

## B.Eng (Hons) Double Major (Industrial Computer Systems Engineering and Instrumentation and Control Engineering)

For students commencing in Semester 2 2020 at the South Street, Murdoch Campus

This sample study plan is based on the 2019 course structure and offerings. It is the responsibility of students to ensure the correct availability of units in each semester of each academic year.

		Semester 1	Semester 2	
Year 1			<b>ENG109 Engineering Computing Systems</b> <span style="float: right;">3pts</span> <b>MAS164 Fundamentals of Mathematics</b> <span style="float: right;">3pts</span> <b>BEN100 Transitioning into Engineering</b> <span style="float: right;">3pts</span> <b>PEN120 General Physics</b> <span style="float: right;">3pts</span>	
				12pts
Year 2		<b>BEN150 Design Concepts in Engineering</b> <span style="float: right;">3pts</span>	<b>ENG192 Energy, Mass Flow</b> <span style="float: right;">3pts</span>	
		<b>MAS182 Applied Mathematics</b> <span style="float: right;">3pts</span>	<b>ENG207 Principles of Electronic Instrumentation</b> <span style="float: right;">3pts</span>	
		<b>ENG225 Circuits and Systems I</b> <span style="float: right;">3pts</span>	<b>MAS161 Calculus and Matrix Algebra</b> <span style="float: right;">3pts</span>	
			<b>ENG297 Circuits and Systems II</b> <span style="float: right;">3pts</span>	
		9pts		12pts
Summer: <b>ENG294 Discrete Time Systems</b>				3pts
Year 3		<b>ENG299 Control Systems and Process Dynamics</b> <span style="float: right;">3pts</span>	<b>ENG336 Engineering Finance and Law</b> <span style="float: right;">3pts</span>	
		<b>BEN300 Innovation and Ethics in Engineering</b> <span style="float: right;">3pts</span>	<b>ENG319 Real Time and Embedded Systems</b> <span style="float: right;">3pts</span>	
		<b>ENG298 Principles of Process Engineering</b> <span style="float: right;">3pts</span>	<b>ENG321 Instrument and Communication System</b> <span style="float: right;">3pts</span>	
		<b>MAS220 Mathematical Methods</b> <span style="float: right;">3pts</span>	<b>ENG322 Process Control Engineering II</b> <span style="float: right;">3pts</span>	
				12pts
Year 4		<b>ENG311 PLC Systems</b> <span style="float: right;">3pts</span>	<b>ENG447 Industrial Computer Systems Design</b> <span style="float: right;">3pts</span>	
		<b>ENG308 Advanced Process and Instrumentation Engineering</b> <span style="float: right;">3pts</span>	<b>ENG446 Process Control and Safety Systems</b> <span style="float: right;">3pts</span>	
		<b>ENG309 Process Control Engineering I</b> <span style="float: right;">3pts</span>	<b>ENG470 Honours Thesis (6pt)</b> <span style="float: right;">6pts</span>	
		<b>Engineering Elective</b> <span style="float: right;">3pts</span>		
				12pts
Year 5		<b>ENG449 Electrical Power Systems Design</b> <span style="float: right;">3pts</span>		
		<b>ENG445 Instrumentation and Control Systems Design</b> <span style="float: right;">3pts</span>		
		<b>ENG470 Honours Thesis (6pt)</b> <span style="float: right;">6pts</span>		
				12pts