

ENGINEERING UNIT LIST Semester 2, 2026

Unit Code	Unit Name	Unit Rules	MTH	CHLL	BER	ODL	FLXB	FLXG	FLXK	MELC	SYDA
COOPC2005	Co-Operative Placement (Engineering)	PR: At least 105 credit points prior to enrolment EX: BUGEN3751 or BUGEN3752 or SCCOR3003 or SCCOR3014	✓		✓	✓					
COOPC2025	Experiential Learning (Engineering)	PR: At least 240 Credit Points prior to enrolment	✓	✓	✓	✓					
COOPE1001	Professional Identity (Engineering)	PR: Must be undertaking EN8 or EN8.MIN or EN8.MEC or EN8.EIE or EN8.CIV	✓	✓	✓	✓					
DATSC5001	Advanced Data Science Project	PR: ITECH5500	✓			✓				✓	
DATSC5002	Advanced Data Science Project 2	PR: ITECH5500	✓			✓				✓	
DATSC7003	Experiment Design and Visualisation	PR: ITECH7001	✓			✓					
ENGIN2203	Structural Analysis	PR: ENCOR2030 or ENGIN2301	✓	✓							
ENGIN2204	Introduction to Geotechnical Engineering	PR: ENGIN2301	✓	✓		✓					
ENGIN2404	Electrical and Electronic Drives and Actuators	PR: ENCOR1000 or ENCOR1021 or ENGIN1002 EX: ENMTX2040	✓	✓							
ENGIN2503	Rock Mechanics Applications	EX: ENMIN3040 or ENMIN5160	✓			✓					
ENGIN3002	Engineering Design Project	PR: ENGIN2002 or ENMEC2121 or ENMTX2050 EX: ENMEC2120 or ENMEC2121 or ENMEC3250 or ENMTX3800	✓	✓		✓					
ENGIN3103	Power System Protection	PR: ENGIN2104	✓	✓	✓						
ENGIN3104	Digital Communication Principles	PR: ENGIN2102	✓	✓	✓						
ENGIN3201	Structural Design	EX: ENGIN2203	✓	✓							
ENGIN3202	Geotechnical Engineering	PR: ENGIN2104 or ENGIN2404 for undergraduate students only	✓	✓							
ENGIN3203	Traffic and Transport	EX: ENCIV3340	✓	✓							
ENGIN3205	Road Engineering	PR: ENGIN3203 for undergraduate students only EX: ENCIV3350	✓	✓							
ENGIN3206	Water and Wastewater	PR: ENGIN2201	✓	✓							
ENGIN3304	Thermodynamics	PR: ENGIN2304 for undergraduate students only	✓								
ENGIN3305	Manufacturing Engineering	PR: ENGIN2002 or ENMEC2121 or ENMTX2050 EX: ENMEC3110	✓								
ENGIN3405	Digital Imaging and Artificial Intelligence	PR: MATHS3001 or MATHS3040 EX: ENMTX3030	✓	✓	✓						

ENGINEERING UNIT LIST Semester 2, 2026

Unit Code	Unit Name	Unit Rules	MTH	CHLL	BER	ODL	FLXB	FLXG	FLXK	MELC	SYDA
ENGIN3501	Underground Production Systems	PR: ENGIN2502 for undergraduate students only EX: ENMIN3020	✓			✓					
ENGIN3502	Subsurface Environmental Engineering	PR: ENGIN2304 for undergraduate students only EX: ENMIN3050 & ENMIN5023	✓			✓					
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	✓	✓		✓					
ENGIN4102	Power Electronic Application to Renewable Energy Systems	PR: ENGIN3101	✓	✓							
ENGIN4203	Engineering Construction	PR: ENGIN2002 or ENGIN2202	✓	✓							
ENGIN4302	Energy Conversion	PR: ENGIN3304 or ENMEC3071 EX: ENMEC4090	✓								
ENGIN4402	Digital and Embedded Systems	PR: ENGIN2401 or ENMTX2010 AND ENGIN3401 or ENMTX3010 EX: ENMTX3070	✓	✓		✓					
ENGIN5002	Advanced Engineering Project 1	PR: ENGIN3001 EX: ENCOR70200	✓	✓		✓					
ENGIN5003	Advanced Engineering Project 2	PR: ENGIN5002 EX: ENCOR7030	✓	✓		✓					
ENGIN5103	Electrical Demand Forecast and Management	PR: ENGIN3102	✓								
ENGIN5202	Advanced Structural Analysis I	PR: ENGIN3201	✓	✓							
ENGIN5208	Sustainable Engineering Practice		✓							✓	✓
ENGIN5209	Engineering Project Resource Planning		✓								
ENGIN5210	Engineering Project Execution		✓								
ENGIN5405	Advanced Control Systems Engineering	EX: ENMTX4020	✓	✓							
ENGIN5501	Mine Safety and Environmental Engineering	EX: ENMIN5020	✓			✓					
ENGIN5503	Advanced Mine Ventilation	EX: ENMIN4050	✓			✓					

