

RECOMMENDED STUDY PLAN

2021-2022

DEGREE Bachelor of Engineering (Honours) MAJOR Electrical and Electronic Engineering (EEL)

NAME _____ MINOR Mining and Minerals (MNM) – Townsville only

To assist you with subject information, we recommend you consult with your CSE Course/Major Advisor and refer to [Subject Search](#). If you would prefer a part-time study plan, please adjust the below planner, reviewing subject prerequisites to ensure you are on track for course completion.

| | Study Period 1 - SP1 | Study Period 2 - SP2 |
|--------|---|--|
| Year 1 | Degree Core: <u>EG1000</u> Engineering 1 | Degree Core: <u>EG1010</u> Process Engineering |
| | Degree Core: <u>EG1002</u> Computing and Sensors | Degree Core: <u>EG1011</u> Statics and Dynamics PREREQ: PH1005 OR (PHYSICS AND MATHS C) |
| | Degree Core: <u>MA1000</u> Mathematical Foundations PREREQ: MA1020 OR MATHS B OR MATHS C | Degree Core: <u>EG1012</u> Electric Circuits |
| | Degree Core: <u>PH1005</u> Advanced Stream Physics 1 PREREQ: MATHS B OR MA1020 OR MA1000 OR MA1008 | Degree Core: <u>MA1003</u> Mathematical Techniques PREREQ: MA1000 OR MA1011 OR MA1009 |

| | Study Period 1 - SP1 | Study Period 2 - SP2 |
|--------|--|--|
| Year 2 | Degree Core: <u>MA2000</u> Mathematics for Scientists and Engineers PREREQ: MA1003 | Major Core: <u>CC2511</u> Embedded Systems Design PREREQ: EG1002 OR CP1300 OR CP1404 |
| | Major Core: <u>CC2510</u> Digital Logic and Computing Methods PREREQ: EG1002 OR CP1401 | Major Core: <u>EE2300</u> Electronics 1 PREREQ: EG1012 |
| | Major Core: <u>EE2201</u> Circuit Theory PREREQ: EG1012 AND MA2000 | Major Core: <u>EE3600</u> Automatic Control 1 PREREQ: EG1012 AND MA2000 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF) |
| | Major Core: <u>PH2019</u> Introduction to Electromagnetism Optics and Early Quantum PREREQ: (EG1012 OR PH1005) AND MA1003 | Minor Core: <u>EA1110</u> Evolution of the Earth |

| | Study Period 1 - SP1 | Study Period 2 - SP2 |
|--------|---|---|
| Year 3 | Major Core: <u>EE3010</u> Digital Signal Processing PREREQ: 48CP | Major Core: <u>CC3501</u> Computing Interfacing and Control PREREQ: CC2511 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF) |
| | Major Core: <u>EE3300</u> Electronics 2 PREREQ: EE2300 | Major Core: <u>EE3700</u> Communications Systems Principles PREREQ: EE2201 |
| | Major Core: <u>EE3400</u> Power Engineering 1 PREREQ: EE2201 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF) | Major Core: <u>EE4600</u> Automatic Control 2 PREREQ: EE3600 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF) |
| | Minor Core: <u>EA2510</u> Earth Resources, Exploration and Environment PREREQ: EA1110 PLUS 9CP AT LVL 1 | Minor Core: <u>CL4537</u> Minerals and Solids Processing PREREQ: 48CP |

| | | Study Period 1 - SP1 | Study Period 2 - SP2 |
|---------------|---|---|----------------------|
| Year 4 | Degree Core: <u>EG4011</u> Thesis Part 1 of 2 PREREQ: 72CP | Degree Core: <u>EG4012</u> Thesis Part 2 of 2 PREREQ: EG4011 | |
| | Degree Core: <u>EG3000</u> Introduction to Systems Engineering and Project Management PREREQ: EG1000 AND EG1002 AND EG1010 AND EG1011 AND EG1012 AND MA1000 AND MA1003 AND (PH1005 OR EG1001) OR 36CP | Major Core: <u>EE4400</u> Power Engineering 2 PREREQ: EE3400 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF) | |
| | Major Core: <u>EE4010</u> Analog Filters and Signals PREREQ: EE2201 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF) | Major Core: <u>EE4500</u> Electrical and Electronic Engineering Design PREREQ: EE3600 AND EE3300 AND EE3001 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF) | |
| | Minor Core: <u>ME4521</u> Bulk Materials Handling PREREQ: 48CP | Major Core: <u>EG4013</u> Asset Management, Maintenance and Reliability PREREQ: (EG1000 AND EG1002 AND EG1010 AND EG1011 AND EG1012 AND MA1000 AND MA1003 AND (PH1005 OR EG1001)) OR 36CP | |