

# BE (Hons) / Bxxx - Dual degree

Study plan example A - Civil Engineering major and dual degree

EAIT faculty home: [www.eait.uq.edu.au](http://www.eait.uq.edu.au)

CIVIL home: [www.civil.uq.edu.au](http://www.civil.uq.edu.au)

Part A - Compulsory #46 <sup>^</sup>					Part B1 - Introductory Electives					Part B0 - Preparatory Electives					
March Semester	1	Engineering design ENGG1100	Engineering mechanics: Statics and Dynamics ENGG1400 March or July Semester	Calculus & Linear algebra 1 MATH1051 March or July Semester	Dual Program Course	March Semester	Earth processes and geological materials for engineers ERTH1501	Introduction to mining MINE2105	Mining geomechanics MINE3121	Building construction management & economics REDE1300	Chemistry 1 CHEM1100 March or July Semester	Calculus & linear algebra II MATH2000/2001 March or July Semester	Mathematical foundations MATH1050 March or July Semester	Introductory chemistry CHEM1090	Physical basis of biological systems PHYS1171 March or July Semester
July Semester	2	Engineering modelling and problem solving ENGG1200	BE Elective	Multivariate calculus & ODE's MATH1052 March or July Semester	Dual Program Course	July Semester	Engineering thermomechanics ENGG1500 March or July Semester	Introduction to electrical systems ENGG1300 March or July Semester	Introduction to research - The big issues ENGG1600	Electromagnetism & modern physics PHYS1002 March or July Semester	Introduction to software engineering 1 CSSE1001 March or July Semester				
March Semester	3	Dual Program Course	Probability statistics and scientific computing CIVL2530	Environmental Issues and Sustainability in Engineering CIVL2135	Dual Program Course										
July Semester	4	Dual Program Course	Fluid mechanics for civil & environmental engineers CIVL2131	Dual Program Course	Fundamentals of soil mechanics CIVL2210										
March Semester	5	Structural mechanics CIVL2330	Dual Program Course	Dual Program Course	Traffic flow theory and analysis CIVL2410										
July Semester	6	Introduction to structural design CIVL2340	Dual Program Course	Reinforced concrete structures & concrete tech. CIVL2360	Catchment hydrology CIVL3141	<b>Part B2 - Advanced electives</b>									
March Semester	7	Structural analysis CIVL3340	Catchment Hydraulics: Open Channel Flow & Design CIVL3140	Dual Program Course	Geotechnical engineering CIVL3210										
July Semester	8	Structural design CIVL3350	Transportation systems engineering CIVL3420	Dual Program Course	Introduction to project management CIVL3510 <sup>o</sup>	March Semester	Project CIVL4560 March or July semester		Advanced transport engineering CIVL4411	Highway geometric design CIVL4460	Modelling of environmental systems CIVL3150	Industrial wastewater and solid waste management CHEE4012	Coastal and estuarine processes CIVL4110 <sup>o</sup> ODD	Adv. open channel flow and hydraulic structures CIVL4120 <sup>o</sup> EVEN	
March Semester	9	Civil design 1 CIVL4514	Prof. practice & the business environment ENGG4900 March or July Semester	Dual Program Course	Dual Program Course	March Semester	Research thesis CIVL4580 <sup>o</sup> #4 units over 2 semesters	Wind Engineering CIVL4340	Advanced concrete design CIVL4333		Groundwater & surface flow modelling CIVL4140	Environmental Risk Assessment and Management CIVL4170	Sustainable built environment CIVL4180	Mine waste management and landform design MINE4000	Geotechnical investigating and testing CIVL4270
July Semester	10	Civil design 3 CIVL4516	Civil Engineering Part B2 Elective	Dual Program Course	Dual Program Course	July Semester	Research thesis CIVL4582 <sup>o</sup> #4 units over 2 semesters	Anal. methods for the design of construction Op. CIVL4522	Advanced structural analysis CIVL4332	Design of timber structures CIVL4334				Advanced soil mechanics CIVL4230	Advanced rock mechanics CIVL4280
March Semester	11	Dual Program Course	Civil Engineering Part B2 Elective	Dual Program Course	Dual Program Course										

<sup>o</sup> Course offered in ODD years only.

<sup>e</sup> Course offered in EVEN years only.

<sup>%</sup> Two semester course (#4 units). CIVL4580 if starting in March semester OR CIVL4582 if starting in July semester

<sup>\$</sup> CIVL3510 may be done in semester 10 to allow completion of CIVL4110 or CIVL4120

<sup>^</sup> Example study plan is for #52 BE / #36 B dual programs. Other dual degree programs require more BE courses than shown.

<sup>#</sup> CIVL4250 is not offered in 2018