

## Enrolment Course Structure

Course Code – EN8.MIN

Course Name – Bachelor of Engineering (Mining Engineering) (Honours)

| First Year        | Unit Code | Unit Name   | Unit Rules   |
|-------------------|-----------|---|--|
| <b>Semester 1</b> |           |   |  |
|                   | ENGRG1001 | Computational Skills for Engineers                  |  |
|                   | ENGRG1002 | Physics for Engineers 1                             |  |
|                   | ENGRG1003 | Engineering Design 1                                |  |
|                   | MATHS1100 | Applied Mathematics 1                               | <b>EX:</b> MATHS1001                                     |
| <b>Semester 2</b> |           |   |  |
|                   | COOPE1001 | Professional Identity (Engineering)                 |  |
|                   | ENGRG1004 | Physics for Engineers 2                             | <b>EX:</b> ENGIN1002 & ENGIN1003                         |
|                   | ENGRG1005 | Engineering Design 2                                | <b>EX:</b> ENGIN1004 & ENGIN3002                         |
|                   | MATHS2100 | Applied Mathematics 2                               | <b>EX:</b> MATHS1005 & MATHS1102                         |
| Second Year       | Unit Code | Unit Name   | Unit Rules   |
| <b>Semester 1</b> |           |   |  |
|                   | ENGRG2301 | Solid Mechanics                                     | <b>PR:</b> ENGRG1003                                     |
|                   | ENGRG2302 | Fluid Mechanics                                     | <b>PR:</b> ENGRG1002 & ENGRG1004<br><b>EX:</b> ENGIN3301 |
|                   | ENGRG2401 | Introduction to Mining Engineering and Technologies |  |
|                   |           | Minor Unit 1  |  |
| <b>Semester 2</b> |           |   |  |
|                   | ENGRG2402 | Mining Geology and Mineral Processing               |  |
|                   | ENGRG2403 | Rock Fragmentation                                  | <b>EX:</b> ENGIN2502                                     |
|                   | ENGRG2404 | Rock Mechanics Application                          | <b>EX:</b> ENGIN5507                                     |
|                   |           | Minor Unit 2  |  |

| Third Year  | Unit Code | Unit Name  | Unit Rules   |
|---|-----------|--|--|
| <b>Semester 1</b>                                 |           |  |  |
|   | COOPE2011 | Cooperative Placement 1 (Engineering)              | <b>PR:</b> COOPE1001 & At least 105 credit points from ENGRG subject-area at any level<br><b>EX:</b> BUGEN3751 & BUGEN3752 & SCCOR3003 & SCCOR3014 |
|   | ENGRG3401 | Surface and Underground Mining Systems             | <b>PR:</b> ENGRG2401<br><b>EX:</b> ENGIN3501 & ENGIN3503   |
|   |           | Minor Unit 3                                       |  |
| <b>Semester 2</b>                                 |           |  |  |
|   | COOPE2012 | Cooperative Placement 2 (Engineering)              | <b>PR:</b> COOPE1001 & At least 105 credit points from ENGRG subject-area at any level   |
|   | ENGRG3402 | Subsurface Environment and Ventilation             | <b>PR:</b> ENGRG2302   |
|   |           | Minor Unit 4                                       |  |
| Fourth Year                                       | Unit Code | Unit Name  | Unit Rules   |
| <b>Semester 1</b>                                 |           |  |  |
|   | ENGRG4001 | Engineering Design Project                         | <b>PR:</b> At least 300 credit points<br><b>EX:</b> ENGIN3002  |
|   | ENGRG4002 | Engineering Capstone Project 1                     | <b>PR:</b> At least 300 credit points<br><b>EX:</b> ENGIN4001  |
|   | SCENV3120 | Landscape Restoration and Mine Site Rehabilitation |  |
|   |           | Specialisation Elective Unit 1                     |  |
| <b>Semester 2</b>                                 |           |  |  |
|   | ENGRG4003 | Engineering Capstone Project 2                     | <b>PR:</b> ENGRG4002<br><b>EX:</b> ENGIN4002   |
|   | ENGRG4401 | Mine Planning and Scheduling                       | <b>PR:</b> ENGRG3401<br><b>EX:</b> ENGIN5505   |
|   |           | Specialisation Elective Unit 2                     |  |
| <b>Specialisation Elective Unit 1</b>             |           |  |  |
| ENGIN5501 Mine Safety and Environment Engineering |           |  |  |
| <b>Specialisation Elective Unit 2</b>             |           |  |  |
| ENGIN5508 Smart Engineering Technologies          |           |  |  |

## Additional Information

This course structure applies to students commencing from 2025. Students who commenced prior to 2025 should refer to the continuing enrolments page.

*TEQSA have advised that, in accordance with B1.1.3 of [Higher Education Standards Framework \(Threshold Standards\) 2021](#) all Higher Education Providers are required to show their TEQSA Provider number and Provider Category on all relevant public material. ITS have ensured that our website and email signature templates have been amended to ensure compliance and have provided a knowledge article to assist you to update your signatures. Marketing are working to update the brand library and all social media accounts.*

## Glossary

**Semester:** designated teaching period.

**PR:** Pre-requisite, a unit/s that must be completed prior to undertaking another unit.

**CO:** Co-requisite, a unit/s that must be completed simultaneously, or prior to, undertaking another unit.

**EX:** Exclusion, a unit/s that may not be taken.