

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	✓		✓	✓					
DATSC5001	Advanced Data Science Project	PR: ITECH5500	✓			✓				✓	
DATSC5002	Advanced Data Science Project 2	PR: ITECH5500	✓			✓				✓	
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	✓	✓							
ENGIN3301	Fluid Dynamics	PR: ENGIN2304 or ENCOR2100 EX: ENMEC3051	✓			✓					
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	✓	✓	✓						
ENGIN3501	Underground Production Systems	PR: ENGIN2502 for undergraduate students only EX: ENMIN3020	✓			✓					

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ENGIN3502	Subsurface Environmental Engineering	PR: ENGIN2304 for undergraduate students only EX: ENMIN3050 & ENMIN5023	✓			✓					
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	✓	✓							
ENGIN5209	Engineering Project Resource Planning		✓								
ENGIN5210	Engineering Project Execution		✓								
ENGIN5301	Machine System Design	PR: ENCOR2030 or ENGIN2301 and ENGIN3002 or ENMEC2120 EX: ENMEC7030	✓			✓					
ENGIN5405	Advanced Control Systems Engineering	EX: ENMTX4020	✓	✓							
ENGIN5501	Mine Safety and Environmental Engineering	EX: ENMIN5020	✓			✓					
ENGIN5503	Advanced Mine Ventilation	EX: ENMIN4050	✓			✓					
ENGIN5508	Smart Engineering Technologies	EX: ENGIN3001	✓			✓					
ENGIN5510	Company Economics and Finance	EX: ENMIN5150				✓					

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ENGIN5511	Mine Surveying	EX: ENMIN5021	✓			✓					
ENGIN5512	Underground Production Systems	EX: ENMIN5130	✓			✓					
ENGGPG9101	Geomatics Engineering	EX: ENGRG4101	✓								
ENGGPG9103	Structural Engineering 1	EX: ENGRG2104	✓	✓		✓					
ENGGPG9104	Geotechnical Engineering 2	EX: ENFIN3202 or ENGRG3102	✓	✓							
ENGGPG9105	Construction Engineering 2	EX: ENGRG4102	✓								
ENGGPG9106	Structural Engineering 2	PR: ENGGPG9103 EX: ENGRG3101	✓								
ENGGPG9107	Water Resource Management	EX: ENGRG9103	✓								
ENGGPG9108	Structural Engineering 3	PR: ENGGPG9103 EX: ENGRG9104	✓	✓							
ENGGPG9109	Geotechnical Engineering 3	PR: ENGGPG9104 EX: ENGRG9105	✓								
ENGGPG9110	Geotechnical Engineering 2	EX: ENGIN3202 or ENGRG3102	✓								
ENGGPG9111	Intelligent Technologies for Sustainable Construction	EX: ENGIN4203 or ENGRG4102 or ENGGPG9105	✓	✓		✓					
ENGGPG9206	Advanced Control System Engineering	EX: ENGRG9203	✓	✓							
ENGGPG9207	Electrical Power Distribution Engineering	PR: ENGGPG9202 EX: ENGRG9204	✓	✓							
ENGGPG9208	IOT in Smart Energy Systems	PR: ENGGPG9202 EX: ENGRG9205	✓								
ENGGPG9209	Microgrids and Energy Storage System	PR: ENGGPG9201 EX: ENGRG9206	✓								
ENGGPG9210	Power Electronic Application to Renewable Energy	PR: ENGGPG9201 EX: ENGRG9206	✓								
ENGGPG9304	Thermodynamics	EX: ENGRG2304	✓								
ENGGPG9305	Advanced Robotics	EX: ENGRG9302	✓	✓							
ENGGPG9307	Energy Conversion	PR: ENGGPG9302 EX: ENGRG9304	✓								
ENGGPG9308	Advanced Vibration Engineering	PR: ENGGPG9303 EX: ENGRG9305	✓								
ENGGPG9310	Design of Mechanical Systems	EX: ENGRG9303	✓			✓					
ENGGPG9311	Industrial Automation and IoT	EX: ENGRG9302	✓	✓							

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ENGG9403	Rock Mechanics Application	EX: ENGIN2503	✓			✓					
ENGG9404	Subsurface Environment and Ventilation	EX: ENGRG3402	✓			✓					
ENGG9406	Mine Surveying		✓			✓					
ENGG9407	Smart Engineering Technologies	EX: ENGRG9401	✓			✓					
ENGG9411	Underground Production Systems	EX: ENMIN5130 or ENGIN5512	✓			✓					
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	✓	✓		✓					
ENGRG2302	Fluid Mechanics	PR: ENGRG1002 EX: ENGIN3301	✓			✓					
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	✓			✓					
ENGRG2404	Rock Mechanics Application	EX: ENGIN5507	✓	✓		✓					
ENGRG3304	Industrial Automation and IoT	PR: ENGRG1004 EX: ENGIN2403 or ENGRG9302	✓	✓							

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ENGRG3402	Subsurface Environment and Ventilation	CO: ENGRG2302	✓			✓					
ENGRG3403	Underground Production Systems	CO: ENGRG2403	✓			✓					
ENGRG4202	Electrical Power Transmission Distribution and Protection	PR: ENGRG3201 EX: ENGRG9206, ENPG9207, ENGRG3202	✓	✓							
ENGRG4302	Design of Mechanical Systems	PR: ENGRG2301 and ENGRG2303 EX: ENGRG3302	✓			✓					
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	✓	✓		✓					
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	✓	✓	✓	✓					
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*