Bachelor of Engineering (Honours) (Civil) (pre 2017)

See the last page for some helpful hints & tips!

THE UNIVERSITY OF NEWCASTLE AUSTRALIA

Commenced in Semester 1, 2015 and 2016 **Studying at Callaghan**

This Program Plan is an enrolment guide to ensure you are on track to graduate. The courses in coloured boxes have changed for your program. Further details on the teach-out arrangements can be found in your program handbook. If at any time you wish to vary from this program plan seek prior advice from your Academic Program Advisor to ensure you remain on track.

	Semester 1				Semester 2			
Year 1	ENGG1500 Introduction to Professional Engineering Replaces GENG1803	MATH1110 Mathematics for Engineering, Science and Technology 1 ***Replaces** option of MATH1110 **OR** MATH1210*	PHYS1205 Fundamentals of Engineering Physics *OR* PHYS1210** Advanced Physics I	SURV1200 Introduction to Surveying Replaces SURV1110	MATH1120 Mathematics for Engineering, Science and Technology 2 ***Replaces** option of MATH1210 **OR** MATH1220*	CIVL1100 Fundamentals of Engineering Mechanics Replaces GENG1001	ENGG1003 Introduction to Procedural Programming *Replaces* GENG1002 pre-2017, ENGG1002 pre-2021 *In 2021 changed from Sem 2 to Sem 1*	CIVL2240 Civil Engineering Materials
Year 2	CIVL2130 Theory of Structures 1	CIVL2050 Engineering Computations and Probability	SURV2210 Engineering Surveying Replaces SURV1120	ELECTIVE	ENGG2300 Engineering Fluid Mechanics **Replaces CIVL2310**	MATH2310 Calculus of Science and Engineering	CIVL2720 Transportation Engineering and Design *In 2021 changed from Sem 2 to Sem 1*	CIVL2280 Geomechanics 1
Year 3	CIVL3170 Steel Design	CIVL3180 Theory of Structures 2	CIVL3280 Geomechanics 2	CIVL3330 Hydrology **Replaces CIVL4330**	CIVL3160 Reinforced Concrete Design	CIVL4450 Water Engineering	CIVL3840 Advanced Analysis for Design Replaces CIVL4830	ENGG4500 Engineering Complexity Replaces PHIL3910
Year 4	CIVL4110 Advanced Structural Analysis	CIVL4201 Geotechnical and Geoenvironmental Engineering	ELECTIVE	ENGG3500 Managing Engineering Projects Replaces GENG3830	CIVL4521 ^ Structural Engineering Project	CIVL4541 Water Engineering Project	CIVL4571 Geotechnical Engineering Project	CIVL4660 # Project S2

Program Plan Key: = Core = Elective = Changes from 2017 onwards = Changes from 2018 onwards = Changes from 2019 onwards

To be eligible to graduate make sure you have completed 320 units (10 units = 1 course unless otherwise specified) which meet the following criteria:

- ✓ Core courses – 300 units.

  Prior to 2021, students choose to complete either MATH1110 and MATH1120, ***OR*** MATH1210 and MATH1220. Choice of maths courses is based on your assumed knowledge. To find out which MATH course you should enrol in please see the Enrolling in Maths information. More information in your Program Handbook.

  After 2021, the option to do MATH1210 and MATH1220 has been removed from the program. ***From 2021 onwards***: 1) if you have not yet completed MATH1210 you must complete MATH1110; and 2) if you haven't completed MATH1220 then you must complete MATH1120.

  ** PHYS courses. PHYS1210 can only be undertaken with Program Convenor approval.

  # Students may choose either CIVL4640 Project S1 **OR** CIVL4660 Project S2, whichever best fits their program. Students may also choose to utilise an elective course to complete both Project S1 and Project S2. This option is subject to supervision availability Please contact your Program Convenor if you wish to discuss this option.

  ^ CIVL4521 will be offered in both Semester 1 and Semester 2 in 2020. It will be offered in Semester 1, 2020 for the final time to assist those graduating in 2020. From 2021, this course will be offered in Semester 2 only.

- ✓ Elective courses – 20 units. Visit the Course Handbook to see a list of available Electives.
- ✓ The duration of this program is 4 years full time (40 units per semester) or part time equivalent.
- ✓ The maximum time to complete this program is 10 years.
- ✓ It is also a requirement that students complete a total of 12 weeks of industrial experience.
- ✓ Please note that courses marked in coloured boxes are changing for your program.

Some courses have assumed knowledge and/or requisites, please refer to the individual Course Handbook.

The Program Handbook has valuable information on program structure and requirements, if you are intending on studying part time or varying from this program plan please seek prior advice from your Academic Program Advisor.