

ENGINEERING UNIT LIST
Semester 1, 2026

Unit Code	Unit Name	Unit Rules	MTH	CHLL	BER	ODL	FLXB	FLXG	FLXK	MELC	SYDA
COOPE9011	Co-operative Placement (Engineering)	PR: At least 60 credit points prior to enrolment AND must be undertaking EY9	✓			✓					
DATSC5001	Advanced Data Science Project	PR: ITECH5500	✓			✓				✓	
DATSC5002	Advanced Data Science Project 2	PR: ITECH5500	✓			✓					
ENGIN3101	Power Electronics	PR: ENGIN1007 for undergraduate students only	✓	✓							
ENGIN3102	Power System Analysis	PR: ENGIN2104 or ENGIN2404 for undergraduate students only	✓	✓		✓					
ENGIN3201	Structural Design	EX: ENGIN2203	✓	✓							
ENGIN3304	Thermodynamics	PR: ENGIN2304 for undergraduate students only	✓								
ENGIN3404	Systems Dynamics and Control	PR: MATHS3001 for undergraduate students only EX: ENMEC3500 & ENMTX3040	✓	✓							
ENGIN3503	Surface Mining Operations and Equipment	PR: ENGIN2502 for undergraduate students only EX: ENMIN3070 or ENMIN5018	✓			✓					
ENGIN4001	Engineering Project 1	EX: ENCOR4100	✓	✓		✓					
ENGIN4002	Engineering Project 2	PR: ENCOR4100 or ENGIN4001 EX: ENCOR4200	✓	✓		✓					
ENGIN4101	Electrical Power Distribution Engineering	PR: ENGIN3102	✓	✓							
ENGIN4201	Management of Water Resources	PR: ENGIN3203 for undergraduate students only EX: ENGGC4203	✓	✓							
ENGIN5002	Advanced Engineering Project 1	PR: ENGIN3001 EX: ENCOR7020	✓	✓		✓				✓	✓
ENGIN5102	Micro-Grid and Energy Storage Systems	PR: ENGIN3102	✓	✓							
ENGIN5302	Modelling and Simulation	PR: ENGIN2301 for undergraduate students only EX: ENCOR4050	✓								
ENGIN5501	Mine Safety and Environmental Engineering	EX: ENMIN5020	✓			✓					
ENGIN5505	Mine Planning and Scheduling	EX: ENMIN4090 or ENMIN7010	✓			✓					

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ENGIN5507	Ore Reserve Estimation	EX: ENMIN5017	✓			✓					
ENGGPG9102	Modelling and Simulation in Engineering	EX: ENGRG9101	✓								
ENGGPG9106	Structural Engineering 2	PR: ENGGPG9103 or ENGIN2203 EX: ENGRG3101 or ENGIN3201	✓	✓							
ENGGPG9107	Water Resource Management	EX: ENGRG9103	✓	✓							
ENGGPG9201	Power Electronics	EX: ENGRG2202	✓	✓							
ENGGPG9202	Power System Analysis	EX: ENGRG3201	✓	✓							
ENGGPG9207	Electrical Power Distribution Engineering	PR: ENGGPG9202 EX: ENGRG9204	✓	✓							
ENGGPG9209	Microgrids and Energy Storage System	PR: ENGGPG9204 EX: ENGRG9206	✓	✓							
ENGGPG9301	Solid Mechanics	EX: ENGRG2301	✓	✓		✓					
ENGGPG9304	Thermodynamics	EX: ENGRG2304	✓								
ENGGPG9309	Control System Engineering	EX: ENGIN3404 or ENGRG4201 or ENGRG9206	✓								
ENGGPG9405	Mine Planning and Scheduling	EX: ENGRG4401	✓			✓					
ENGGPG9408	Ore Reserve Estimation	EX: ENGRG9402	✓			✓					
ENGGPG9409	Mine Safety and Environmental Engineering	EX: ENGRG9403	✓			✓					
ENGGPG9410	Surface Mining Operations and Equipment	EX: ENMIN3070 or ENMIN5018	✓			✓					
ENGRG1001	Computational Skills for Engineers	EX: ENGIN1004	✓			✓			✓		
ENGRG1002	Physics for Engineers 1	EX: ENGIN1002	✓			✓					
ENGRG1003	Engineering Design 1	EX: ENGIN1005	✓			✓					
ENGRG2106	Hydrology and Hydraulics	PR: ENGRG1002 EX: ENGIN2201	✓	✓		✓					
ENGRG2107	Construction Engineering	PR: ENGRG1004 EX: ENGIN2022 and ENGRG2101	✓	✓		✓					
ENGRG2201	Digital Logic and Electronic Systems	EX: ENGIN2105	✓	✓		✓					
ENGRG2204	Renewable Energy Principles	PR: ENGRG1004 EX: ENGIN2103	✓	✓		✓					
ENGRG2301	Solid Mechanics	PR: ENGRG1003 or must be undertaking EZ9	✓	✓		✓					

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		EX: ENGIN2301									
ENGRG9003	Advanced Engineering Design Project	PR: At least 90 Credit Points prior to enrolment	✓			✓					
ENGRG9004	Advanced Engineering Research Project 1	PR: At least 90 Credit Points prior to enrolment EX: ENGIN5002	✓			✓					
ENGRG9005	Advanced Engineering Research Project 2	PR: ENGRG9004 EX: ENGIN5003	✓			✓					
MATHS1100	Applied Mathematics 1	EX: MATHS1001	✓		✓	✓			✓		
MATHS2003	Profit, Loss and Gambling (Intermediate level)	PR: At least one introductory level maths unit or equivalent OR STATS1000 OR EDMTH1000 OR SCCOR1300 EX: MATHS1003 and MA553 and MA653			✓	✓					
MATHS5000	Mathematics for Data Science		✓			✓				✓	
MREGC5001	Terotechnology & Life Cycle Costs	EX: ENMTX4050				✓					
MREGC5008	Maintenance & Reliability Engineering Project	PR: At least 45 credit points from program GEM4 or GMR9				✓					
MREGC5101	Basic Quantitative Skills for Reliability Engineering	EX: MREGC5005				✓					
STATS1000	Statistical Methods		✓	✓	✓	✓	✓	✓	✓		
STATS2101	Statistics For Prediction	PR: STATS1000	✓			✓					
STATS5000	Statistics and Reliability		✓			✓				✓	

PR - Pre-Requisite ● EX - Exclusion ● CO - Co-requisite

MTH = Mt Helen ● CHLL = Churchill ● BER = Berwick ● ODL = Online Learning ● FLXB Flexible Ballarat ● FLXG Flexible Gippsland ● FLXK Flexible Berwick ●
MELC = Melbourne ● SYDA = Sydney

**This is a live document and therefore subject to change*