

# Bachelor of Civil Engineering (Honours)/Bachelor of Business

## INFORMATION FOR STUDENTS WHO COMMENCED IN THE BACHELOR OF CIVIL ENGINEERING (HONOURS)/BACHELOR OF BUSINESS [40082] PRIOR TO 2023

The University is incorporating Work Integrated Learning (WIL) into all undergraduate programs as a 10-unit Core Course (ENGG3000 – Engineering Work Integrated Learning), for students commencing in the program from 2023 onwards. WIL provides students from all disciplines and backgrounds with the opportunity to gain real world work experience and improve employability outcomes.

**Students who commenced the program prior to 2023 aren't required to complete ENGG3000, due to the 12 weeks of Industrial Experience already included in the pre-2023 program.**

### Transition Arrangements

Students who commenced the program prior to 2023 will continue with their current program structure

Industrial Experience remains unchanged for pre-2023 students. A summary of the changes can be found below:

Cohort	Industrial Experience
Pre-2023 students	12 weeks Industrial Experience
2023 commencing students	8 weeks Industrial Experience plus 4 weeks as part of ENGG3000 – 12 weeks in total

The table below provides a summary of the changes to the Bachelor Civil Engineering (Honours)/Bachelor of Business:

2022 Program Requirements [40082]	2023 Program Requirements [40356]	Notes
<b>Core Courses (310 Units)</b>	<b>Core Courses (320 Units)</b>	
ACFI1001 – Accounting for Decision Makers (10 units)	ACFI1001 – Accounting for Decision Makers (10 units)	No change
ACFI1003 – Introduction to Finance (10 units)	ACFI1003 – Introduction to Finance (10 units)	No change
CIVL1100 – Fundamentals of Engineering Mechanics (10 units)	CIVL1100 – Fundamentals of Engineering Mechanics (10 units)	No change
CIVL1200 – Earth Systems (10 units)	CIVL1200 – Earth Systems (10 units)	No change
ECON1001 – Microeconomics for Business Decisions (10 units)	ECON1001 – Microeconomics for Business Decisions (10 units)	No change
ENGG1003 – Introduction to Procedural Programming (10 units)	ENGG1003 – Introduction to Procedural Programming (10 units)	No change
ENGG1500 – Introduction to Professional Engineering (10 units)	ENGG1500 – Introduction to Professional Engineering (10 units)	No change

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2022 Program Requirements [40082]	2023 Program Requirements [40356]	Notes
LEGL1001 – Foundations of Law (10 units)	LEGL1001 – Foundations of Law (10 units)	No change
MATH1110 – Mathematics for Engineering, Science and Technology 1 (10 units)	MATH1110 – Mathematics for Engineering, Science and Technology 1 (10 units)	No change
MATH1120 – Mathematics for Engineering, Science and Technology 2 (10 units)	MATH1120 – Mathematics for Engineering, Science and Technology 2 (10 units)	No change
MKTG1001 – Foundations of Marketing (10 units)	MKTG1001 – Foundations of Marketing (10 units)	No change
MNGT1001 – Introduction to Management (10 units)	MNGT1001 – Introduction to Management (10 units)	No change
PHYS1205 – Fundamentals of Engineering Physics (10 units)	PHYS1205 – Fundamentals of Engineering Physics (10 units)	No change
SURV1200 – Introduction to Surveying (10 units)	SURV1200 – Introduction to Surveying (10 units)	No change
CIVL2060 – Numerical Methods (10 units)	CIVL2060 – Numerical Methods (10 units)	No change
CIVL2130 – Structural Analysis 1 (10 units)	CIVL2130 – Structural Analysis 1 (10 units)	No change
CIVL2240 – Civil Engineering Materials (10 units)	CIVL2240 – Civil Engineering Materials (10 units)	No change
CIVL2282 – Introduction to Geomechanics (10 units)	CIVL2282 – Introduction to Geomechanics (10 units)	No change
CIVL2720 – Transportation Engineering and Design (10 units)	CIVL2720 – Transportation Engineering and Design (10 units)	No change
ENGG2100 – Engineering Risk and Uncertainty (10 units)	ENGG2100 – Engineering Risk and Uncertainty (10 units)	No change
ENGG2300 – Engineering Fluid Mechanics (10 units)	ENGG2300 – Engineering Fluid Mechanics (10 units)	No change
ENGG2500 – Sustainable Engineering Practice (10 units)	ENGG2500 – Sustainable Engineering Practice (10 units)	No change
CIVL3160 – Reinforced Concrete Design (10 units)	CIVL3160 – Reinforced Concrete Design (10 units)	No change

