

Faculty Of Engineering

2018 & 2019 Course Offerings

Last updated: Thursday, 18 January 2018

Course offerings are subject to availability and may change. Course availability and Prerequisites should be checked at the time of each enrolment using the UNSW Handbook.

Career	Course	Course Name	Prerequisites	2018 Offerings		2019 Offerings		
				S1	S2	T1	T2	T3
UG	AERO3110	Aerospace Design	Prerequisite: MMAN2100	✗	✓	✗	✓	✗
UG	AERO3410	Aerospace Structures	Prerequisite: MMAN2400 or CVEN2301	✓	✗	✓	✗	✗
UG	AERO3630	Aerodynamics	Prerequisite: MMAN2600	✗	✓	✓	✗	✗
UG	AERO3660	Flight Performance and Propulsion	Prerequisite: MMAN2600 and MMAN2700 and (MMAN1300 or CVEN1300)	✓	✗	✓	✗	✗
UG	AERO4110	Aerospace Design Project A	Prerequisite: AERO3110	✗	✓	✗	✓	✗
UG	AERO4620	Dynamics of Aerospace Vehicles, Systems and Avionics	Prerequisite: AERO3660 and MMAN3200	✓	✗	✓	✗	✗
UG	AERO9500	Space Systems Architectures and Orbits	No Prerequisites	✓	✗	✗	✗	✓
UG	AERO9610	The Space Segment	No Prerequisites	✗	✓	✗	✗	✗
UG	AVEN1920	Introduction to Aircraft Engineering	No Prerequisites	✓	✗	✗	✓	✗
UG	BINF2010	Introduction to Bioinformatics	Prerequisite: BABS1201	✗	✓	✗	✓	✗
UG	BINF3010	Bioinformatics Methods and Applications	Prerequisite: BIOC2201.	✓	✗	✓	✗	✗
UG	BINF3020	Computational Bioinformatics	Prerequisite: COMP2521 or COMP1927	✓	✗	✗	✓	✗
UG	BINF3111	Bioinformatics Engineering Design Project A	Prerequisite: COMP1531 and COMP2041	✗	✓	✗	✗	✓
UG	BINF4111	Bioinformatics Engineering Design Project B	Prerequisite: COMP1531 and COMP2041			✓	✗	✗
UG	BINF4910	Thesis Part A	Prerequisite: COMP1927, or COMP1521 and COMP2521			✓	✗	✗
UG	BINF4911	Thesis Part B	Prerequisite: Completion of at least 72 UOC towards MIT program 8543. Students must be in their final semester of study.			✗	✓	✗
UG	BINF6111		See UNSW handbook			✓	✗	✗
UG	BINF6112		See UNSW handbook			✗	✓	✗
UG	BIOM1010	Engineering in Medicine and Biology	No Prerequisites	✗	✓	✗	✓	✗
UG	BIOM2451	Biomechanics for Sports Scientists	Excluded: All engineering students	✓	✗	✓	✗	✗
UG	BIOM5001	Thesis Part A (Mechanical Engineering, Mechatronics)	No Prerequisites	✓	✓	✓	✗	✓
UG	BIOM5003	Thesis Part B (Mechanical Engineering, Mechatronics)	No Prerequisites	✓	✓	✓	✓	✗
UG	BIOM5910	Thesis Part A	No Prerequisites	✓	✓	✓	✓	✗
UG	BIOM5911	Thesis Part B	No Prerequisites	✓	✓	✗	✓	✓
UG	BIOM5930	Thesis Part A (Chemical)	No Prerequisites	✓	✓	✗	✗	✓
UG	BIOM5932	Thesis Part B (Chemical)	No Prerequisites	✓	✓	✗	✓	✓
UG	BIOM5950	Thesis Part A (Computer Science Engineering)	Prerequisite: Completion of at least 126uc in program 3728 or 3757.	✓	✓	✓	✗	✓
UG	BIOM5951	Thesis Part B (Computer Science Engineering)	Prerequisite: BIOM5950	✓	✓	✓	✓	✗
UG	BIOM5960	Thesis Part A (SENG)	Prerequisite: Stage 4 of BE Software Engineering MBIomedE program 3749.	✗	✓	✓	✗	✓
UG	BIOM5961	Thesis Part B (SENG)	Prerequisite: BIOM5960	✓	✓	✓	✓	✗
UG	BIOM9021	Masters Project B	No Prerequisites	✓	✓	✓	✓	✓
UG	BIOM9027	Medical Imaging	No Prerequisites	✓	✗	✗	✗	✓
UG	BIOM9333	Cellular and Tissue Engineering	No Prerequisites	✓	✗	✗	✗	✓

UG	BIOM9432	Chemistry and Physics of Synthetic and Biological Polymers	No Prerequisites	✗	✓	✗	✓	✓
UG	BIOM9914	Masters Project	No Prerequisites	✓	✓	✓	✓	✓
UG	CEIC1000	Sustainable Product Engineering and Design	No Prerequisites	✗	✓	✗	✓	✗
UG	CEIC2000	Material and Energy Systems	Pre-requisites: PHYS1121 or PHY1131	✓	✗	✓	✗	✗
UG	CEIC2001	Fluid and Particle Mechanics	Pre-requisites: PHYS1121 or PHY1131	✓	✗	✓	✗	✗
UG	CEIC2002	Heat and Mass Transfer	Prerequisite:CEIC2001	✗	✓	✗	✓	✗
UG	CEIC2004	Industrial Chemistry for Chemical Engineers	Pre-requisites: CHEM1021 or CHEM1041 or CEIC1001 (Engineering Chemistry)	✓	✗	✗	✓	✓
UG	CEIC2005	Chemical Reaction Engineering	Prerequisite: CEIC2000	✗	✓	✗	✓	✗
UG	CEIC2007		See UNSW handbook			✓	✗	✗
UG	CEIC2009	Material and Energy Balances in the Chemical Process Industry	No Prerequisites	✗	✓	✗	✗	✓
UG	CEIC3000	Process Modelling and Analysis	Pre-requisites: MATH2019, MATH2089	✓	✗	✓	✗	✗
UG	CEIC3001	Advanced Thermodynamics and Separation	Pre-requisites: CEIC2000, CEIC2001, CEIC2002, CEIC2005	✓	✗	✓	✗	✗
UG	CEIC3002	Experimental Practice	Pre-requisites: CEIC2000, CEIC2005, MATH2089. Co-requisite: CEIC3001.	✗	✓	✓	✗	✗
UG	CEIC3003	Chemical Engineering Laboratory	No Prerequisites	✓	✗	✗	✗	✓
UG	CEIC3004	Process Equipment Design	Pre-requisites: CEIC2000, CEIC2001, CEIC2002, CEIC3001	✗	✓	✗	✓	✗
UG	CEIC3005	Process Plant Design	Pre-requisites: CEIC2000, CEIC2001, CEIC2002	✗	✓	✗	✓	✗
UG	CEIC3006	Process Dynamics and Control	Pre-requisites: CEIC2000, MATH2018 or MATH2019, MATH2089	✗	✓	✗	✓	✗
