

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.

BLOOM'S REVISED TAXONOMY R = Remembering (Knowledge) U = Understanding (Comprehension) A = Applying N = Analysing E = Evaluating C = Creating (Synthesis)			Sequence	COURSE LEARNING OUTCOMES										
				A. proficiently use professional skills and knowledge in the systematic development of complex electronic and security engineering systems	B. demonstrate a broad understanding of the electronic and security engineering discipline and a deeper understanding of some areas of electronic and security 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 electronic and security engineering	I. plan and execute a research project, applying relevant methodologies and knowledge		
1	ENGR1201 Electronics (4.5 units)	Core	RUA	RUA					R					
1	ENGR1401 Professional Skills (4.5 units)	Core	RUA		RUN	RUNE	RUANE		RUA	RU		RUA		RUA
1	ENGR1721 Engineering Programming (4.5 units)	Core	RUA	RUA										
1	MATH1121 Mathematics 1A (4.5 units)	Core	RUN		RUA					RUA				RUA
1	MATH1701 Mathematics Fundamentals A (4.5 units)	Core	RUA			RUA	RUA					RUA		
1	MATH1702 Mathematics Fundamentals B (4.5 units)	Core	RUA			RUA	RUA					RUA		
1	ENGR1722 Engineering Physics and Materials (4.5 units)	EngPhys	RUA	RUAN										
1	ENGR1732 Engineering Mechanics (4.5 units)	EngPhys	RUA	RUAN										
1	PHYS1101 Fundamental Physics 1 (4.5 units)	TradPhys		RUA		RUA	RUA							
1	PHYS1102 Fundamental Physics 2 (4.5 units)	TradPhys	RUA	RUNE		RUA			RU	RU				
2	COMP2711 Computer Programming 2 (4.5 units)	Core	RUAN	RUAN										
2	COMP2712 Heuristic Optimisation (4.5 units)	Core	RUAN		RUN									
2	ENGR1711 Engineering Design (4.5 units)	Core	RUA		RUN									
2	ENGR2702 Electrical Circuits and Machines (4.5 units)	Core	RUA	RUA		RUA	RUA					RUA		RUNE
2	ENGR2711 Engineering Mathematics (4.5 units)	Core	RUA									RUA		
2	ENGR2722 Analysis of Engineering Systems (4.5 units)	Core	RUA	RU										
2	ENGR2731 Electronic Circuits (4.5 units)	Core	RUANC	RUAC			RUNE					RUNE		
2	MATH1122 Mathematics 1B (4.5 units)	Core	RUAN		RUAC				RU	RUAC				RUAC
2	ENGR2705 Working in Secure and Sensitive Professions (0 units)	Core			RU	RU			RU			RU		
3	ENGR2861 Electromagnetics and Electromagnetic Waves (4.5 units)	Core	RUA	RUA										
3	ENGR3704 Project Management for Engineering and Science (4.5 units)	Core			RUA	RUAC	RUA	RU				RUAN		RU
3	ENGR3750 Workplace Preparation (0 units)	Core			RU	RU	RUA					RUA		
3	ENGR3891 Electromagnetic Technologies, Systems and Security (4.5 units)	Core	RUAN	RUAN					RU					
3	ENGR7710 Engineering Project (9 units)	Core	RUNE			RUAC	RUA	RUANEC	RUANEC	RUANEC	RUA			RUANEC
3	ENGR7782 Systems and Security in the Information Age (4.5 units)	Core	RUAC	RUAC	RU		RUNE							
3	ENGR9405 Engineering Work Experience (4.5 units)	Core			RUANC		RUAN	RUNE	RUAC					RUANC
3	ENGR3721 Signal Processing (4.5 units)	Elective1	RUA	RUA					RUA					
3	ENGR3731 Communication Systems (4.5 units)	Elective2	RUAN	RUAN										
Count of Topics for which PE satisfied			18	9	10	8	10	9	6	10	7			
			2	2	0	0	0	0	0	0	0			
			1	2	0	2	1	1	1	0	0			
			1	1	0	0	0	0	1	0	0			
			1	1	0	0	0	0	0	0	0			
Worst Case Coverage			20 RUANEC	12 RUANEC	10 RUANC	8 RUANEC	10 RUANE	9 RUANEC	6 RUANEC	10 RUANE	7 RUANEC			