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2022 Program Requirements [40082]	2023 Program Requirements [40356]	Notes
CIVL3170 – Steel Design (10 units)	CIVL3170 – Steel Design (10 units)	No change
CIVL3180 – Structural Analysis 2 (10 units)	CIVL3180 – Structural Analysis 2 (10 units)	No change
CIVL3280 – Geomechanics 2 (10 units)	CIVL3280 – Geomechanics 2 (10 units)	No change
CIVL3330 - Hydrology (10 units)	CIVL3330 - Hydrology (10 units)	No change
CIVL3840 – Advanced Analysis for Design (10 units)	CIVL3840 – Advanced Analysis for Design (10 units)	No change
ENGG3500 – Managing Engineering Projects (10 units)	ENGG3500 – Managing Engineering Projects (10 units)	No change
CIVL4201 – Geotechnical and Geoenvironmental Engineering (10 units)	CIVL4201 – Geotechnical and Geoenvironmental Engineering (10 units)	No change
CIVL4450 – Water Engineering (10 units)	CIVL4450 – Water Engineering (10 units)	No change
	<b>Work Integrated Learning Placement</b> ENGG3000 – Engineering Work Integrated Learning (10 units).	<b>New core course available from 2024</b> Pre-2023 students do not complete ENGG3000 due to the 12 weeks of Industrial Experience already included in the pre-2023 program.
<b>Industrial Experience (12 weeks)</b>	<b>Industrial Experience (8 weeks)</b>	
Pre-2023 students will need to complete 12 weeks of Industrial Experience to meet the accreditation requirements of their program.	2023 commencing students will need to complete 8 weeks of Industrial Experience in addition to 4 weeks as part of ENGG3000 (12 weeks in total), to meet the accreditation requirements of their program.	The Industrial Experience requirement has reduced from 12 to 8 weeks for 2023 commencing students, due to the inclusion of 4 weeks as part of ENGG3000. The total amount of Industrial Experience remains at 12 weeks for both programs.
<b>Design Core Courses (20 Units)</b> Complete 20 units from the following courses.	<b>Design Core Courses (10 Units)</b> Complete 10 units from the following courses.	Design Core Courses reduced from 20 units to 10 units
CIVL4521 – Structural Engineering Project (10 units)	CIVL4521 – Structural Engineering Project (10 units)	No change
CIVL4541 – Water Engineering Project (10 units)	CIVL4541 – Water Engineering Project (10 units)	No change
CIVL4571 – Geotechnical Engineering Project (10 units)	CIVL4571 – Geotechnical Engineering Project (10 units)	No change

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2022 Program Requirements [40082]	2023 Program Requirements [40356]	Notes
<b>Project Core Courses (10 Units)</b> Complete 10 units from the following project courses.	<b>Project Core Courses (10 Units)</b> Complete 10 units from the following project courses.	
CIVL4640 – Project S1 (10 units)	CIVL4640 – Project S1 (10 units)	No change
CIVL4660 – Project S2 (10 units)	CIVL4660 – Project S2 (10 units)	No change
<b>Business Majors</b> Complete 60-70 units of major courses depending on major chosen. If a 60 unit major is chosen, complete 10 units of elective courses to make up the total program unit requirements	<b>Business Majors</b> Complete 70 units of major courses.	
<b>Leadership &amp; Management Major (60 Units)</b>	<b>Leadership &amp; Management Major (70 Units)</b>	The number of courses has <b>increased</b> from 60 to 70 units.
<b>Compulsory Courses (30 Units)</b> Complete the following compulsory courses to fulfil the requirements of this major.	<b>Compulsory Courses (30 Units)</b> Complete the following compulsory courses to fulfil the requirements of this major.	
MNGT2005 – Leadership and Ethics (10 units)	MNGT2005 – Leadership and Ethics (10 units)	No change
MNGT3011 – Leading Organisational Change (10 units)	MNGT3011 – Leading Organisational Change (10 units)	No change
MNGT3012 – Strategic Business Management (10 units)	MNGT3012 – Strategic Business Management (10 units)	No change
<b>1000 Level Directed Courses (10 Units)</b> Complete 10 units from the following directed courses (recommended course - MNGT1002 Introduction to Entrepreneurship and Innovation).	<b>Directed Courses (40 Units)</b> Complete 40 units from the following directed courses (with a minimum of 10 units at the 2000 level and a minimum of 20 units at the 3000 level).	2023 directed courses offer greater choice and flexibility. There is no longer a minimum requirement at the 1000 level.
IBUS1000 – Managing International Business Risk (10 units)	IBUS1000 – Managing International Business Risk (10 units)	No change
IRHR1002 – Dynamics of People and Work in Organisations (10 units)	IRHR1002 – Dynamics of People and Work in Organisations (10 units)	No change
LEIS1000 – Leisure Behaviour and Organisation (10 units)	LEIS1000 – Leisure Behaviour and Organisation (10 units)	No change
MNGT1002 – Introduction to Entrepreneurship and Innovation (10 units)	MNGT1002 – Introduction to Entrepreneurship and Innovation (10 units)	No change