UG	CEIC4000	Environment and Sustainability	No Prerequisites	✓	✓	✓	✓	✗
UG	CEIC4001	Process Design Project	Prerequisite: at least 144 Units taken in Chemical Eng or Industrial Chem programs and excludes CEIC4005	✓	✗	✓	✓	✓
UG	CEIC4002	Thesis A	Prerequisite: at least 144 Units taken in Chemical Eng or Industrial Chem programs and excludes CEIC4005	✓	✓	✓	✓	✓
UG	CEIC4003	Thesis B	Prerequisite: CEIC4002	✓	✓	✓	✓	✓
UG	CEIC4005	Thesis	Prerequisite: at least 144 Units taken in Chemical Eng or Industrial Chem programs and INDC2003 CEIC3003	✓	✓	✓	✓	✓
UG	CEIC4200	Industrial Experience	No Prerequisites	✓	✓	✓	✓	✓
UG	CEIC4201	Industrial Experience	No Prerequisites	✓	✓	✓	✓	✓
UG	CEIC6005	Fuel and Energy	Prerequisites:MATS1101/CHEM1011/CHEM1021, CEIC2000,CEIC2002	✗	✓	✓	✗	✗
UG	CHEN6701	Advanced Reaction Engineering	No Prerequisites	✗	✓	✗	✗	✓
UG	CHEN6703	Advanced Particle Systems Engineering	No Prerequisites	✗	✓	✗	✓	✗
UG	CHEN6706	Advanced Transport Phenomena	Pre-requisites: CEIC2001, CEIC2002, MATH2019	✓	✗	✗	✗	✓
UG	COMP1000	Introduction to World Wide Web, Spreadsheets and Databases	No Prerequisites	✓	✗	✗	✓	✗
UG	COMP1400	Programming for Designers	Prerequisite: Enrolment in a non-CSE major (no BINF, COMP, or SENG)	✗	✓	✗	✓	✗
UG	COMP1511	Introduction to Programming	No Prerequisites	✓	✓	✓	✓	✓
UG	COMP1521	Computer Systems Fundamentals	Prerequisite: COMP1511 or COMP1911 or COMP1917	✓	✓	✗	✓	✓
UG	COMP1531	Software Engineering Fundamentals	Prerequisite: COMP1511 or COMP1917 or COMP1921	✓	✓	✓	✗	✓
UG	COMP1911	Computing 1A	Prerequisite: Enrolment in a non-CSE major (no BINF, COMP, or SENG)	✓	✗	✓	✗	✗
UG	COMP1921	Computing 1B	Prerequisite: COMP1911.			✗	✓	✗
UG	COMP1927	Computing 2	Prerequisite: COMP1511 or COMP1917 or COMP1921			✗	✓	✗
UG	COMP2041	Software Construction: Techniques and Tools	Prerequisite: COMP1511 or COMP1917 or COMP1921	✗	✓	✗	✓	✗
UG	COMP2111	System Modelling and Design	Prerequisite: MATH1081, and COMP1511 or COMP1917 or COMP1921	✓	✗	✓	✗	✗
UG	COMP2121	Microprocessors and Interfacing	Prerequisite: COMP1917 or COMP1921 or COMP1511 or COMP1521, or (COMP1911 and MTRN2500)	✓	✓	✓	✓	✗
UG	COMP2511	Object-Oriented Design & Programming	Prerequisite: COMP1927, or (COMP1531 or SENG1031, and COMP2521)	✓	✓	✗	✓	✓
UG	COMP2521	Data Structures and Algorithms	Prerequisite: COMP1511 or COMP1917 or COMP1921	✓	✓	✓	✓	✓
UG	COMP2911	Engineering Design in Computing	Prerequisite: COMP1927 or COMP2521 or MTRN3500			✗	✗	✓
UG	COMP3121	Algorithms and Programming Techniques	Prerequisite: COMP1927 or COMP2521 or a mark of at least 65 in COMP1921	✓	✗	✗	✓	✗
UG	COMP3131	Programming Languages and Compilers	Prerequisite: COMP2511 or COMP2911	✓	✗	✓	✗	✗
UG	COMP3141	Software System Design and Implementation	Prerequisite: COMP1927 or COMP2521 or a mark of at least 65 in COMP1921	✓	✗	✗	✓	✗
UG	COMP3151	Foundations of Concurrency	Prerequisite: COMP1927, or COMP1521 and COMP2521	✗	✓	✗	✓	✗
UG	COMP3153	Algorithmic Verification	Prerequisite: COMP2521 or COMP1927	✓	✗	✗	✓	✗
UG	COMP3161	Concepts of Programming Languages	Prerequisite: COMP2521 or COMP1927	✗	✓	✗	✗	✓
UG	COMP3211	Computer Architecture	Prerequisite: COMP3222 or ELEC2141.	✓	✗	✓	✗	✗
UG	COMP3222	Digital Circuits and Systems	Prerequisite: COMP2121, or (ELEC1111 or ELEC1112, and COMP1521 or COMP1927)	✗	✓	✗	✗	✓

UG	COMP3231	Operating Systems	Prerequisite: COMP1521 or COMP2121, and COMP2521 or COMP1927	✓	✗	✓	✗	✗
UG	COMP3311	Database Systems	Prerequisite: COMP1927 or COMP2521 or a mark of at least 65 in COMP1921	✓	✗	✓	✗	✓
UG	COMP3331	Computer Networks and Applications	Prerequisite: COMP1921 or COMP1927 or MTRN3500, or (COMP1521, and COMP2521 or MTRN3500)	✓	✓	✓	✗	✓
UG	COMP3411	Artificial Intelligence	Prerequisite: COMP2521 or COMP1927	✓	✗	✓	✗	✗
UG	COMP3421	Computer Graphics	Prerequisite: COMP2511 or COMP2911	✗	✓	✗	✓	✗
UG	COMP3431	Robotic Software Architecture	Prerequisite: COMP2521 or COMP1927, and a WAM of at least 70	✗	✓	✗	✗	✓
UG	COMP3441	Security Engineering	Prerequisite: Completion of 48 UOC	✗	✓	✓	✗	✗
UG	COMP3511	Human Computer Interaction	Prerequisite: Completion of 48 UOC	✗	✓	✗	✗	✓
UG	COMP3601	Design Project A	Prerequisite: COMP2121	✗	✓	✗	✗	✓
UG	COMP3821	Extended Algorithms and Programming Techniques	Prerequisite: COMP2521, or a mark of at least 65 in COMP1927, or a mark of at least 75 in COMP1921	✓	✗	✓	✗	✗
UG	COMP3891	Extended Operating Systems	Prerequisite: COMP1521 or COMP2121, and COMP2521 or COMP1927, and a WAM of at least 75	✓	✗	✓	✗	✗
UG	COMP3900	Computer Science Project	Prerequisite: COMP1927, or (COMP1531 or SENG1031, and COMP2521)	✓	✓	✗	✓	✗
