

Enrolment Program Structure

Program Code – EG8.MIN

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

| First Year | Course Code | Course Name | Course Rules |
|-------------------|-------------|---|--|
| Semester 1 | | | |
| | ENGIN1001 | Professional Engineering | EX: ENCOR1005 |
| | ENGIN1002 | Engineering Physics | EX: ENCOR1021 and ENCOR2100 |
| | ENGIN1003 | Materials in Engineering | EX: ENCOR1110 |
| | MATHS1001 | Modelling and Change (Introductory Level) | |
| Semester 2 | | | |
| | ENGIN1004 | Engineering Design and Drafting | EX: ENCOR1010 |
| | ENGIN1005 | Engineering Mechanics | EX: ENCOR1110 and ENCOR1021 |
| | ENGIN1006 | Engineering Computer Modelling | EX: ENCOR1021 |
| | MATHS1005 | Secrets of the Matrix | |
| Second Year | Course Code | Course Name | Course Rules |
| Semester 1 | | | |
| | ENGIN2001 | Professional Practice | PR: ENGIN1001 or ENCOR1005 EX: ENCOR3035 |
| | ENGIN2301 | Mechanics of Solids | PR: ENGIN1005 or ENCOR1000 or ENCOR1021 EX: ENCOR2030 |
| | ENGIN2501 | Mine Power and Services Technology | EX: ETMIN2260 |
| | ENGIN2502 | Rock Fragmentation | EX: ENMIN2040 |
| | | MATHS2001 OR MATHS2016 | |
| Semester 2 | | | |
| | ENGIN2304 | Thermofluids | PR: ENCOR1000 or ENCOR1021 or ENGIN1005 EX: ENCOR2100 |
| | ENGIN2503 | Rock Mechanics Applications | PR: ENCOR2030 or ENGIN2301 EX: ENMIN3040 |
| | MATHS3001 | Modelling and Change (Advanced Level) | PR: MATHS2001 EX: MATHS2006 |
| | SCGEO1103 | Planet Earth | |

| Third Year | Course Code | Course Name | Course Rules |
|-------------------|-------------|--|---|
| Semester 1 | | | |
| | ENGIN3204 | Engineering Surveying | EX: ENCIV2010 |
| | ENGIN3501 | Underground Production Systems | PR: ENGIN2502 or ENMIN2040 EX: ENMIN3020 |
| | ENGIN3502 | Subsurface Environmental Engineering | PR: ENCOR2100 or ENGIN2304 EX: ENMIN3050 |
| | SCENV3120 | Landscape Restoration and Mine Site Rehabilitation | |
| Semester 2 | | | |
| | ENGIN3001 | Engineering Research Methodology and Management | PR: ENCOR1005 or ENGIN1001 |
| | ENGIN3503 | Surface Mining Operations and Equipment | PR: ENGIN2502 or ENMIN2040 EX: ENMIN3070 |
| | ENGIN5503 | Advanced Mine Ventilation | EX: ENMIN4050 |
| | SCGEO2105 | Economic Geology | PR: SCGEO1102 or SCGEO1103 |
| Fourth Year | Course Code | Course Name | Course Rules |
| Semester 1 | | | |
| | ENGIN4001 | Engineering Project 1 | PR: ENGIN3001 EX: ENCOR4100 |
| | ENGIN5505 | Mine Planning & Scheduling | EX: ENMIN4090 and ENMIN7010 |
| | SCMET3100 | Mineral Processing I | PR: SCCHM1003 or SCMET1002 |
| Semester 2 | | | |
| | ENGIN4002 | Engineering Project 2 | PR: ENCOR4100 or ENGIN4001 EX: ENCOR4200 |
| | ENGIN5508 | Smart Engineering Technologies | PR: ENGIN3001 |
| | SCMET3200 | Mineral Processing II | PR: SCMET3100 |

Additional Information

This program structure applies to all students.

Glossary

Semester: designated teaching period.

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

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

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