

POSSIBLE SCHEDULE (3 YEARS) FOR STUDENTS WITH POLYTECHNIC DIPLOMA ADMITTED TO EE2 IN AY2024/25

For Polytechnic graduates who plan to complete in 3 years – For students not taken GESS

(As at 3 June 2025)

AY24/25, S1	AY24/25, S2	AY25/26, S1	AY25/26, S2	AY26/27, S1	AY26/27, S2
Schedule I	Schedule II	Schedule III	Schedule IV	Schedule V	Schedule VI
MA1301¹ <i>(UE 1) for those required to do, see Note 1 OR</i> MA1511 Engineering Calculus (2 units) + MA1512 Differential Equations for Eng (2 units)	MA1508E Linear Algebra for Engineers	MA1511 Engineering Calculus (2 units) + MA1512 Differential Equations for Eng (2 units) (For those not done)	Artificial Intelligence (EE2211 Introduction to Machine Learning Pre-Req: CS1010E, MA1511, MA1508E)	EE4002D / EE4002R Design / Research Capstone	EE4002D / EE4002R Design / Research Capstone
PC1201¹ Fundamentals of Physics (UE 2)	Data Literacy (GEA1000 Quantitative Reasoning)	Critique & Expression [ES2631 Critical Thinking & Writing Pre-Requisite: ES1103]	*CDE2501 Liveable Cities Singapore Studies (SS) (to fulfil SS pillar as not taken GESS)	TECHNICAL ELECTIVE	TECHNICAL ELECTIVE
Digital Literacy (CS1010E Programming Methodology)	Project Management (PF1101 / PF1101A Project Management and Finance)	*Technical Course 1 to fulfil Sustainable Futures (SF) pillar EE2028 Microcontroller Programming and Interfacing [Pre-Req: CS1010E + EE2111A]	EE2012 Analytical Methods in ECE [Pre-Req: MA1511 + MA1512]	*Technical Course 2 e.g. EE3xxx C / EE3033 [Pre-Req: EE2023, EE2026, EE2027] Can be used to fulfill Systems Thinking (ST) / Creating Narratives (CN) pillar	*Technical Course 3 e.g. EE3xxx C / EE3033 EE2141 / CDE2000 Can be used to fulfill Systems Thinking (ST) / Creating Narratives (CN) pillar
ES1103² OR GE Course 4	GE Course 5 or UE	EE2022 Electrical Energy Systems [Pre-Requisite: EE2111A]	EE2023 Signals & Systems [Pre- Requisite: MA1512]	SPN / TE / Minor / UE 3 or GENxxxx if you have not done.	SPN / TE / Minor / UE 4
EE1111A Electrical Engineering Principles & Practice I	EE2111A Electrical Engineering Principles & Practice II	EE2027 Electronics Circuits [Pre-Requisite: EE2111A]	PC2020 Electromagnetics for Electrical Engineers [Pre-Req: MA1511 + MA1512]	EG2401A (2units) Engineering Professionalism	SPN / TE / Minor / UE 5 (if taken ES1103, it can be used to fulfill UE 5)
			EE2026 Digital Design [Pre-Req: CS1010E + EE2111A]		
20 units	20 units	20 units	24 units	18 units	20 units

NOTE:

*AY2024/2025 Poly cohort must complete 8 additional units of technical courses (TC) due to curriculum change. Students may take the additional technical course in lieu of the Systems Thinking pillar, Creating Narratives pillar & Sustainable Futures pillar. CDE2501 will be read towards the Singapore Studies pillar (if you have not taken any GESS course). Refer to the [FAQ](#) for more details.

