

Bachelor of Engineering (Engineering Science Programme)

Recommended Semester Schedule for Poly-intake Students

For Cohort AY2022/2023 and AY2023/2024

(Assuming the Maths bridging course MA1301 is required)

Semester 1		Semester 2	
CS1010E Programming Methodology	4	GEA1000 Quantitative Reasoning	4
ESP1111 Engineering Principles In-Action	4	ESP2111 Sensor System Electronics	4
MA1301 Introductory Mathematics*	4	PF1101 Fundamentals of Project Management	4
PC1201 Fundamentals of Physics*	4	MA1508E Linear Algebra for Engineering	4
GE course / Unrestricted Elective	4	ESP2110 Design Project	4
Sub-total	20	Sub-total	20
Semester 3		Semester 4	
ES2631 Critique and Communication of Thinking and Design	4	EG2501 / CDE2501 Liveable Cities	4
IE2141 Systems Thinking and Dynamics	4	EE2211 Introduction to Machine Learning	4
ESP2107 Numerical Methods and Statistics	4	PC2130B Applied Quantum Physics	4
MA1511 Engineering Calculus	2	PC3235B Applied Solid State Physics	4
MA1512 Differential Equations for Engineering	2	EG2401A Engineering Professionalism	2
GE course / Unrestricted Elective	4	Choose <i>ONE</i>	
ME2121 Engineering Thermodynamics & Heat Transfer	4	* PC2020 Electromagnetics for Electrical Engineers	4
		* EE2023 Signals and Systems	
Sub-total	24	Sub-total	22
Semester 5		Semester 6	
ESP4901 Research Project	4	ESP4901 Research Project	4
ESP2106 Principles of Continua	4	CDE2000 Creating Narratives	4
ESP3903 Major Design Project	4	GE course / Unrestricted Elective	4
GE course / Unrestricted Elective	4	GE course / Unrestricted Elective	4
GE course / Unrestricted Elective	4	GE course / Unrestricted Elective	4
Sub-total	20	Sub-total	20

[GE course - General Education Pillar](#)

[*Bridging courses](#)

[Advanced Placement Credits & Exemptions for cohort AY2022/2023](#)

[Advanced Placement Credits & Exemptions for cohort AY2023/2024](#)

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Recommended Semester Schedule for Poly-intake Students

For Cohort AY2022/2023 and AY2023/2024

(Assuming the Maths bridging course MA1301 is NOT required)

Semester 1		Semester 2	
CS1010E Programming Methodology	4	GEA1000 Quantitative Reasoning	4
ESP1111 Engineering Principles In-Action	4	ESP2111 Sensor System Electronics	4
MA1511 Engineering Calculus	2	PF1101 Fundamentals of Project Management	4
MA1512 Differential Equations for Engineering	2	MA1508E Linear Algebra for Engineering	4
PC1201 Fundamentals of Physics*	4	ESP2110 Design Project 2	4
GE course / Unrestricted Elective	4		
Sub-total	20	Sub-total	20
Semester 3		Semester 4	
ES2631 Critique and Communication of Thinking and Design	4	EG2501 / CDE2501 Liveable Cities	4
IE2141 Systems Thinking and Dynamics	4	EE2211 Introduction to Machine Learning	4
ESP2107 Numerical Methods and Statistics	4	PC2130B Applied Quantum Physics	4
GE course / Unrestricted Elective	4	PC3235B Applied Solid State Physics	4
ME2121 Engineering Thermodynamics & Heat Transfer	4	EG2401A Engineering Professionalism	2
		Choose ONE	
		* PC2020 Electromagnetics for Electrical Engineers	4
		* EE2023 Signals and Systems	
Sub-total	20	Sub-total	22
Semester 5		Semester 6	
ESP4901 Research Project	4	ESP4901 Research Project	4
ESP2106 Principles of Continua	4	CDE2000 Creating Narratives	4
ESP3903 Major Design Project	4	GE course / Unrestricted Elective	4
GE course / Unrestricted Elective	4	GE course / Unrestricted Elective	4
GE course / Unrestricted Elective	4	GE course / Unrestricted Elective	4
Sub-total	20	Sub-total	20

[GE course - General Education Pillar](#)

[*Bridging course](#)

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[Advanced Placement Credits & Exemptions for cohort AY2023/2024](#)