UG	COMP3901	Special Project A	Prerequisite: 80WAM in COMP, SENG or BINF courses, completion of all first and second year core requirements a CSE program, and agreement from a suitable CSE academic supervisor.	✓	✓	✓	✓	✓
UG	COMP3902	Special Project B	Prerequisite: 80WAM in COMP, SENG or BINF courses, completion of all first and second year core requirements a CSE program, and agreement from a suitable CSE academic supervisor.	✓	✓	✓	✓	✓
UG	COMP4121	Advanced and Parallel Algorithms	Prerequisite: COMP3121 or COMP3821.	✗	✓	✗	✗	✓
UG	COMP4128	Programming Challenges	Co-requisite: COMP3821, or COMP3121 and a 75WAM	✓	✗	✓	✗	✗
UG	COMP4141	Theory of Computation	Prerequisite: MATH1081, and COMP1927 or COMP2521	✗	✓	✗	✓	✗
UG	COMP4161	Advanced Topics in Software Verification	Prerequisite: Completion of 48 UOC	✗	✓	✗	✓	✗
UG	COMP4181	Language-based Software Safety	Prerequisite: COMP2521 or COMP1927	✗	✓	✗	✗	✓
UG	COMP4211	Advanced Architectures and Algorithms	See UNSW handbook			✓	✗	✗
UG	COMP4335	Wireless Mesh and Sensor Networks	See UNSW handbook			✓	✗	✗
UG	COMP4336	Mobile Data Networking	Prerequisite: COMP3331.	✗	✓	✗	✓	✗
UG	COMP4337	Securing Wireless Networks	Prerequisite: COMP3331.	✓	✗	✓	✗	✗
UG	COMP4411	Experimental Robotics	See UNSW handbook			✓	✗	✗
UG	COMP4418	Knowledge Representation and Reasoning	Prerequisite: COMP3411 or COMP4415	✗	✓	✗	✗	✓
UG	COMP4601	Design Project B	Prerequisite: COMP3211 and COMP3601.	✓	✗	✓	✗	✗
UG	COMP4904	Industrial Training 1	Prerequisite: 72uc completed in Computer Science Co-op program.	✗	✓	✓	✗	✗
UG	COMP4905	Industrial Training 2	Prerequisite: COMP4904	✗	✓	✗	✓	✗
UG	COMP4906	Industrial Training 3	Prerequisite: COMP4905	✓	✗	✗	✗	✓
UG	COMP4910	Thesis Part A	Prerequisite: 126 units of credit and enrolment in Computer Engineering program prior to 2006, or enrolment in Computer Science [Honours] program.			✓	✗	✗
UG	COMP4911	Thesis Part B	Prerequisite: COMP4910.			✗	✓	✗
UG	COMP4920	Management and Ethics	Prerequisite: COMP2511 or COMP2911, and in the final year of the BSc Computer Science or BE / BE (Hons) Bioinformatics Engineering or Computer Engineering. Software Engineering students enrol in SENG4920.	✗	✓	✗	✗	✓
UG	COMP4930	Thesis Part A	Prerequisite: Enrolment in Bachelor of Science (Honours) program 4515, or 126 units of credit completed in BE Computer Engineering, BE Bioinformatics or Bioinformatics Engineering, or BE (Honours) Software Engineering.	✓	✓	✓	✓	✓
UG	COMP4931	Thesis Part B	Prerequisite: COMP4930. Excluded: Program 4515.	✓	✓	✓	✓	✓
UG	COMP4941	Thesis Part B	Prerequisite: COMP4930 and [75 WAM or enrolment in Computer Science Honours]	✓	✗	✓	✓	✓
UG	COMP6445	Digital Forensics	Prerequisite: COMP3441 or COMP6441 or COMP6841, and COMP3231 or COMP3891	✗	✓	✗	✗	✓
UG	COMP6447	System and Software Security Assessment	Prerequisite: A mark of at least 65 in COMP6841, or a mark of at least 75 in COMP6441 or COMP3441.	✗	✓	✗	✗	✓
UG	COMP6448	Security Engineering Masterclass	Prerequisite: COMP6841			✓	✗	✗
UG	COMP6449	Security Engineering Professional Practice	Prerequisite: COMP6441 or COMP6841 or COMP3441			✗	✓	✗
UG	COMP6733	Internet of Things Experimental Design Studio	Prerequisite: 65 WAM and COMP3331	✓	✗	✗	✗	✓
UG	COMP6741	Parameterized and Exact Computation	Prerequisite: COMP3121 or COMP3821.	✗	✓	✗	✓	✗
UG	COMP6752	Modelling Concurrent Systems	Prerequisite: COMP2521 or COMP1927	✓	✗	✓	✗	✗
UG	COMP6771	Advanced C++ Programming	Prerequisite: COMP2511 or COMP2911	✗	✓	✗	✓	✗
UG	COMP6845	Extended Digital Forensics and Incident Response	Prerequisite: COMP3441 or COMP6441 or COMP6841, and COMP3231 or COMP3891	✗	✓	✗	✗	✓
UG	COMP9116	Software System Development Using the B-Method and B-Toolkit	See UNSW handbook			✗	✓	✗
UG	COMP9243	Distributed Systems	Prerequisite: [COMP3231 or COMP3891] and [COMP3331 or TELE3018].	✓	✗	✓	✗	✗
UG	COMP9319	Web Data Compression and Search	Prerequisite: COMP2521 or COMP1927			✗	✓	✗
UG	COMP9333	Advanced Computer Networks	Prerequisite: COMP3331.			✗	✓	✗

UG	COMP9444	Neural Networks and Deep Learning	Prerequisite: COMP1927 or COMP2521 or MTRN3500	✗	✓	✗	✗	✓
UG	COMP9844	Extended Neural Networks and Deep Learning	Prerequisite: COMP2521 or COMP1927 or MTRN3500, and a WAM of at least 70	✗	✓	✗	✗	✓
UG	CVEN1701	Environmental Principles and Systems	No Prerequisites	✗	✓	✗	✗	✓
UG	CVEN2002	Engineering Computations for Civil Engineers	Prerequisite: MATH1231 or MATH1241.	✗	✓	✗	✓	✗
UG	CVEN2101	Engineering Construction	No Prerequisites	✗	✓	✗	✗	✓
UG	CVEN2301	Mechanics of Solids for Civil Engineers	Corequisite: CVEN1300.	✓	✗	✓	✗	✗
UG	CVEN2303	Structural Analysis and Modelling	Prerequisites: CVEN1300 and CVEN2301	✗	✓	✗	✓	✗
