mathematics 2  
MA1200 Calculus and Basic Linear Algebra I (3)  
MA1201 Calculus and Basic Linear Algebra II (3) | Department Specified:  
GE2319 Industrial Engineering and Management of Modern Enterprises –  
or  
GE2336 Understanding Phenomena Around Us: An Introduction to Systems Thinking (3) | 15 |
|    | S   | Gateway Education 1 (3) | Gateway Education 1 (3) | 3 |
| 2  | A   | MBE2106 Basic Engineering Materials and Processing (2)  
MBE2107 Basics of Mechanical Engineering (2)  
MA2172 Applied Statistics for Sciences and Engineering (3) | Gateway Education 2 (3) | 16 |
|    | B   | SEEM2102 Data Analytics and Statistical Methods (3)  
MBE2108 Introduction to Electromechanical Systems (2)  
MA2181 Mathematical Methods for Engineering (3) | Gateway Education 3 (3) | 14 |
|    | S   | SEEM3027 Logistics and Materials Management (3)  
SEEM3034 Work Design (3) | Gateway Education 4 (3) | 3 |
| 3  | A   | SEEM3024 Ergonomics in Workplace Design (3)  
SEEM3040 Engineering Database and Systems (3)  
SEEM3053 Quality Improvement Methodologies (3) | SEEM3060 Operations Research (3) | 15 |
|    | B   | SEEM3020 Engineering Economic Analysis (3)  
SEEM3103 Process Analysis and Design (3) | Major Elective 2 (3) | 15 |
|    | S   | SEEM4109 Product and Service Design and Innovation (3)  
SEEM4068 Project (Individual) (3) | Major Elective 4 (3) | 6 |
| 4  | A   | SEEM4066 Professional Engineering Practice (3)  
SEEM4068 Project (Individual) (3) | Major Elective 6 (3) | 13 |
|    | B   | SEEM4068 Project (Individual) (3)  
SEEM4068 Project (Individual) (3) | Major Elective 7 (3) | 13 |

( ) indicates number of credit units

Note 1: Students can alter the study path and courses can be taken in any order or in year 2-4 of study provided pre-requisite and pre-cursor requirements are satisfied.

Note 2: Students can take Major electives from Year 3 depending on their overall study plan, and some elective courses may be available for study in the evenings only.