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

For Polytechnic graduates who plan to complete in 3.5 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	AY27/28, 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) Engineering 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]	***CDE2501 Liveable Cities Singapore Studies (SS) (to fulfil SS pillar as not taken GESS)**	**EE2012 Analytical Methods in ECE** [Pre-Req: MA1511 + MA1512]	**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]	**EE2023 Signals & Systems** [Pre-Requisite: MA1512]	**EE2026 Digital Design** [Pre-Req: CS1010E + EE2111A]	***Technical Course 2 e.g. EE3xxxC / EE3033** [Pre-Req: EE2023, EE2026, EE2027] Can be used to fulfill Systems Thinking (ST) / Creating Narratives (CN) pillar	*** Technical Course 3 e.g. EE3xxxC / EE3033/ IE2141 / CDE2000** Can be used to fulfill Systems Thinking (ST) / Creating Narratives (CN) pillar]
GE Course 4 or **ES1103**[2]	**GE Course 5** or UE	**EE2022 Electrical Energy Systems** [Pre-Requisite: EE2111A]	**PC2020 Electromagnetics for Electrical Engineers** [Pre-Req: MA1511 + MA1512]	SPN / TE / Minor / **UE 3** or GENxxxx if you have not done.	SPN / TE / Minor / **UE 4**	SPN / TE / Minor / **UE 5 (if taken ES1103 , it can be used to fulfill UE 5)**
EE1111A Electrical Engineering Principles & Practice I	**EE2111A Electrical Engineering Principles & Practice II**	**EE2027 Electronics Circuits** [Pre-Requisite: EE2111A]				
20 units	**20 units**	**20 units**	**16 units**	**14 units**	**16 units**	**16 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.**

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 (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.
5. **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**
6. **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).
7. 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.
8. 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 3.5 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	AY27/28, 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) Engineering 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]	***CDE2501 Liveable Cities Sustainable Futures (SF)** (to fulfil SF pillar as taken GESS)	**EE2012 Analytical Methods in ECE** [Pre-Req: MA1511 + MA1512]	**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]	**EE2023 Signals & Systems** [Pre- Requisite: MA1512]	**EE2026 Digital Design** [Pre-Req: CS1010E + EE2111A]	***Technical Course 2 to fulfill Creating Narratives (CN) pillar e.g. EE3xxxC / EE3033** [Pre-Req: EE2023, EE2026, EE2027]	SPN / TE / Minor / **UE 4**
ES1103[2] OR **GECxxxx**	**Singapore Studies GESSxxxx**	**EE2022 Electrical Energy Systems** [Pre-Requisite: EE2111A]	**PC2020 Electromagnetics for Electrical Engineers** [Pre-Req: MA1511 + MA1512]	**Communities & Engagement GENxxxx** *(can be taken earlier)*	SPN / TE / Minor / **UE 3**	SPN / TE / Minor / **UE 5 (if taken ES1103 , it can be used to fulfill UE 5)**
EE1111A Electrical Engineering Principles & Practice I	**EE2111A Electrical Engineering Principles & Practice II**	**EE2027 Electronics Circuits** [Pre-Requisite: EE2111A]				
20 units	**20 units**	**20 units**	**16 units**	**14 units**	**16 units**	**16 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. Refer to the FAQ for more details.**

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 (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.**
5. **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**
6. **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).
7. 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.
8. 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.