UG	CVEN2401	Sustainable Transport and Highway Engineering	No Prerequisites	✓	✗	✗	✓	✗
UG	CVEN2402	Transport Engineering and Environmental Sustainability	No Prerequisites	✓	✗	✗	✓	✗
UG	CVEN2501	Principles of Water Engineering	No Prerequisites	✓	✗	✓	✗	✗
UG	CVEN2701	Water and Atmospheric Chemistry	Prerequisite: CHEM1011 or CHEM1031.	✗	✓	✗	✓	✗
UG	CVEN2702	Engineering Computations for Environmental Engineers	Prerequisite: MATH1231 or MATH1241.	✗	✓	✗	✓	✗
UG	CVEN3031	Civil Engineering Practice	No Prerequisites	✗	✓	✗	✓	✗
UG	CVEN3101	Engineering Operations and Control	No Prerequisites	✓	✗	✗	✗	✓
UG	CVEN3202	Soil Mechanics	No Prerequisites	✓	✗	✗	✗	✓
UG	CVEN3203	Applied Geotechnics and Engineering Geology	Prerequisite: CVEN2201 or CVEN3202	✗	✓	✓	✗	✗
UG	CVEN3303	Steel Structures	Prerequisites: CVEN1300 and CVEN2301	✓	✗	✓	✗	✗
UG	CVEN3304	Concrete Structures	Prerequisites: CVEN1300 and CVEN2301	✗	✓	✗	✓	✗
UG	CVEN3501	Water Resources Engineering	No Prerequisites	✓	✗	✓	✗	✗
UG	CVEN3502	Water and Wastewater Engineering	Prerequisite: CVEN2501.	✗	✓	✗	✓	✗
UG	CVEN3701	Environmental Frameworks, Law and Economics	Prerequisite: CVEN1701	✓	✗	✓	✗	✗
UG	CVEN3702	Solid Wastes and Contaminant Transport	No Prerequisites	✗	✓	✗	✗	✓
UG	CVEN3731	Environmental Engineering Practice	No Prerequisites	✗	✓	✗	✓	✗
UG	CVEN4002	Design Practice A	Prerequisite: 132 UOCs needed to enrol into this course and BE Hons Programs only	✓	✗	✗	✓	✗
UG	CVEN4003	Design Practice B	Pre Req: 132UOC + CVEN (Pass) Programs	✗	✓	✗	✗	✓
UG	CVEN4030	Honours Thesis A	Prerequisite: 132 units of credit completed and WA of 63.	✓	✓	✓	✗	✓
UG	CVEN4031	Honours Thesis B	Prerequisite: CVEN4030.	✓	✓	✓	✓	✗
UG	CVEN4032	Higher Honours Thesis A	Pre: 132UOC and Minimum WAM of 80	✓	✓	✗	✓	✓
UG	CVEN4033	Higher Honours Thesis B	Prerequisite: CVEN4032.	✓	✓	✓	✓	✗
UG	CVEN4040	Research Thesis A	Minimum WAM of 70 and completion of 132UOC	✓	✓	✓	✓	✗
UG	CVEN4041	Research Thesis B	Prerequisite: CVEN4040	✓	✓	✗	✓	✓
UG	CVEN4050	Thesis A	Prerequisite: 132 UOCs needed to enrol into this course and BE Hons Programs only	✓	✓	✓	✗	✓
UG	CVEN4051	Thesis B	Prerequisite: 132 UOCs needed to enrol into this course and BE Hons Programs only	✗	✓	✓	✓	✗
UG	CVEN4101	Problem Solving for Engineers	Prerequisite: CVEN3101.	✗	✓	✓	✗	✗
UG	CVEN4102	Operations and Projects	Prerequisite: CVEN3101.	✗	✓	✗	✓	✗
UG	CVEN4103	Engineering Contracts	Prerequisite: CVEN3101.	✓	✗	✗	✗	✓
UG	CVEN4104	Sustainability in Construction	Prerequisite: CVEN3101.	✓	✗	✗	✗	✓
UG	CVEN4201	Rock and Slope Engineering	Prerequisite/s: CVEN2201 OR CVEN3202 & CVEN3201 OR CVEN3203	✓	✗	✓	✗	✗
UG	CVEN4202	Advanced Topics in Geotechnical Engineering	Prerequisite/s: CVEN2201 OR CVEN3202 & CVEN3201 OR CVEN3203	✗	✓	✗	✓	✗
UG	CVEN4203	Geomechanics	Prerequisite/s: CVEN2201 OR CVEN3202 & CVEN3201 OR CVEN3203			✗	✗	✓
UG	CVEN4204	Ground Improvement and Monitoring Techniques	Prerequisite/s: CVEN2201 OR CVEN3202 & CVEN3201 OR CVEN3203	✗	✓	✗	✗	✓
UG	CVEN4301	Advanced Concrete Structures	Prerequisite/s: CVEN3301 OR CVEN2303 AND CVEN3302 OR CVEN3304.	✓	✗	✗	✓	✗
UG	CVEN4308	Structural Dynamics	Prerequisites: CVEN3301 OR CVEN2303 and CVEN2002 (or equivalent).	✗	✓	✗	✗	✓
UG	CVEN4310	Deformation Monitoring Surveys	Prerequisites: GMAT1110			✓	✗	✗
UG	CVEN4402	Transport Systems - Part 1: Network Analysis	Prerequisite/s: CVEN2401 OR CVEN3401 OR CVEN2402 OR CVEN3402.	✓	✗	✗	✓	✗
UG	CVEN4404	Fundamentals of Traffic Engineering	Prerequisite/s: CVEN2401 OR CVEN3401 OR CVEN2402 OR CVEN3402.			✓	✗	✗
UG	CVEN4503	Groundwater Resource Investigation	Prerequisite: CVEN3501.	✓	✗	✗	✗	✓
UG	CVEN4504	Advanced Water and Wastewater Treatment	Prerequisite: CVEN3502	✗	✓	✗	✗	✓
UG	CVEN4507	Advanced Water Engineering	Prerequisites: CVEN2501, CVEN3501, CVEN3502	✗	✓	✗	✓	✗
UG	CVEN4701	Planning Sustainable Infrastructure	Prerequisite: CVEN1701	✓	✓	✗	✓	✓
UG	CVEN4703	Advanced Water Quality Principles	Prerequisite: CVEN3502	✓	✗	✗	✓	✗

UG	CVEN4705	Environmental Sustainability - Methods, Tools, Management	No Prerequisites			✗	✓	✗
UG	CVEN4800	Satellite Remote Sensing and Applications	No Prerequisites			✓	✗	✗
UG	CVEN4999	Co-op Industrial Training	No Prerequisites	✓	✓	✓	✓	✓
UG	CVEN9405	Urban Transport Planning Practice	See UNSW handbook	✗	✗	✓	✗	✓
UG	CVEN9415	Transport Systems Part 2	See UNSW handbook	✗	✓	✗	✓	✗
UG	CVEN9612	Catchment and Water Resources Modelling	See UNSW handbook	✗	✓	✗	✓	✗
UG	CVEN9620	Channels, Rivers and Estuaries	See UNSW handbook	✗	✓	✗	✓	✗
UG	CVEN9640	Coastal Engineering	No Prerequisites	✓	✗	✗	✗	✓
UG	CVEN9818	Bridge Engineering	See UNSW handbook	✗	✗	✗	✗	✓
