

| | |
|--------------------------------------|---|
| No Major | 2 |
| Mine Automation Major | 4 |
| Mining Engineering Minors..... | 5 |
| Humanitarian Engineering Minor | 6 |
| Entrepreneurship Minor | 6 |

No Major

| Year 1 | | | | |
|--|--|--|---|---|
| S 1 | MATHS 1011 Mathematics IA <input type="checkbox"/> | ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/> | CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/> | General Elective <i>Suggested elective: CEME 1001</i> <i>Introduction to Environmental Engineering</i> <input type="checkbox"/> |
| S 2 | MATHS 1012 Mathematics IB <input type="checkbox"/> | ^ ENG 1001 Introduction to Engineering <input type="checkbox"/> | MINING 1011 Introduction to Mining Engineering <input type="checkbox"/> | Level 1 Engineering Elective (see elective table) <input type="checkbox"/> |
| Year 2 | | | | |
| S 1 | MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/> | CEME 2001 Strength of Materials <input type="checkbox"/> | MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/> | General Elective <i>Suggested elective: CHEM ENG 2010</i> <i>Process Design II</i> <input type="checkbox"/> |
| S 2 | MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/> | GEOLOGY 2504 Mineral Resources II <input type="checkbox"/> | General Elective <i>Suggested elective: CEME 2005</i> <i>Transportation Engineering & Survey</i> <input type="checkbox"/> | General Elective <i>Suggested elective: MECH 2101</i> <i>Mechatronics IM</i> <input type="checkbox"/> |
| Year 3 | | | | |
| S 1 | ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/> | MINING 3078 Resource Estimation and Mine Planning <input type="checkbox"/> <i>In lieu of MINING 3070 Resource Estimation</i> | MINING 3076 Geomechanics and Excavation Engineering <input type="checkbox"/> <i>In lieu of MINING 3072 Mining Geomechanics</i> | MINING 3071 Mining Systems <input type="checkbox"/> |
| S 2 | ENG 3005 Research Method & Project Management <input type="checkbox"/> | MINING 3077 Mine Safety Engineering <input type="checkbox"/> <i>In lieu of MINING 3073 Mine Planning</i> | Mining Engineering Elective (see elective table) <input type="checkbox"/> | Mining Engineering Elective (see elective table) <input type="checkbox"/> |
| Internship | | | | |
| All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see the note section below. | | | | |
| Year 4 | | | | |
| S 1 | ENG 4001A Research Project Part A <input type="checkbox"/> | MINING 4116 Mine Design and Feasibility Study <input type="checkbox"/> <i>In lieu of MINING 4106 Hard Rock Mine Design & Feasibility</i> | MINING 4117 Mining and Environment <input type="checkbox"/> <i>In lieu of MINING 4104 Socio-Environmental Aspects of Mining</i> | Mining Engineering Elective (see elective table) <input type="checkbox"/> |
| S 2 | ENG 4001B Research Project Part B <input type="checkbox"/> | Mining Engineering Elective (see elective table) <input type="checkbox"/> | Mining Engineering Elective (see elective table) <input type="checkbox"/> | Mining Engineering Elective (see elective table) <input type="checkbox"/> |

| | |
|--------------|----------|
| Core Courses | Elective |
|--------------|----------|

^ Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.

CHOOSE FROM THE FOLLOWING LEVEL 1 ELECTIVES

| | | | | | |
|-----------|----------------------------|---|-----------|----------------------------|---|
| S1 | CEME 1001 ELEC ENG 1101 | Introduction to Environmental Engineering Electronic Systems | S2 | CEME 1002 MECH ENG 1007 | Introduction to Infrastructure Engineering Mechanics- Dynamics |
|-----------|----------------------------|---|-----------|----------------------------|---|

CHOOSE FROM THE FOLLOWING MINING ENGINEERING ELECTIVES

| | | | | | |
|-----------|---|---|-----------|---|--|
| S1 | CEME 4007 CEME 4008 GEOG 2129 GEOLOGY 2501 GEOLOGY 3500 | Unsaturated Soils Soil and Ground Water Remediation Introductory Geographic Information Systems (GIS) Structural Geology II Exploration Methods III | S2 | CEME 3006 CHEM ENG 2019 GEOLOGY 3502 MINING 4115 | Geotechnical Engineering Introduction to Minerals Processing Mineral and Energy Resources III Mine Automation |
|-----------|---|---|-----------|---|--|

NOTES

Internship: All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies. Internships are self-sourced and further information can be found on the Engineering Internships web page: <https://ecms.adelaide.edu.au/study-with-us/student-support/internships/engineering>.

