



Sample Study Outline

Mining Engineering (MIN)

Program / Degree: [3707 Bachelor of Engineering \(Honours\) Mining Engineering](#)

Year	Term 1	UOC	Term 2	UOC	Term 3	UOC
1 st	DESN1000 Engineering Design and Innovation	6	MATH1231/1241 Mathematics 1B/Higher Mathematics 1 B (MATH1131/1141)	6	ENGG1300 Engineering Mechanics (MATH1131/1231 & PHS1121/1131)	6
	MATH1131/1141 Mathematics 1A/Higher Mathematics 1 A	6	PHYS1121/1131 Physics 1A/Higher Physics 1A	6	GEOS1111 Investigating Earth and Its Evolution Recommended	6
	MINE1010 Mineral Recourses Engineering (Free Elective)	6	ENGG1811 Computing for Engineers		MATH2019 Engineering Mathematics 2E (MATH1231/1241)	6
	Total UOC	18	Total UOC	18	Total UOC	18
2 nd	CEIC2001 Fluid and Particle Mechanics	6	DESN2000 Design Project (DESN1000)	6	Mine Professional Elective/General Education	6
	ENGG2400 Mechanics of Solids (ENGG1300)	6	MERE2810 Mineral Resource Geology & Geophysics (GEOS1111)	6	ENGG4909 Co-op Industry Training 1	12
	MATH2089 Numerical Methods and Statistics (MATH1231/1241)	6	MINE2820 Minerals and Processing (GEOS1111)	6		
	Total UOC (nominal)	18	Total UOC	18	Total UOC (nominal)	6+12
3 rd	MINE3220 Resource Estimation (MERE2810)	6	MINE3230 Mine Planning (MINE3220 & MINE3430)	6	MINE Professional Elective/General Education	6
	MINE3310 Mining Geomechanics (ENGG2400)	6	MINE3910 Socio-Environmental Aspects of Mining (MINE3430)	6	ENGG4902 Co-op Industry Training 2	12
	MINE3430 Mining Systems (MERE2810)	6	MINE Professional Elective/General Education			
	Total UOC	18	Total UOC	18	Total UOC (nominal)	6+12
4 th	MERE4951 Thesis A	4	MERE4952 Thesis B	4	MERE4953 Thesis C	4
	MINE4250 Hardrock Mine Design & Feasibility (MINE3230)	6	MINE4710 Mine Management (MINE3430)	6	MINE3630 Rock Breakage (MINE3430)	6
	MINE4310 Mine Geotechnical Engineering (MINE3310)	6	MINE Professional Elective/General Education	6	MINE3510 Mine Ventilation (CEIC2001)	6
	Total UOC	16	Total UOC	22	Total UOC	22

Notes:

UNSW calendar will move from 3-trimester model to 2-semester model in 2028 so the sample study outline from 3rd to 4th year will be subject to significant change later.

- Program must include 12 UoC of General Education and 12 UoC of MINE Professional Electives.
- Course pre-requisites are in brackets.
- All courses are 6 UoC unless indicated otherwise.
- MINE Professional Elective – Students can be granted special permission to enrol in a PG level block course or distance course.

Resources:

- [UNSW Handbook](#)
- [School](#)
- [Co-op program](#)

Co-op Academic Coordinator

Dr Jing (Camille) Zhao

For enrolment related questions please always contact your Co-op Academic Coordinator in the first instance:

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When would I be on Industry Training (IT)?

UNSW calendar will move from 3-trimester model to 2-semester model in 2028 so the sample study outline from 3rd to 5th year will be subject to significant change later.