UG	CVEN9820	Computational Structural Mechanics	No Prerequisites	✓	✗	✗	✗	✓
UG	CVEN9822	Steel and Composite Structures	See UNSW handbook			✗	✓	✗
UG	CVEN9824	Advanced Materials Technology	See UNSW handbook	✓	✗	✓	✗	✗
UG	CVEN9881	Hazardous Waste Management	See UNSW handbook	✗	✓	✗	✓	✗
UG	CVEN9884	Environmental Engineering Science 1	See UNSW handbook	✗	✓	✗	✓	✗
UG	ELEC0390	Energy Tomorrow	No Prerequisites	✗	✓	✗	✗	✓
UG	ELEC1111	Electrical and Telecommunications Engineering	No Prerequisites	✓	✓	✓	✓	✓
UG	ELEC2133	Analogue Electronics	Prerequisite: ELEC2134	✗	✓	✗	✓	✗
UG	ELEC2134	Circuits and Signals	Co-Requisite: elec1111 or elec1112	✓	✗	✓	✗	✓
UG	ELEC2141	Digital Circuit Design	Pre-Requisite: elec1111 or elec1112	✓	✗	✓	✗	✓
UG	ELEC2142	Embedded Systems Design	Prerequisite: ELEC2141& (COMP1921or Comp1521 or Comp1917)	✗	✓	✗	✓	✗
UG	ELEC2146	Electrical Engineering Modelling and Simulation	Prerequisite: (COMP1911 or COMP1917) and ELEC2134	✗	✓	✗	✗	✓
UG	ELEC3104	Digital Signal Processing	Prerequisite: ELEC2134	✓	✗	✓	✗	✗
UG	ELEC3105	Electrical Energy	Prerequisite/s: ELEC2134 and ELEC3115	✗	✓	✗	✓	✗
UG	ELEC3106	Electronics	Prerequisite/s: ELEC2133 and ELEC2141	✓	✗	✗	✓	✗
UG	ELEC3111	Distributed Energy Generation	Prerequisite: ELEC2134	✓	✗	✗	✗	✓
UG	ELEC3114	Control Systems	Prerequisite: ELEC2134	✗	✓	✗	✓	✗
UG	ELEC3115	Electromagnetic Engineering	No Prerequisites	✓	✗	✓	✗	✗
UG	ELEC3117	Electrical Engineering Design	Prereq: ELEC2133	✗	✓	✗	✗	✓
UG	ELEC3145	Real Time Instrumentation	Pre-req:(comp1911 or comp1917) and (elec2141 or mtrn3200 or comp3222)	✗	✓	✗	✓	✗
UG	ELEC4120	Thesis - Part A (Electrical Engineering)	Prerequisite: ELEC3117 and 120 units of credit	✓	✓	✓	✓	✗
UG	ELEC4121	Thesis - Part B (Electrical Engineering)	Prerequisite: ELEC4120	✓	✓	✗	✓	✓
UG	ELEC4122	Strategic Leadership and Ethics	Prerequisite: 120 units of credit	✓	✓	✓	✗	✗
UG	ELEC4123	Electrical Design Proficiency	No Prerequisites	✓	✓	✓	✓	✗
UG	ELEC4445	Entrepreneurial Engineering	Prerequisite: 132 units of credit.	✗	✓	✗	✓	✗
UG	ELEC4601	Digital and Embedded Systems Design	Prereq: ELEC3106	✓	✗	✗	✓	✗
UG	ELEC4602	Microelectronic Design and Technology	Prereq: ELEC3106	✗	✓	✗	✓	✗
UG	ELEC4603	Solid State Electronics	Prereq: ELEC2133	✓	✗	✗	✗	✓
UG	ELEC4604	Radio Frequency Electronics	Prereq: ELEC3106	✓	✗	✓	✗	✗
UG	ELEC4611	Power System Equipment	Prereq: ELEC3105	✓	✗	✓	✗	✗
UG	ELEC4612	Power System Analysis	Prereq: ELEC3105	✓	✗	✗	✗	✓
UG	ELEC4613	Electrical Drive Systems	Prereq: ELEC3105	✗	✓	✗	✗	✓
UG	ELEC4614	Power Electronics	Prereq: ELEC2133	✓	✗	✓	✗	✗
UG	ELEC4617	Power System Protection	Pre-Requisite: elec4612	✗	✓	✗	✓	✗
UG	ELEC4621	Advanced Digital Signal Processing	Prereq: ELEC3104	✓	✗	✓	✗	✗
UG	ELEC4622	Multimedia Signal Processing	Prereq: ELEC3104	✗	✓	✗	✓	✗
UG	ELEC4623	Biomedical Instrumentation, Measurement and Design	Prereq: ELEC3104	✓	✓	✗	✗	✓
UG	ELEC4631	Continuous - Time Control System Design	Prereq: ELEC3114	✓	✗	✗	✓	✗
UG	ELEC4632	Computer Control Systems	Prereq: ELEC3114	✗	✗	✗	✗	✓
UG	ELEC4633	Real-Time Engineering	Prereq: ELEC3114	✓	✗	✓	✗	✗
UG	ENGG0360	Communicating in Engineering	No Prerequisites	✓	✓	✓	✗	✗
UG	ENGG1000	Introduction to Engineering Design and Innovation	No Prerequisites	✓	✓	✓	✗	✓

UG	ENGG1200	Undergraduate Special Projects	No Prerequisites	✓	✓	✗	✓	✗
UG	ENGG1300	New course to replace MMAN1300 & CVEN1300	See UNSW handbook			✗	✓	✓
UG	ENGG1400	Engineering Infrastructure Systems	No Prerequisites	✗	✓	✗	✓	✗
UG	ENGG1811	Computing for Engineers	No Prerequisites	✓	✓	✓	✗	✓
UG	FOOD1120	Introduction to Food Science	No Prerequisites	✓	✗	✓	✗	✓
UG	FOOD1130	Sustainable Food Product Manufacturing	No Prerequisites	✗	✓	✗	✓	✗
UG	FOOD1360	Food Processing Principles	Prerequisites: PHYS1111, MATH1031, MATH1041	✓	✗	✗	✗	✓
UG	FOOD2320	Food Microbiology	No Prerequisites	✗	✓	✗	✗	✓
UG	FOOD3010	Food Preservation	Prerequisites: CHEM1021 or CHEM1041	✓	✗	✓	✗	✗
UG	FOOD3020	Food Science and Technology Laboratory	Co-requisite: FOOD3010	✓	✗	✓	✗	✗
UG	FOOD3030	Food Safety and Quality Assurance	No Prerequisites	✗	✓	✗	✓	✗
UG	FOOD3220	Nutrition	Prerequisite: BIOC2181 or BIOC2101	✓	✗	✓	✗	✗
UG	FOOD3801	Unit Operations in Food Processing	Prerequisite: FOOD1360, FOOD3010	✗	✓	✗	✓	✗
UG	FOOD3901	Product Design and Development	Prerequisite: CHEM2921	✗	✓	✗	✓	✗
UG	FOOD4110	Advanced Food Chemistry	Prerequisite: CHEM2921	✓	✗	✓	✗	✗
UG	FOOD4403	Advanced Nutrition	Prerequisite: BIOC2181 or BIOC2101	✗	✓	✗	✓	✗
UG	FOOD5400	Industry Liaison	Prerequisite: 144 Units Of Credit.	✓	✗	✓	✗	✗
UG	FOOD6804	Food Diagnostics	Prerequisite :CHEM3811or INDC2003	✓	✗	✓	✗	✗