ENGINEERING UNIT LIST Semester 2, 2026

Unit Code	Unit Name	Unit Rules	MTH	CHLL	BER	ODL	FLXB	FLXG	FLXK	MELC	SYDA
ENGIN5505	Mine Planning and Scheduling	EX: ENMIN4090 & ENMIN7010	✓								
ENGIN5508	Smart Engineering Technologies	EX: ENGIN3001	✓			✓					
ENGIN5510	Company Economics and Finance	EX: ENMIN5150				✓					
ENGIN5515	Tunnelling and Mine Development	EX: ENMIN5120				✓					
ENGP9101	Geomatics Engineering	EX: ENGRG4101	✓								
ENGP9103	Structural Engineering 1	EX: ENGRG2104	✓	✓							
ENGP9105	Construction Engineering 2	EX: ENGRG4102	✓								
ENGP9106	Structural Engineering 2	PR: ENGP9103 EX: ENGRG3101	✓								
ENGP9107	Water Resource Management	EX: ENGRG9103	✓								
ENGP9108	Structural Engineering 3	PR: ENGP9103 EX: ENGRG9104	✓	✓							
ENGP9109	Geotechnical Engineering 3	PR: ENGP9104 EX: ENGRG9105	✓								
ENGP9206	Advanced Control System Engineering	EX: ENGRG9203	✓	✓							
ENGP9207	Electrical Power Distribution Engineering	PR: ENGP9202 EX: ENGRG9204	✓	✓							
ENGP9208	IOT in Smart Energy Systems	PR: ENGP9202 EX: ENGRG9205	✓								
ENGP9210	Power Electronic Application to Renewable Energy	PR: ENGP9201 EX: ENGRG9206	✓								
ENGP9304	Thermodynamics	EX: ENGRG2304	✓								
ENGP9305	Advanced Robotics	EX: ENGRG9302	✓	✓							
ENGP9307	Energy Conversion	PR: ENGP9302 EX: ENGRG9304	✓								
ENGP9308	Advanced Vibration Engineering	PR: ENGP9303 EX: ENGRG9305	✓								
ENGP9403	Rock Mechanics Application	EX: ENGIN2503	✓			✓					
ENGP9407	Smart Engineering Technologies	EX: ENGRG9401	✓			✓					
ENGP9408	Ore Reserve Estimation	EX: ENGRG9402	✓			✓					
ENGP9410	Surface Mining Operations and Equipment	EX: ENMIN3070 or ENMIN5018	✓			✓					

ENGINEERING UNIT LIST

Semester 2, 2026

Unit Code	Unit Name	Unit Rules	MTH	CHLL	BER	ODL	FLXB	FLXG	FLXK	MELC	SYDA
ENPG9411	Underground Production Systems	EX: ENMIN5130 or ENGIN5512	✓			✓					
ENGRG1002	Physics for Engineers 1	EX: ENGIN1002							✓		
ENGRG1004	Physics for Engineers 2	EX: ENGIN1002 or ENGIN1003	✓	✓		✓			✓		
ENGRG1005	Engineering Design 2	EX: ENGIN1004 or ENGIN3002	✓	✓	✓	✓					
ENGRG2102	Geotechnical Engineering 1	PR: ENGRG1002 EX: ENGIN2204	✓	✓		✓					
ENGRG2103	Water and Wastewater System	PR: ENGRG1002 EX: ENGIN3206	✓	✓		✓					
ENGRG2104	Structural Engineering 1	PR: ENGRG1002 EX: ENGIN2203 or ENGIN2301	✓	✓							
ENGRG2105	Road and Traffic Engineering	PR: ENGRG1002 and ENGRG1004 EX: ENGIN3205	✓	✓		✓					
ENGRG2201	Digital Logic and Electronic Systems	EX: ENGIN2105	✓	✓							
ENGRG2202	Power Electronics	PR: ENGRG1004 or must be undertaking EZ9 EX: ENGIN3101	✓	✓							
ENGRG2203	Communication Engineering	PR: ENGRG1004 EX: ENGIN3104	✓	✓							
ENGRG2204	Renewable Energy Principles	PR: ENGRG1004 EX: ENGIN2103	✓	✓		✓					
ENGRG2205	Electrical Machines Fundamentals	EX: ENGIN2404	✓	✓							
ENGRG2303	Engineering Dynamics	PR: ENGRG1002 EX: ENGIN2302	✓								
ENGRG2304	Thermodynamics	PR: ENGRG1002 and ENGRG1004 EX: ENGIN3304	✓								
ENGRG2305	Mechanism and Machine Theory	PR: MATHS2100 EX: ENGIN2303	✓								
ENGRG2306	Surface Mining Operations and Equipment	PR: ENGRG2403 for undergraduate students only EX: ENGIN3503	✓			✓					
ENGRG2402	Mining Geology and Mineral Processing		✓	✓		✓					
ENGRG2404	Rock Mechanics Application	EX: ENGIN5507	✓	✓		✓					
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	✓	✓							

ENGINEERING UNIT LIST Semester 2, 2026

Unit Code	Unit Name	Unit Rules	MTH	CHLL	BER	ODL	FLXB	FLXG	FLXK	MELC	SYDA
ENGRG9005	Advanced Engineering Research Project 2	PR: ENGRG9004 EX: ENGIN5003	✓	✓		✓					
MATHS2009	Space, Shape & Design (Intermediate Level)	PR: Must have completed 2 of MATHS% EX: MATHS1009	✓			✓					
MATHS2100	Applied Mathematics 2	EX: MATHS1005 or MATHS1102	✓	✓	✓	✓			✓		
MATHS3100	Applied Mathematics 3	PR: MATHS1100 EX: MATHS3001	✓	✓	✓	✓					
MATHS7002	Computational methods for Data Analysis	PR: STATS5000	✓			✓				✓	
MREGC5003	Industrial Techniques in Maintenance Management					✓					
MREGC5004	Asset Management Techniques					✓					
MREGC5006	Machine Condition Monitoring and Fault Diagnosis					✓					
MREGC5007	Risk Engineering					✓					
MREGC5103	Advanced Reliability					✓					
MREGC5104	Reliability Applications					✓					
STATS1000	Statistical Methods		✓	✓	✓	✓				✓	
STATS2100	Experimental Design & Analysis	PR: STATS1000	✓			✓					
STATS5000	Statistics and Reliability		✓			✓				✓	
STATS7101	Regression and Multivariate Data Analysis	PR: STATS5000	✓			✓				✓	

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*