POSSIBLE SCHEDULE (3 YEARS) FOR STUDENTS WITH POLYTECHNIC DIPLOMA ADMITTED TO EE2 IN AY2023/24

Polytechnic graduates may complete their graduation requirements in 3 years with their Polytechnic course exemptions (As at 3 June 2025)

AY23/24, S1	AY23/24, S2	AY24/25, S1	AY24/25, S2	AY25/26, S1	AY25/26, S2
Schedule I	Schedule II	Schedule III	Schedule IV	Schedule V	Schedule VI
MA1301[1] (UE 1) for those required to do, see Note 1 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
PC1201[1] Fundamentals of Physics (UE 2)	Data Literacy (GEA1000 Quantitative Reasoning)	Critique & Expression [ES2631 Critical Thinking & Writing Pre-Requisite: ES1103]	Creating Narratives [CDE2000] [Pre-Requisite: ES1103]	TECHNICAL ELECTIVE	TECHNICAL ELECTIVE
Digital Literacy (CS1010E Programming Methodology)	Project Management (PF1101 / PF1101A Project Management and Finance)	Systems Thinking (IE2141 Systems Thinking & Dynamics)	*SS Pillar (CDE2501 Liveable Cities) ← / *Sustainable Futures (CDE2501 Liveable Cities) ←	*Technical Course 1 / (If not passed GESS but done CDE2501, no need to take GESS, take TC1 in lieu of SF pillar. / *Technical Course 1 / (If passed GESS & CDE2501, take TC1 as UE3.	SPN / TE / Minor / UE 4
GE Course 4 or ES1103 [2]	GE Course 5 or SPN / TE / Minor / UEM	EE2022 Electrical Energy Systems [Pre-Requisite: EE2111A]	EE2012 Analytical Methods in ECE [Pre-Req: MA1511 + MA1512]	SPN / TE / Minor / UE 3 / GE Course 6 (depending on what yet to fulfil)	SPN / TE / Minor / UE 5
EE1111A Electrical Engineering Principles & Practice I	EE2111A Electrical Engineering Principles & Practice II	EE2027 Electronics Circuits [Pre-Requisite: EE2111A]	EE2023 Signals & Systems [Pre-Requisite: MA1512]	EG2401A (2units) Engineering Professionalism [Pre-Requisite: ES2631]	
		EE2026 Digital Design or EE2028 Microcontroller Programming and Interfacing	PC2020 Electromagnetics for Electrical Engineers [Pre-Req: MA1511 + MA1512]		
20 units	20 units	24 units	24 units	18 units	16 units

NOTE:

AY2023/2024 Poly cohort must complete 4 additional units of technical courses (TC) due to curriculum change. List of TC: (*EE2026 or *EE2028), EE3033 and extended core EE3xxxC courses (* when not taken to fulfil the Major Requirements). Technical courses may be taken in lieu of Systems Thinking, Creating Narratives and Sustainable Futures Pillars of the Common Curriculum. If you do not have sufficient space in these three pillars you will need to use your Unrestricted Electives to read the additional technical courses.

1. 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.**

2. 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/qet for more details.

3. Poly Exemptions: UE (20 units), Industrial Attachment (10 units), EG1311 Design and Make (4 units), DTK1234 Design Thinking (4 units). Total: 38units

4. Common Curriculum: CDE common curriculum (36units, denote by courses in grey, 8units exempted for Poly graduates) + NUS General Education (denote by courses in blue, 24units: CS1010E, ES2631, GEA1000 & 3 other GE courses; GESS, GEC, GEN course), total 60units.

5. 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.

6. 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.

7. 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 AY2023/24

Students who wish to take a slower pace may complete in 3.5 years

(As at 3 June 2025)

AY23/24, S1	AY23/24, S2	AY24/25, S1	AY24/25, S2	AY25/26, S1	AY25/26, S2	AY26/27, S1
Schedule I	Schedule II	Schedule III	Schedule IV	Schedule V	Schedule VI	Schedule VII
MA1301[1] (UE 1) *for those required to do, see Note 1* 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	**EG2401A** (2units) [Pre-Requisite: ES2631 Professionalism]	**EE4002D / EE4002R** Design / Research Capstone	**EE4002D / EE4002R** Design / Research Capstone
PC1201[1] Fundamentals of Physics (UE 2)	**Data Literacy** (GEA1000 Quantitative Reasoning)	**Critique & Expression** [ES2631 Critical Thinking & Writing Pre-Requisite: ES1103]	***SS Pillar** (CDE2501 Liveable Cities) / ***Sustainable Futures** (CDE2501 Liveable Cities)	***Technical Course 1 /** (If not passed GESS but done CDE2501, no need to take GESS, take **TC1** in lieu of SF pillar. / ***Technical Course 1 /** (If passed GESS & CDE2501, take **TC1** as UE3.	**TECHNICAL ELECTIVE**	**TECHNICAL ELECTIVE**
Digital Literacy (CS1010E Programming Methodology)	**Project Management** (PF1101 / PF1101A Project Management and Finance)	**Systems Thinking** (IE2141 Systems Thinking & Dynamics)	**Creating Narratives** [CDE2000] [Pre-Requisite: ES1103]	**EE2012** Analytical Methods in ECE [Pre-Req: MA1511 + MA1512]	SPN / TE / Minor / **UE 4**	SPN / TE / Minor / **UE 5**
GE Course 4 or **ES1103 [2]**	**GE Course 5** or SPN / TE / Minor / UE	**EE2026** Digital Design OR **EE2028** Microcontroller Programming and Interfacing	**PC2020** Electromagnetics for Electrical Engineers [Pre-Req: MA1511 + MA1512]	**EE2027** Electronics Circuits [Pre-Requisite: EE2111A]		
EE1111A Electrical Engineering Principles & Practice I	**EE2111A** Electrical Engineering Principles & Practice II	**EE2022** Electrical Energy Systems [Pre-Requisite: EE2111A]	**EE2023** Signals & Systems [Pre-Requisite: MA1512]	SPN / TE / Minor / **UE 3** / **GE Course 6** *(depending on what yet to fulfil)*		
20 units	**20 units**	**20 units**	**20 units**	**18 units**	**12 units**	**12 units**

NOTE:

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4. **Common Curriculum:** CDE common curriculum (36units, denote by courses in grey, 8units exempted for Poly graduates) + NUS General Education (denote by courses in blue, 24units: CS1010E, ES2631, GEA1000 & 3 other GE courses; GESS, GEC, GEN course), **total 60units.**

5. **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).

6. **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.

7. **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.**