UG	FOOD6806	Food Toxicology	No Prerequisites	✗	✓	✗	✗	✓
UG	GENE1015	Environmental Sustainability - Methods, Tools, Management	No Prerequisites			✓	✗	✓
UG	GMAT1110	Surveying and Geospatial Engineering	No Prerequisites	✗	✓	✗	✓	✗
UG	GMAT2120	Surveying and Geospatial Technology	Prerequisite: GMAT1110	✗	✓	✗	✗	✓
UG	GMAT2500	Surveying Computations A	Prerequisites: GMAT1110	✓	✗	✗	✓	✗
UG	GMAT2550	Surveying Computations B	Prerequisite: MATH1231 or MATH1241.	✗	✓	✗	✗	✓
UG	GMAT2700	Foundations of Geodesy & Geospatial Ref Frames	Prerequisites: GMAT1110	✓	✗	✓	✗	✗
UG	GMAT3100	Surveying Applications and Design	Pre: GMAT2120 AND GMAT2550	✗	✓	✓	✗	✗
UG	GMAT3150	Surveying Field Projects	Pre: GMAT2500 AND GMAT2550	✗	✓	✓	✗	✗
UG	GMAT3220	Geospatial Information Systems	Prerequisites: GMAT1110	✓	✗	✓	✗	✗
UG	GMAT3420	Cadastral Surveying and Land Law	Pre: GMAT2500	✓	✗	✗	✗	✓
UG	GMAT3500	Remote Sensing and Photogrammetry	No Prerequisites	✗	✓	✗	✗	✓
UG	GMAT3700	Geodetic Positioning and Applications	Pre:GMAT2700 AND GMAT2550	✗	✓	✗	✓	✗
UG	GMAT4010	Undergraduate Project Thesis A	Pre Req: Minimum of 132UOC completed			✓	✗	✗
UG	GMAT4015	Undergraduate Project Thesis B	Prerequisite: GMAT4010			✗	✓	✗
UG	GMAT4150	Field Projects 2	Prerequisite: GMAT3150	✓	✗	✗	✓	✗
UG	GMAT4220	Geospatial Information Science	Pre:GMAT3220	✗	✓	✗	✓	✗
UG	GMAT4400	Land Management Project	No Prerequisites	✓	✗	✗	✗	✓
UG	GMAT4450	Land Management and Development Project 2	No Prerequisites			✗	✗	✓
UG	GMAT4900	Principles of GPS Positioning	No Prerequisites			✗	✗	✓
UG	GMAT9300	Aerial And Satellite Imaging Systems	See UNSW handbook	✗	✓	✗	✓	✗
UG	GMAT9606	Microwave Remote Sensing	See UNSW handbook	✓	✗	✓	✗	✗
UG	GSOE9740	Industrial Ecology and Sustainable Engineering	See UNSW handbook	✗	✓	✗	✓	✗
UG	GSOE9840	Process Improvement and Maintenance Engineering	See UNSW handbook			✓	✗	✗
UG	INDC2003	Instrumental Analysis	Pre-requisites: CHEM1021 or CHEM1041, and/or CEIC1001 Exclusions: CEIC2003			✗	✓	✗
UG	INDC3001	Applied Industrial Chemistry	Pre-requisites: CEIC2000, CHEM2021, MATH2089	✓	✗	✓	✗	✗
UG	INDC3002	Environmental Science and Technology	Pre-requisites: CHEM2021, CEIC2000			✗	✓	✗
UG	MANF3100	Product and Manufacturing Design	Prerequisite: ENGG1000 and (MMAN1130 or MMAN2130)	✓	✗	✓	✗	✗
UG	MANF3510	Process Technology and Automation	Prerequisite: MMAN1130 or MMAN2130	✗	✓	✗	✓	✗
UG	MANF4100	Design and Analysis of Product-Process Systems	pre-req MANF3100 MANF3510	✓	✗	✓	✗	✗
UG	MANF4430	Reliability and Maintenance Engineering	pre-requisite MATH2089	✗	✓	✓	✗	✗
UG	MANF4611	Process Modelling and Simulation	Prerequisite: MATH2089	✓	✗	✗	✓	✗
UG	MATS1101	Engineering Materials and Chemistry	No Prerequisites	✓	✓	✗	✓	✓

UG	MATS2006	Diffusion and Kinetics	No Prerequisites	✗	✓	✗	✗	✓
UG	MECH3091	Co-Operative Training A	Prerequisite: 144 units of credit	✓	✗	✗	✓	✗
UG	MECH3092	Co-Operative Training B	Prerequisite: 144 units of credit	✗	✓	✗	✗	✓
UG	MECH3110	Mechanical Design 1	Prerequisite: MMAN2100, MMAN2400	✗	✓	✗	✗	✗
UG	MECH3610	Advanced Thermofluids	Prerequisite: MMAN2600 and MMAN2700	✗	✓	✗	✓	✗
UG	MECH4100	Mechanical Design 2	Prerequisite: MECH3110 and (MMAN3300 or MMAN2300)	✗	✓	✗	✓	✗
UG	MECH4305	Fundamental and Advanced Vibration Analysis	Prerequisite: (MATH2019 OR MATH2018) AND (MMAN3300 or MMAN2300)	✓	✗	✗	✗	✓
UG	MECH4320	Engineering Mechanics 3	Prerequisite: (MATH2019 OR MATH2018) AND (MMAN3300 or MMAN2300)	✗	✓	✗	✓	✗
UG	MECH4620	Computational Fluid Dynamics	Prerequisite: MMAN2600 and MMAN2700	✓	✓	✓	✓	✗
UG	MECH4880	Refrigeration and Air Conditioning 1	Prerequisite: MMAN2600 and MMAN2700	✗	✓	✓	✗	✗
UG	MECH4900	Mechanics of Fracture and Fatigue	Prerequisite: MECH3400 or MMAN3400	✗	✓	✓	✗	✗
UG	MECH9325	Fundamentals of Acoustics and Noise	None	✓	✗	✗	✓	✗
UG	MECH9420	Composite Materials and Mechanics	Prerequisite: MMAN2400 or CVEN2301	✗	✓	✗	✗	✗
UG	MECH9620	Computational Fluid Dynamics	See UNSW handbook				✓	✗
UG	MECH9650	Introduction to Micro Electromechanical Systems	No Prerequisites	✗	✓	✓	✗	✗
UG	MECH9720	Solar Thermal Energy Design	Prerequisite: MMAN2600 and MMAN2700	✓	✗	✗	✓	✗
UG	MECH9761	Automobile Engine Technology	No Prerequisites	✓	✓	✗	✗	✓
UG	MINE1010	Mineral Resources Engineering	No Prerequisites	✓	✓	✗	✓	✓
UG	MINE2010	Mining Project Development	Prerequisite: MINE1010	✓	✗	✗	✓	✗
UG	MINE2610	Mining Services	No Prerequisites	✓	✗	✗	✓	✗
UG	MINE2810	Minerals and Processing	Prerequisite: GEOS1111 or CVEN3201	✗	✓	✗	✗	✓
UG	MINE3000	Research Elective	No Prerequisites			✓	✗	✗
UG	MINE3220	Resource Estimation	Prerequisite: MINE2010 or CVEN3201	✓	✗	✓	✗	✗
