This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

| YEAR 1 | S1 | C&ENVENG 1010 Engineering Mechanics - Statics (3 units) | ELEC ENG 1009 Electrical & Electronic Engineering IA (3 units) | MATHS 1011 Mathematics IA (3 units) | MECH ENG 1103 Introduction to Mechatronic Engineering (3 units) |
|        | S2 | CHEM ENG 1009 Materials I (3 units) | MECH ENG 1006 Design Graphics & Communication (3 units) | MATHS 1012 Mathematics IB (3 units) | MECH ENG 1007 Engineering Mechanics - Dynamics (3 units) |
| YEAR 2 | S1 | MATHS 2201 Engineering Mathematics IIA (3 units) | MECH ENG 2015 Electronics IIM (3 units) plus MECH ENG 2501 Level 2 Prac | MECH ENG 2021 Thermo-Fluids I (3 units) plus MECH ENG 2501 Level 2 Prac | MECH ENG 2100 Design Practice (3 units) plus MECH ENG 2501 Level 2 Prac |
|        | S2 | MECH ENG 2019 Dynamics & Control I (3 units) plus MECH ENG 2502 Level 2 Prac | MECH ENG 2002 Stress Analysis & Design (3 units) plus MECH ENG 2502 Level 2 Prac | MECH ENG 2101 Mechatronics IM (includes Workshop Practice) (3 units) plus MECH ENG 2502 Level 2 Prac | MATHS 2202 Engineering Mathematics IIB (3 units) |
| YEAR 3 | S1 | MECH ENG 3102 Heat Transfer & Thermodynamics (3 units) plus MECH ENG 3501 Level 3 Prac | MECH ENG 3103 Manufacturing Engineering & Quality Systems (3 units) | MECH ENG 3105 Sustainability & the Environment (3 units) | MECH ENG 3106 Mechatronics II (3 units) |
|        | S2 | MECH ENG 3027 Engineering Systems Design & Communication (3 units) | MECH ENG 3028 Dynamics & Control II (3 units) plus MECH ENG 3502 Level 3 Prac | MECH ENG 3032 Micro-Controller Programming (3 units) | ELEC ENG 4059 Power Electronics & Drive Systems (3 units) |
### YEAR 4

## S1
- **MECH ENG 4143A Honours Project Part A (3 units)**
- MECH ENG 4124 Robotics M (3 units)
- MECH ENG 4102 Advanced PID Control (3 units)
- Elective Course (3 units)

## S2
- **MECH ENG 4143B Honours Project Part B (6 units)**
- MECH ENG 4123 Advanced Digital Control (3 units)
- Elective Course (3 units)

## CHOOSE FROM THE FOLLOWING ELECTIVES

### SEMESTER 1
- MECH ENG 4105 Advanced Vibrations (3 units)
- MECH ENG 4111 CFD for Engineering Applications (3 units)
- MECH ENG 4118 Finite Element Analysis of Structures (3 units)

### SEMESTER 2
- MECH ENG 4121 Materials Selection & Failure Analysis (3 units)
- MECH ENG 4114 Corrosion: Principles & Prevention (3 units)
- MECH ENG 4115 Engineering Acoustics (3 units)
- CHEM ENG 4032 Composites & Multiphase Polymers^ (3 units)

### SUMMER SCHOOL
- MECH ENG 4001 Biomechanical Engineering

MECH ENG 4501 & MECH ENG 4502 Mech Eng Level 4 Prac may be required for Level IV elective courses - see note on course planner

^ course not available in 2015

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