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2022 Program Requirements [40082]	2023 Program Requirements [40356]	Notes
POLI1010 – Australian Politics and Government (10 units)	POLI1010 – Australian Politics and Government (10 units)	No change
<b>2000 Level Directed Courses (10 Units)</b> Complete 10 units from the following directed courses.		
MNGT2002 – Business Venturing (10 units)	MNGT2002 – Business Venturing (10 units)	No change
MNGT2006 – Decision Making under Uncertainty (10 units)	MNGT2006 – Decision Making under Uncertainty (10 units)	No change
	IRHR2270 – Introduction to Human Resource Management (10 units)	<b>Added</b> to directed course list.
<b>3000 Level Directed Courses (20 Units)</b> Complete 20 units from the following directed courses.		From 2023 BUSN3002 and BUSN3500 are no longer part of this major. Pre-2023 students who have already successfully completed BUSN3002 and/or BUSN3500 can count these courses toward this major.
	IRHR3035 – Managing Diversity (10 units)	<b>Added</b> to directed course list.
	IRHR3040 – Negotiation and Advocacy (10 units)	<b>Added</b> to directed course list.
	IRHR3510 – Human Resource Development (10 units)	<b>Added</b> to directed course list.
BUSN3001 – Project in Business (10 units)	BUSN3001 – Project in Business (10 units)	No change
BUSN3002 – Industry Placement (10 units)		<b>Removed</b> from directed course list. <b>Replaced</b> in the 2023 program by Work Integrated Learning Placement core course ENGG3000 – Engineering Work Integrated Learning.
BUSN3500 – International Work Placement in Business (10 units)		<b>Removed</b> from directed course list.
MNGT3002 – Knowledge Management (10 units)	MNGT3002 – Knowledge Management (10 units)	No change
MNGT3008 – Advanced Innovation Management (10 units)	MNGT3008 – Advanced Innovation Management (10 units)	No change

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2022 Program Requirements [40082]	2023 Program Requirements [40356]	Notes
MNGT3009 – Business Development and Growth (10 units)	MNGT3009 – Business Development and Growth (10 units)	No change
<b>Entrepreneurship and Innovation Major (70 Units)</b>		
<b>Compulsory Courses (40 Units)</b> Complete the following compulsory courses to fulfil the requirements of this major.	<b>Compulsory Courses (40 Units)</b> Complete the following compulsory courses to fulfil the requirements of this major.	
MNGT1002 – Introduction to Entrepreneurship and Innovation (10 units)	MNGT1002 – Introduction to Entrepreneurship and Innovation (10 units)	No change
MNGT2002 – Business Venturing (10 units)	MNGT2002 – Business Venturing (10 units)	No change
MNGT2007 – Ideation in Enterprise (10 units)	MNGT2007 – Ideation in Enterprise (10 units)	No change
MNGT3016 – Innovation and Entrepreneurial Strategy (10 units)	MNGT3016 – Innovation and Entrepreneurial Strategy (10 units)	No change
<b>2000 Level Directed Courses (10 Units)</b> Complete 10 units from the following directed courses.	<b>2000 Level Directed Courses (10 Units)</b> Complete 10 units from the following directed courses.	
MNGT2004 – Managing Innovation (10 units)	MNGT2004 – Managing Innovation (10 units)	No change
MNGT2006 – Decision Making under Uncertainty (10 units)	MNGT2006 – Decision Making under Uncertainty (10 units)	No change
<b>3000 Level Directed Courses (20 Units)</b> Complete 20 units from the following directed courses.	<b>3000 Level Directed Courses (20 Units)</b> Complete 20 units from the following directed courses.	From 2023 BUSN3002 is no longer part of this major. Pre-2023 students who have already successfully completed BUSN3002 can count this course toward this major.
BUSN3002 – Industry Placement (10 units)		<b>Removed</b> from directed course list.
MNGT3002 – Knowledge Management (10 units)	MNGT3002 – Knowledge Management (10 units)	No change
MNGT3007 – Social Entrepreneurship (10 units)	MNGT3007 – Social Entrepreneurship (10 units)	No change
MNGT3008 – Advanced Innovation Management (10 units)	MNGT3008 – Advanced Innovation Management (10 units)	No change

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2022 Program Requirements [40082]	2023 Program Requirements [40356]	Notes
MNGT3009 – Business Development Growth (10 units)	MNGT3009 – Business Development Growth (10 units)	No change
<p><b>Electives (0-10 Units)</b> Complete 0 or 10 units of electives, depending on Major studied to fulfil the requirements of this program. Electives can be used to extend and complement your core studies with more courses in the same field of study, or from areas that might be of interest to you. Electives can be chosen from all courses available at the University that do not have any other conditions (such as a course requisite) applied to them.</p>		Elective courses no longer required as the Leadership and Management major has <b>increased</b> from 60 to 70 units.

If you have any questions regarding your remaining program, please email [ProgramAdvice@newcastle.edu.au](mailto:ProgramAdvice@newcastle.edu.au).