UG	MINE3230	Mine Planning	Prerequisite: MINE3220	✗	✓	✗	✓	✗
UG	MINE3310	Mining Geomechanics	Prerequisite: MINE2310 or CVEN2301	✓	✗	✓	✗	✗
UG	MINE3430	Mining Systems	Prerequisite: MINE2010 or CVEN3031	✓	✗	✓	✗	✗
UG	MINE3440	Surface Mining Systems	Prerequisite: MINE3430	✗	✓	✗	✓	✗
UG	MINE3450	Underground Mining Systems	Prerequisite: MINE3430			✗	✗	✓
UG	MINE3510	Mine Ventilation	Prerequisite: MINE2500 or CVEN2501 or MATS2005	✗	✓	✗	✗	✓
UG	MINE3630	Rock Breakage	Prerequisite: MINE3430	✗	✓	✗	✗	✓
UG	MINE3800	Mineral Processing	No Prerequisites	✗	✓	✗	✗	✓
UG	MINE3910	Socio-Environmental Aspects of Mining	No Prerequisites	✓	✗	✗	✓	✗
UG	MINE4250	Hardrock Mine Design and Feasibility Project	Prerequisite: MINE3230	✓	✗	✓	✗	✗
UG	MINE4260	Coal Mine Design and Feasibility Project	Prerequisite: MINE4250	✗	✓	✗	✓	✗
UG	MINE4310	Mine Geotechnical Engineering	Prerequisite: MINE3310	✓	✗	✓	✗	✗
UG	MINE4320	Advanced Geotechnical Engineering	Prerequisite: MINE4310			✓	✗	✗
UG	MINE4440	Mining Research Project I	Prerequisite: MINE3430	✓	✗	✓	✗	✓
UG	MINE4450	Mining Research Project II	Prerequisite: MINE4440	✓	✓	✓	✓	✓
UG	MINE4510	Advanced Mine Ventilation	Prerequisite: MINE3510			✗	✗	✓
UG	MINE4610	Mining Asset Management and Services	Prerequisite: MINE3430	✓	✗	✓	✗	✗
UG	MINE4620		See UNSW handbook			✗	✓	✗
UG	MINE4710	Mine Management	Prerequisite: MINE3430	✗	✓	✗	✓	✗
UG	MINE4820	Advanced Mineral Processing	No Prerequisites			✓	✗	✗
UG	MINE4910	Mining in a Global Environment	Prerequisite: MINE3910	✓	✗	✗	✗	✓
UG	MMAN1300	Engineering Mechanics	Prerequisite: (MATH1131 or MATH1141) and (PHYS1121 or PHYS1131 or PHYS1141)	✓	✓	✗	✓	✓
UG	MMAN2100	Engineering Design 2	Pre-requisite: ENGG1000	✗	✓	✗	✗	✓
UG	MMAN2130	Design and Manufacturing	No Prerequisites	✓	✓	✗	✓	✓
UG	MMAN2300	Engineering Mechanics 2	Prerequisite: (CVEN1300 or MINE1300 or MMAN1300) AND MATH2019 or MATH2018 or MATH2111 and MATH2221 or MATH2011 and MATH2121 or MATH2069 and MATH2121; Exclusion: MECH2300, MECH3300	✗	✓	✗	✓	✗
UG	MMAN2400	Mechanics of Solids 1	Prerequisite: (MATH1231 or MATH1241) and (MMAN1300 or CVEN1300 or MINE1300)	✓	✗	✗	✗	✓
UG	MMAN2600	Fluid Mechanics	Prerequisite: (MATH1131 or MATH1141) and (PHYS1121 or PHYS1131 or PHYS1141)	✗	✓	✗	✗	✓
UG	MMAN2700	Thermodynamics	Prerequisite: (MATH1131 or MATH1141) and (PHYS1121 or PHYS1131 or PHYS1141)	✓	✗	✓	✗	✗

UG	MMAN3000	Professional Engineering and Communication	No Prerequisites	✗	✓	✗	✓	✗
UG	MMAN3200	Linear Systems and Control	Prerequisite: MATH2019 or MATH2018 AND (MMAN1300 or CVEN1300) Exclusion: MECH3211, MTRN3212	✓	✗	✗	✓	✗
UG	MMAN3400	Mechanics of Solids 2	Prerequisite: MATH2019 OR MATH2018 AND MMAN2400; Exclusion: MECH2412, MECH3400	✓	✗	✓	✗	✗
UG	MMAN4010	Thesis A	Prerequisite: 132 Units of Credits	✓	✓	✓	✓	✓
UG	MMAN4020	Thesis B	Prerequisite: MMAN4010	✓	✓	✓	✓	✓
UG	MMAN4400	Engineering Management	No Prerequisites	✗	✓	✗	✗	✓
UG	MMAN4410	Finite Element Methods	pre-requisite MMAN2400	✓	✓	✓	✗	✓
UG	MTRN2500	Computing for Mechatronic Engineers	Prerequisite: COMP1917 or COMP1511 or COMP1911	✗	✓	✗	✗	✓
UG	MTRN3020	Modelling and Control of Mechatronic Systems	Prerequisite: MMAN3200 or ELEC3114	✗	✓	✗	✗	✗
UG	MTRN3500	Computing Applications in Mechatronics Systems	pre-requisite MTRN2500	✗	✓	✗	✓	✗
UG	MTRN4010	Advanced Autonomous Systems	pre-requisites: MMAN3200 AND MATH2089 AND MTRN2500	✓	✗	✓	✗	✗
UG	MTRN4030	Optimisation Methods for Engineering Systems	Prerequisite: MATH2089	✗	✓	✓	✗	✗
UG	MTRN4110	Robot Design	prerequisites: ELEC1111 OR ELEC1112 AND MTRN2500 AND MMAN3200	✓	✗	✗	✗	✗
UG	MTRN4230	Robotics	prereq: (MMAN2300 or MMAN3300)and(MTRN2500 and MTRN3020)	✗	✓	✗	✓	✗
UG	PHTN3117	Photonic Engineering Design	No Prerequisites			✓	✗	✗
UG	PHTN4120	Thesis - Part A (Photonic Engineering)	See UNSW handbook			✓	✓	✗
UG	PHTN4121	Thesis - Part B (Photonic Engineering)	See UNSW handbook			✗	✓	✓
UG	PHTN4123	Photonic Design Proficiency	No Prerequisites			✓	✗	✓
UG	PHTN4661	Optical Circuits and Fibres	Prereq: ELEC3115	✓	✗	✓	✗	✗
UG	PHTN4662	Photonic Networks	Prereq: TELE3113 or ELEC3115	✗	✓	✗	✓	✗
UG	POLY3000	Polymer Science	Pre-requisites: CHEM2021 or CEIC2004	✓	✗	✓	✗	✗
UG	PTRL1001	Introduction to Petroleum Engineering and Geology	No Prerequisites	✗	✓	✗	✗	✓
UG	PTRL2010	Business Practices in the Petroleum Industry	No Prerequisites	✓	✗	✗	✗	✓
UG	PTRL2019	Reservoir Engineering A	Prerequisite:MATH1231Corequisite:PTRL2018	✓	✓	✓	✗	✓
UG	PTRL2020	Petrophysics	See UNSW handbook	✗	✓	✗	✓	✗
UG	PTRL2030	Field Development Geology	See UNSW handbook	✗	✓	✗	✓	✗
UG	PTRL3001	Reservoir Engineering B	Prerequisite:PTRL2018,PTRL2019	✓	✗	✗	✓	✗