- MA1301 & PC1201 are taken as compulsory courses. Students not required to do MA1301 will take MA1511 & MA1512 in the first semester. **No extra exemptions will be given, students not required to do MA1301 must take another unrestricted elective (UE) to make up the 4units.**
- English courses (dependent on QET results): ES1103 is to be read by students who are in band 2. Students who obtain Band 1 will have to take ES1000 followed by ES1103. ES1103 can be used to fulfil UE requirement. Refer to <http://www.nus.edu.sg/registrar/academic-activities/registration/academic-related-matters/get> for more details.
- Poly Exemptions:** UE (20 units), Industrial Attachment (10 units), EG1311 Design and Make (4 units), DTK1234 Design Thinking (4 units). Total: 38units.
- Common Curriculum:** CDE common curriculum (see above yellow highlighted *changes, 3 technical courses can be taken in lieu of the 3 pillars) + **NUS General Education (denote by courses in blue, 24 units: CS1010E, ES2631, GEA1000, GEC, GEN & GESS (can be replaced by CDE2501 if not taken GESS), total 60 units.**
- GENxxxx: Can be taken earlier (to prevent delay in graduation) especially if you wish to take a year-long GEN course. Refer to [C&E Pillar website](#) for full details.
- Unrestricted Electives (UE):** **denote by courses in orange (courses can be used to fulfil SPN(Specialization)/ Technical electives(TE)/ 2nd major/ Minor, etc).** 20units exempted for Poly graduates, total: 40units. Students need to plan in advance to fulfil the pre-req of the courses for their SPN/TE/2nd Major/minor).
- Major Requirements: **Engineering Core (20units), denote by courses in purple, IA (10units) exempted for Poly graduates & EE Core/ Major, denote by courses in green (40units), total: 60units.**
- The above is just a Recommended Schedule. Students should check that they fulfil their graduation requirement using the [FFG Checklist](#) and may adjust their study plan accordingly.

POSSIBLE SCHEDULE (3.5 YEARS) FOR STUDENTS WITH POLYTECHNIC DIPLOMA ADMITTED TO EE2 IN AY2024/25

For Polytechnic graduates who plan to complete in 3 years – For students taken GESS

(As at 3 June 2025)

AY24/25, S1	AY24/25, S2	AY25/26, S1	AY25/26, S2	AY26/27, S1	AY26/27, S2
Schedule I	Schedule II	Schedule III	Schedule IV	Schedule V	Schedule VI
MA1301¹ <i>(UE 1) for those required to do, see Note 1</i> OR MA1511 Engineering Calculus (2 units) + MA1512 Differential Equations for Eng (2 units)	MA1508E Linear Algebra for Engineers	MA1511 Engineering Calculus (2 units) + MA1512 Differential Equations for Eng (2 units) (For those not done)	Artificial Intelligence (EE2211 Introduction to Machine Learning Pre-Req: CS1010E, MA1511, MA1508E)	EE4002D / EE4002R Design / Research Capstone	EE4002D / EE4002R Design / Research Capstone
PC1201¹ Fundamentals of Physics (UE 2)	Data Literacy (GEA1000 Quantitative Reasoning)	Critique & Expression [ES2631 Critical Thinking & Writing Pre-Requisite: ES1103]	*CDE2501 Liveable Cities Sustainable Futures (SF) (to fulfil SF pillar as taken GESS)	TECHNICAL ELECTIVE	TECHNICAL ELECTIVE
Digital Literacy (CS1010E Programming Methodology)	Project Management (PF1101 / PF1101A Project Management and Finance)	*Technical Course 1 to fulfill Systems Thinking (ST) pillar EE2028 Microcontroller Programming and Interfacing [Pre-Req: CS1010E + EE2111A]	EE2012 Analytical Methods in ECE [Pre-Req: MA1511 + MA1512]	*Technical Course 2 to fulfill Creating Narratives (CN) pillar e.g. EE3xxx C / EE3033 [Pre-Req: EE2023, EE2026, EE2027]	SPN / TE / Minor / UE 3
ES1103² OR GECxxxx	Singapore Studies GESSxxxx	EE2022 Electrical Energy Systems [Pre-Requisite: EE2111A]	EE2023 Signals & Systems [Pre- Requisite: MA1512]	Communities & Engagement GENxxxx (can be taken earlier)	SPN / TE / Minor / UE 4
EE1111A Electrical Engineering Principles & Practice I	EE2111A Electrical Engineering Principles & Practice II	EE2027 Electronics Circuits [Pre-Requisite: EE2111A]	PC2020 Electromagnetics for Electrical Engineers [Pre-Req: MA1511 + MA1512]	EG2401A (2units) Engineering Professionalism	SPN / TE / Minor / UE 5 (if taken ES1103, it can be used to fulfill UE 5) or GEC if you have not fulfilled
			EE2026 Digital Design [Pre-Req: CS1010E + EE2111A]		
20 units	20 units	20 units	24 units	18 units	20 units

NOTE:

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