

Master of Engineering (Civil)

Mapping to Course Learning Outcomes

Listed below is the award's Program of Study and significant sequences/alternatives. Electives, including 4th year electives, are generally not listed as students cannot be guaranteed to take specific topics. The "Worst Case" row indicates the pathological worst case in terms of sequences and electives.

		COURSE LEARNING OUTCOMES												
BLOOM'S REVISED TAXONOMY R = Remembering (Knowledge) U = Understanding (Comprehension) A = Applying N = Analysing E = Evaluating C = Creating (Synthesis) Year		A. competently use professional skills and knowledge in the systematic development of complex civil engineering systems	B. demonstrate a deeper understanding of some areas of civil engineering	C. apply their skills and knowledge in a professionally responsible manner	D. communicate effectively with other engineers and the wider global community using a wide range of communication technologies	E. work professionally as an individual and in a team	F. understand and describe the processes through which current knowledge was developed	G. develop engineering solutions appropriate to the social, political, international, economic and environmental contexts in which they are applied	H. engage in the process of continuing learning needed to retain the necessary level of professional skills and knowledge in the area of civil engineering	I. demonstrate knowledge of the research process, and be able to conduct research in engineering	K. contribute successfully to project management	K. plan and execute a research project, applying relevant methodologies and knowledge	L. apply skills adopted through the thesis and advanced discipline topics to postgraduate level research or advanced industrial investigation.	
Masters														
ENGR8861 Structural Engineering 2 GE (4.5 units)	Core	RUA	RUAN				RUN	RUA		RUN			RUAN	
ENGR8922 Civil Engineering Design GE (4.5 units)	Core	RUAC		RUA	RUA		RU	RUANEC	RUA	RUA			RUANEC	
ENGR8931 Geotechnical Engineering GE (4.5 units)	Core	RUA	RUA		RUN		RUN		RUA	RUAN			RUN	
ENGR8951 Hydraulics and Water Engineering GE (4.5 units)	Core	RUA	RU				RUNE	RU		RUN			RUN	
ENGR8971 Transport Systems Engineering GE (4.5 units)	Core	R	RUA		RUNE		RUN		RUN	RUNE	RU	RU	RUN	
ENGR9704 Engineering Management (4.5 units)	Core			RUA	RUAC	RUA	RUA		RUAN	RUANC	RU	RU	RUA	
ENGR9742 Systems Engineering (4.5 units)	Core			RUAN	RUAN	RUA	RUANE	RUAN	RUA	RUAN	RUN	RUAN	RUN	
ENGR7951 Advanced Infrastructure Design: Transport and Structural I	Core	RUNE			RUA	RU	RUN		RU	RUAN			RUN	
ENGR7872 Advanced Infrastructure Design: Geotechnical and Water I	Core	RUNE			RUA	RU	RUN		RU	RUAN			RUN	
ENGR9700 Masters Thesis (18 units)	Thesis	RUAN	RUN	RUNE	RUAC	RUAC	RUNE	RUNE	RUAC	RUANEC	RUAC	RUANEC	RUNE	
ENGR9710 Masters Project (9 units)	Thesis	RUAN	RUN	RUN	RUAC	RUAC	RUAC	RUN	RUAC	RUANC	RUN	RUN	RUAC	
ENGR3750 Workplace Preparation (0 units)	WorkExp			RU	RU	RUA			RUA	RU				
ENGR9405 Engineering Work Experience (4.5 units)	WorkExp			RUANC		RUAN	RUNE	RUAC		RUN	RUN	RUANC		
Count of Topics for which PE satisfied														
	Core	7	4	3	7	4	9	4	7	9	3	3	9	
	Thesis	2	2	2	2	2	2	2	2	2	2	2	2	
	Project	0	0	0	0	0	0	0	0	0	0	0	0	
	WorkExp	0	0	2	1	2	1	1	1	2	1	1	0	
	Worst Case Coverage	7 RUANEC	4 RUAN	5 RUANEC	8 RUANEC	6 RUANC	10 RUANEC	5 RUANEC	8 RUANC	11 RUANEC	4 RUANC	4 RUANEC	9 RUANEC	