UG	PTRL3002	Reservoir Characterisation and Simulation	Prerequisite:PTRL3001,GEOS3321	✗	✓	✗	✓	✗
UG	PTRL3003	Field Development Geology and Geophysics	Prerequisite:GEOS3321	✓	✗	✗	✗	✓
UG	PTRL3015	Well Drilling Equipment and Operations	No Prerequisites	✓	✗	✓	✗	✗
UG	PTRL3022	Design Project for Petroleum Engineers	Prerequisite:CEIC2001	✗	✓	✗	✗	✓
UG	PTRL3023	Formation Evaluation	Prerequisite:PTRL3001	✗	✓	✗	✓	✗
UG	PTRL3025	Petroleum Economics	No Prerequisites	✗	✓	✓	✗	✗
UG	PTRL3030	Reservoir Characterisation and Geophysics	See UNSW handbook			✗	✓	✗
UG	PTRL3040	Numerical Reservoir Simulation	See UNSW handbook			✓	✗	✗
UG	PTRL3050	Well Pressure Testing	See UNSW handbook			✗	✗	✓
UG	PTRL4010	Integrated Oil and Gas Field Evaluation A	Prerequisite: PTRL2010,PTRL3002,PTRL3003,PTRL3023,PTRL3025	✓	✗	✓	✗	✗
UG	PTRL4011	Integrated Oil/Gas Field Evaluation B	Prerequisite:PTRL4010	✗	✓	✗	✓	✗
UG	PTRL4012	Enhanced Oil and Gas Recovery	Prerequisites: PTRL3002	✓	✗	✓	✗	✗
UG	PTRL4017	Well Technology	Prerequisite:PTRL3015	✗	✓	✗	✗	✓
UG	PTRL4020	Natural Gas Engineering	Prerequisite:PTRL3001,PTRL3022	✓	✗	✓	✗	✗
UG	PTRL4021	Petroleum Production Engineering	Prerequisite: PTRL3001,PTRL3022	✗	✓	✗	✓	✗
UG	PTRL4024	Drilling Fluids and Cementing	Prerequisite:PTRL3003,PTRL3015	✓	✗	✓	✗	✗
UG	PTRL4040	Research Thesis A	No Prerequisites	✓	✓	✗	✓	✗
UG	PTRL4041	Research Thesis B	No Prerequisites	✓	✓	✗	✓	✗
UG	PTRL5100	Geomechanics A	Prerequisite:PTRL2019	✓	✗	✓	✗	✗
UG	SENG1031	Software Engineering Workshop 1	Prerequisite: Enrolment in a Software or Bioinformatics Engineering stream.			✓	✗	✗
UG	SENG2011	Software Engineering Workshop 2A	Prerequisite: COMP2111.	✗	✓	✗	✗	✓
UG	SENG2021	Software Engineering Workshop 2B	Prerequisite: SENG1031 or COMP1531, and enrolment in a BE or BE(Hons) Software Engineering major.	✓	✗	✓	✗	✗
UG	SENG3011	Software Engineering Workshop 3	Prerequisite: SENG2021	✓	✗	✓	✗	✗
UG	SENG4906	Industrial Training 3	Prerequisite: SENG4905.	✓	✗	✓	✗	✗
UG	SENG4907	Industrial Training 4	Prerequisite: SENG4906.	✗	✓	✗	✓	✗

UG	SENG4910	Thesis Part A	Prerequisite: 126 units of credit completed in BE Software Engineering (SENGA1)	✓	✓	✓	✓	✓
UG	SENG4911	Thesis Part B	Prerequisite: SENG4910.	✓	✓	✓	✓	✓
UG	SENG4920	Ethics and Management	Prerequisite: SENG3011	✗	✓	✗	✗	✓
UG	SOLA1070	Sustainable Energy	No Prerequisites	✗	✓	✗	✗	✓
UG	SOLA2051	Project in Photovoltaics and Renewable Energy 1	No Prerequisites	✓	✗	✗	✓	✗
UG	SOLA2052	Project in Photovoltaics and Renewable Energy 2	No Prerequisites	✗	✓	✗	✗	✓
UG	SOLA2053	Sustainable and Renewable Energy Technologies	No Prerequisites	✗	✓	✓	✗	✗
UG	SOLA2060	Introduction to Electronic Devices	No Prerequisites	✓	✗	✓	✗	✗
UG	SOLA2540	Applied Photovoltaics	Prerequisite 48 UOC	✗	✓	✓	✗	✗
UG	SOLA3010	Low Energy Buildings and Photovoltaics	No Prerequisites	✗	✓	✗	✓	✗
UG	SOLA3020	Photovoltaic Technology and Manufacturing	Prerequisite: SOLA2540	✗	✓	✗	✓	✗
UG	SOLA3507	Solar Cells	SOLA4012	✓	✗	✓	✗	✗
UG	SOLA4012	Grid-Connected Photovoltaic Systems	No Prerequisites	✓	✗	✗	✓	✗
UG	SOLA4910	Thesis Part A	No Prerequisites	✓	✓	✓	✓	✓
UG	SOLA4911	Thesis Part B	No Prerequisites	✓	✓	✗	✓	✓
UG	SOLA5050	Renewable Energy Policy and International Programs	No Prerequisites	✓	✗	✓	✗	✗
UG	SOLA5051	Life Cycle Assessment	No Prerequisites	✗	✓	✗	✗	✓
UG	SOLA5052	Biomass	No Prerequisites	✓	✗	✗	✗	✓
UG	SOLA5053	Wind Energy Converters	No Prerequisites	✓	✗	✓	✗	✗
UG	SOLA5054	Photovoltaic Stand-Alone System Design and Installation	No Prerequisites			✗	✓	✗
UG	SOLA5056	Sustainable Energy for Developing Countries	Prerequisite 96 UOC	✗	✓	✓	✗	✗
UG	SOLA5057	Energy Efficiency	No Prerequisites	✓	✗	✓	✗	✗
UG	SOLA5058	Special Topic in Photovoltaics	No Prerequisites			✓	✗	✗
UG	SOLA5509	Fundamentals of Photovoltaic Materials Processing	Prerequisite 96 UOC			✗	✗	✓
UG	TELE3113	Analogue and Digital Communications	Prereq: ELEC2134	✗	✓	✓	✗	✗
UG	TELE3117	Telecommunications Engineering Design	Prereq: ELEC2133			✓	✗	✗
UG	TELE3118	Network Technologies	Prereq: ELEC2142	✓	✗	✗	✗	✓
UG	TELE3119	Trusted Networks	Prereq: TELE3118	✗	✓	✓	✗	✗
UG	TELE4120	Thesis Part A - (Telecommunications)	Prerequisite: TELE3117 and 120 units of credit			✓	✓	✗
UG	TELE4121	Thesis - Part B (Telecommunications Engineering)	Prerequisite: TELE4120			✗	✓	✓
UG	TELE4123	Telecommunications Design Proficiency	No Prerequisites			✗	✓	✓
UG	TELE4642	Network Performance	Prereq: TELE3118	✓	✗	✓	✗	✗
UG	TELE4651	Wireless Communication Technologies	Prereq: TELE3113	✗	✓	✗	✗	✓
UG	TELE4652	Mobile and Satellite Communications Systems	Prereq: TELE3113	✗	✓	✗	✓	✗
UG	TELE4653	Digital Modulation and Coding	Prereq: TELE3113	✓	✗	✓	✗	✗