Program Rules: For academic program rules please refer to the following website: <https://calendar.adelaide.edu.au/faculty/ecms>

Information and Enrolment Advice:

Ask ECMS

Email: askecms@adelaide.edu.au

Website: <https://ecms.adelaide.edu.au/study-with-us/student-support>

Mine Automation Major

| Year 1 | | | | |
|--|--|--|---|--|
| S 1 | MATHS 1011 Mathematics IA <input type="checkbox"/> | ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/> | CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/> | ELEC ENG 1101 Electronic Systems <input type="checkbox"/> |
| S 2 | MATHS 1012 Mathematics IB <input type="checkbox"/> | ^ ENG 1001 Introduction to Engineering <input type="checkbox"/> | MINING 1011 Introduction to Mining Engineering <input type="checkbox"/> | MECH ENG 1007 Engineering Mechanics - Dynamics <input type="checkbox"/> |
| Year 2 | | | | |
| S 1 | MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/> | CEME 2001 Strength of Materials <input type="checkbox"/> | MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/> | MINING 3071 Mining Systems <input type="checkbox"/> |
| S 2 | MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/> | GEOLOGY 2504 Mineral Resources II <input type="checkbox"/> | MECH ENG 2101 Mechatronics IM <input type="checkbox"/> | ELEC ENG 2104 Digital Signal Processing <input type="checkbox"/> |
| Year 3 | | | | |
| S 1 | ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/> | MINING 3078 Resource Estimation and Mine Planning <input type="checkbox"/> <i>In lieu of MINING 3070 Resource Estimation</i> | MINING 3076 Geomechanics and Excavation Engineering <input type="checkbox"/> <i>In lieu of MINING 3072 Mining Geomechanics</i> | MECH ENG 3106 Mechatronics II <input type="checkbox"/> |
| S 2 | ENG 3005 Research Method & Project Management <input type="checkbox"/> | MINING 3077 Mine Safety Engineering <input type="checkbox"/> <i>In lieu of MINING 3073 Mine Planning</i> | Mining Engineering Elective (see elective table) <input type="checkbox"/> | Mining Engineering Elective (see elective table) <input type="checkbox"/> |
| Internship | | | | |
| All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see the note section below. | | | | |
| Year 4 | | | | |
| S 1 | ENG 4001A Research Project Part A <input type="checkbox"/> | MINING 4116 Mine Design and Feasibility Study <input type="checkbox"/> <i>In lieu of MINING 4106 Hard Rock Mine Design & Feasibility</i> | MINING 4117 Mining and Environment <input type="checkbox"/> <i>In lieu of MINING 4104 Socio-Environmental Aspects of Mining</i> | Mining Engineering Elective (see elective table) <input type="checkbox"/> |
| S 2 | ENG 4001B Research Project Part B <input type="checkbox"/> | MINING 4115 Automation in Mining <input type="checkbox"/> | Mining Engineering Elective (see elective table) <input type="checkbox"/> | Mining Engineering Elective (see elective table) <input type="checkbox"/> |
| Core Courses | | Major Courses | Elective | |

^ Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.

CHOOSE FROM THE FOLLOWING MINING ENGINEERING ELECTIVES

| | | | | | |
|-----------|--------------|---|-----------|---------------|-------------------------------------|
| S1 | CEME 4007 | Unsaturated Soils | S2 | CEME 3006 | Geotechnical Engineering |
| | CEME 4008 | Soil and Ground Water Remediation | | CHEM ENG 2019 | Introduction to Minerals Processing |
| | GEOG 2129 | Introductory Geographic Information Systems (GIS) | | GEOLOGY 3502 | Mineral and Energy Resources III |
| | GEOLOGY 2501 | Structural Geology II | | | |
| | GEOLOGY 3500 | Exploration Methods III | | | |

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Ask ECMS

Email: askecms@adelaide.edu.au

Website: <https://ecms.adelaide.edu.au/study-with-us/student-support>

Mining Engineering Minors

Minors are undertaken by taking 12 units of courses within one of the following streams to replace the electives offered within a major. If they are not listed on the previous pages, the courses below cannot contribute as Civil Engineering electives unless the full 12-unit Minor is awarded.

Humanitarian Engineering Minor

One course of each labelled **A, B, C, D** must be taken.

| Summer | | | Winter | | |
|------------|----------------|--------------------------------------|------------|----------------|---|
| A | SPATIAL 3007WT | GIS for Environmental Management III | A | SPATIAL 3020WT | GIS for Agriculture & Natural Resource III |
| | | | B | PROJMGMT 3030 | Project Logistics and Supply Chains |
| Semester 1 | | | Semester 2 | | |
| C | DEVT 2100 | Poverty and Social Development | C | DEVT 2101 | Empowerment & Development: Community & Gender |
| | | | D | ENG 3201 | Essentials of Humanitarian Practice (TBC) |

Entrepreneurship Minor

One course of each labelled **A, B, C, D** must be taken.

| | | | Summer | | |
|------------|-------------|----------------------------|------------|-------------|---------------------------|
| | | | A | ENTREP 3000 | Innovation and Creativity |
| Semester 1 | | | Semester 2 | | |
| B | ENTREP 3901 | Tech eChallenge | A | ENTREP 3000 | Innovation and Creativity |
| C | ENTREP 3015 | Entrepreneurial Leadership | B | ENTREP 3900 | eChallenge |
| | | | D | ENTREP 3011 | Startup Methodologies |