

For students entering Level 2 in September 2019 and after

ELECTRICAL ENGINEERING

| LEVEL I | | | Total units: 37 | | | | | |
|---------------------------|--|-------|---------------------------|--|-------|--|--|--|
| Course | Description | Units | Course | Description | Units | | | |
| ENGINEER 1A00 | Safety Training | 0 | PHYS 1E03 | Waves, Electricity and Magnetic Fields | 3 | | | |
| CHEM 1E03 | General Chemistry for Engineering I | 3 | ENGINEER 1D04 | Engineering Computation | 4 | | | |
| PHYS 1D03 | Introductory Mechanics | 3 | MATH 1ZB3 | Engineering Mathematics II-A | 3 | | | |
| ENGINEER 1CO3 | Engineering Design and Graphics | 3 | MATH 1ZC3 | Engineering Mathematics II-B | 3 | | | |
| MATH 1ZA3 | Engineering Mathematics I | 3 | MATLS 1M03 | Structure and Properties of Materials | 3 | | | |
| ENGINEER 1PO3 | Engineering Profession and Practice | 3 | ELECTIVE | Complementary Studies Elective | 3 | | | |
| ELECTIVE | Complementary Studies Elective | 3 | | | | | | |
| TERM 1 UNITS 18 | | | TERM 2 UNITS 19 | | | | | |
| LEVEL II | | | Total units: 40 | | | | | |
| Course | Description | Units | Course | Description | Units | | | |
| ELECENG 2CI5 | Introduction to Electrical Engineering | 5 | ELECENG 2CJ4 | Circuits and Systems | 4 | | | |
| COMPENG 2SH4 | Principles of Programming | 4 | ELECENG 2EI5 | Electronics Devices and Circuits I | 5 | | | |
| COMPENG 2DI4 | Logic Design | 4 | ELECENG 2FH4 | Electromagnetics I | 4 | | | |
| MATH 2Z03 | Engineering Mathematics III | 3 | COMPENG 2DX4 | Microprocessor Systems Project | 4 | | | |
| STATS 3Y03 | Probability and Statistics for Engineering | 3 | COMPENG 2SI4 | Data Struct., Algo. and Discrete Maths | 4 | | | |
| TERM 1 UNITS 19 | | | TERM 2 UNITS 21 | | | | | |
| LEVEL III | | | Total units: 32 | | | | | |
| Course | Description | Units | Course | Description | Units | | | |
| ELECENG 3FK4 | Electromagnetics II | 4 | ELECENG 3CL4 | Introduction to Control Systems | 4 | | | |
| ELECENG 3EJ4 | Electronic Devices and Circuits II | 4 | ELECENG 3EY4 | Electrical Systems Integration Project | 4 | | | |
| ELECENG 3TQ3 | Advanced Probability and Random Processes | 3 | ELECENG 3PI4 | Energy Conversion | 4 | | | |
| ELECENG 3TP3 | Signals and Systems | 3 | ELECENG 3TR4 | Communications Systems | 4 | | | |
| ELECTIVE | Complementary Studies Elective | 3 | ENGINEER 2B03 | Engineering Economics | 3 | | | |
| ELECTIVE | Complementary Studies Elective | 3 | | | | | | |
| TERM 1 UNITS 20 | | | TERM 2 UNITS 12 | | | | | |
| LEVEL IV | | | Total units: 37 40 | | | | | |
| Course | Description | Units | Course | Description | Units | | | |
| ELECENG 4OI6 | Engineering Design | 3 | ELECENG 4OI6 | Engineering Design | 3 | | | |
| ELECTIVE | ECE Directed Technical Elective* | 4 | ENGINEER 4A03 | Sustainability and Ethics in Engineering | 3 | | | |
| ELECTIVE | ECE Directed Technical Elective* | 4 | COMPENG 3SK3 | Computer Aided Engineering | 3 | | | |
| ELECTIVE | ECE Technical Elective** | 3 4 | ELECTIVE | ECE Directed Technical Elective* | 4 | | | |
| ELECTIVE | Fac of Eng. Technical Elective | 3 4 | ELECTIVE | ECE Directed Technical Elective* | 4 | | | |
| | | | ELECTIVE | ECE Technical Elective** | 3 4 | | | |
| TERM 1 UNITS 17 19 | | | TERM 2 UNITS 20 21 | | | | | |

* From the list of courses in Undergraduate Calendar

** From the list of courses on ECE webpage

ECE Technical Elective refers to courses on the Approved List for each program found under the website heading "Resources".

ECE Directed Technical Elective refers to the courses listed for your program in the Undergraduate Calendar.

Faculty of Engineering Technical Elective refers to any 3 or 4 unit course at Level 3 or 4 from any department in the Faculty of Engineering (exceptions: ENGINEER 3N03, and any ElecEng or CompEng course).