BE (Hons) Construction Engineering (AK3751)

Study Plan 2025

This (old structure) Study Plan applies only to students who began the BE Hons programme prior to 2024.

Notes:

- Once you have made your selections, go to My AUT to complete your enrolment.
- S1 = Semester 1, S2 = Semester 2, SS = Summer School
- Prerequisite courses are shown in brackets after each course. **Please ensure you have completed all necessary prerequisite courses before you enrol in a course.**
- For enrolment queries or issues, please email your Academic Administrator (e: *engineer@aut.ac.nz*).
- **Course level** is the first digit of the numeric part of the alphanumerical code (E.g., ENGE500 is a level 5 course).

YEAR 1 (for students who commenced BE Hons studies prior to 2024)		
ENGE500	Introduction to Sustainable Engineering Design	S1
ENGE501	Engineering Mathematics I	S1
ENME502	Engineering Materials I	S2
ENSE504	Introduction to Computing	*Discontinued* Enrol in **COMP500 Programming Concepts and Techniques** (S1, S2, SS) instead if repeat is required
ENEL515	Electrical Principles A	*Discontinued* ▪ If failed ENEL515 or ENEL516, take **ENGE504 Electrical Engineering Fundamentals** (S1 or S2) ▪ If failed both ENEL515 and ENEL516, take ENGE504 (S1) and **ENEL500 Analogue Devices and Systems** (S2)
ENEL516	Electrical Principles B	
ENME510	Mechanical Principles A	*Discontinued* ▪ If failed ENME510 or ENME511, take **ENGE503 Engineering Mechanics** (S1) ▪ If failed both ENME510 and ENME511, take ENGE503 (S1) and **ENME500 Introduction to Thermofluids and Energy** (S2)
ENME511	Mechanical Principles B	

YEAR 2		
ENGE601	Engineering Mathematics II (ENGE501)	S1
ENBU600	Construction Materials (ENME502)	S1
ENBU603	Introduction to Building Construction	S1
ENME609	Solid Mechanics I	*Discontinued* Enrol in **ENBU613 Mechanics of Construction Materials** (S1) if repeat is required (ENGE501, ENME502, ENME510)
ENBU601	Introduction to Structural Engineering (ENME609)	S2
ENBU602	Quantity Surveying	S2
ENBU604	Construction Engineering Management I	*Discontinued* Enrol in **ENGE600 Engineering Management I** (S2) if repeat is required
ENME602	Engineering Design Methodology	*Discontinued* Enrol in **ENME603 Fluid Mechanics** (S2) if repeat is required (ENGE503, ENGE601)

YEAR 3 (students must have completed all Year 1 courses)					
ENBU700	Architectural Design and Sustainability (ENBU600, ENBU603)	S1	ENBU705	Concrete Structures (ENBU601)	S2
ENBU701	Geotechnical Engineering	S1	ENBU706	Steel Structures (ENBU601)	S2
ENBU702	Structural Analysis (ENBU601, ENGE601)	S1	ENBU708	Construction Engineering Management II (ENBU604)	S2
ENBU707	Construction Planning	S1	ENGE702	Engineering Mathematics III (ENGE601)	S2

YEAR 4 (students must have completed all Year 1 and Year 2 courses)					
ENBU893	Industrial Project Part A (ENBU700, ENBU705, ENBU707, ENBU708)	S1 or S2	ENBU894	Industrial Project Part B (ENBU893)	S1 or S2
ENBU800	Structural Engineering Design (ENBU702)	S1	ENBU801	Structural Dynamics (ENBU702)	S2
ENBU805	Foundation Engineering (ENBU701)	S1	General Elective	any level 5 to 8 course offered within the university	S2
ENBU806	Off-Site Construction (ENBU603)	S1	*Plus, one of the following courses:*		
			ENBU807	Construction Equipment and Utilisation	S2
			ENBU808	Construction Technology (ENBU707)	S2

Plus: completion of **ENGE888 Engineering Work Experience** (enrol in either S1 or S2)

- No fees or credits are attached to this course
- Must be completed in order to graduate
- Request for approval from Work Experience Coordinator (dat.doan@aut.ac.nz) prior to commencement of work
- Complete 800 hours of work
- Submit a 4500 - 5000 word report through Canvas (email engineer@aut.ac.nz when you are ready to submit the report so you can be enrolled or if you have any questions)