

# POSSIBLE SCHEDULE FOR ECE AY2021 INTAKE POLY STUDENTS

## Possible Schedule (3 years) for Poly Students admitted to EE2 in Sem 1, AY2021/22

AY21/22, S1	AY21/22, S2	AY22/23, S1	AY22/23, S2	AY23/24, S1	AY23/24, S2
Schedule I	Schedule II	Schedule III	Schedule IV	Schedule VI	Schedule VII
<b>MA1301<sup>1</sup></b> <i>(UEM 1) for those required to do, see Note 1</i> OR <b>MA1511</b> Engineering Calculus (2 MCs) + <b>MA1512</b> Differential Equations for Eng (2 MCs)	<b>MA1512</b> Differential Equations for Eng (2 MCs) <i>(If not done)</i> and <b>MA1508E</b> Linear Algebra for Engineers	<b>MA1511</b> Engineering Calculus (2 MCs) <i>(If not done)</i>	Artificial Intelligence (EE2211 Introduction to Machine Learning Pre-Req: CS1010E, MA1511, MA1508E)	<b>EE4002D / EE4002R</b> Design / Research Capstone	<b>EE4002D / EE4002R</b> Design / Research Capstone
<b>PC1201<sup>1</sup></b> Fundamentals of Physics (UEM 2)	<b>Data Literacy</b> (GEA1000 Quantitative Reasoning)	<b>Critique &amp; Expression</b> [ES2631 Critical Thinking & Writing Pre-Requisite: ES1103]	<b>Sustainable Futures</b> (EG2501 Liveable Cities)	<b>TECHNICAL ELECTIVE</b>	<b>TECHNICAL ELECTIVE</b>
<b>Digital Literacy</b> (CS1010E Programming Methodology)	<b>Project Management</b> (PF1101 Fundamentals of Project Management)	<b>Systems Thinking</b> (IE2141 Systems Thinking & Dynamics)	<b>Creating Narratives</b> [CDE2000] [Pre-Requisite: ES1103]	<b>GE Module 6</b> or <b>SPN / TE / Minor / UEM</b>	<b>SPN / TE / Minor / UEM 4</b>
<b>GE Module 4</b> or <b>ES1103<sup>2</sup></b>	<b>GE Module 5</b> or <b>SPN / TE / Minor / UEM</b>	<b>EE2022</b> <b>Electrical Energy Systems</b> [Pre-Requisite: EE2111A]	<b>EE2012</b> <b>Analytical Methods in ECE</b> [Pre-Req: MA1511 + MA1512]	[EE2026 / EE2028 (if not taken, can be used to fulfil UEM)] / SPN / TE / Minor / <b>UEM 3</b>	<b>SPN / TE / Minor / UEM 5</b>
<b>EE1111A</b> <b>Electrical Engineering Principles &amp; Practice I</b>	<b>EE2111A</b> <b>Electrical Engineering Principles &amp; Practice II</b>	<b>EE2023</b> <b>Signals &amp; Systems</b> [Pre-Requisite: MA1512]	<b>EE2027</b> <b>Electronics Circuits</b> [Pre-Requisite: EE2111A]	<b>EG2401A (2MC)</b> Engineering Professionalism [Pre-Requisite: ES2531]	
		<b>EE2026</b> <b>Digital Design</b> or <b>EE2028</b> Microcontroller Programming and Interfacing	<b>PC2020</b> <b>Electromagnetics for Electrical Engineers</b> [Pre-Req: MA1511 + MA1512]		
<b>20 MCS</b>	<b>22 MCS</b>	<b>22 MCS</b>	<b>24 MCS</b>	<b>18 MCS</b>	<b>16 MCS</b>

**NOTE:**

1. MA1301 & PC1201 are taken as compulsory modules. 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 module (UEM) to make up the 4MCs.**
2. English Modules (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 UEM requirement. Refer to <http://www.nus.edu.sg/registrar/academic-activities/registration/academic-related-matters/qet> for more details.
3. **Poly Exemptions:** UEMs (20 MCs), Industrial Attachment (10 MCs), EG1311 Design and Make (4 MCs), DTK1234 Design Thinking (4 MCs). Total: 38MCs
4. **Common Curriculum:** CDE common curriculum (36MCs, denote by modules in grey, 8MCs exempted for Poly graduates) + **NUS General Education** (denote by modules in blue, 24MC: CS1010E, ES2631, GEA1000 & 3 other GE modules; GESS module, GEC module, GEN module), total 60MCs.
5. **Unrestricted Electives (UEM):** denote by modules in orange (modules can be used to fulfil SPN(Specialization)/ Technical electives(TE)/ 2<sup>nd</sup> major/ Minor, etc). 20MCs exempted for Poly graduates, total: 40MCs. Students need to plan in advance to fulfil the pre-req of the modules for their SPN/TE/2<sup>nd</sup> Major/minor).
6. **Major Requirements:** Engineering Core (20MCs), denote by modules in purple, IA (10MCs) exempted for Poly graduates & EE Core/ Major, denote by modules in green (40MCs), total: 60MCs.
7. The above is just a Recommended Schedule. Students should check that they fulfil their graduation requirement using the [FFG Checklist](#).

# POSSIBLE SCHEDULE FOR ECE AY2021 INTAKE POLY STUDENTS

## Possible Schedule (3.5 years) for Poly Students admitted to EE2 in Sem 1, AY2021/22

AY21/22, S1	AY21/22, S2	AY22/23, S1	AY22/23, S2	AY23/24, S1	AY23/24, S2	AY24/25, S1
Schedule I	Schedule II	Schedule III	Schedule IV	Schedule VI	Schedule VII	Schedule VIII
<b>MA1301<sup>1</sup></b> <i>(UEM 1) for those required to do, see Note 1</i> OR <b>MA1511</b> Engineering Calculus (2 MCs) + <b>MA1512</b> Differential Equations for Eng (2 MCs)	<b>MA1512</b> Differential Equations for Eng (2 MCs) <i>(If not done)</i> and <b>MA1508E</b> Linear Algebra for Engineers	<b>MA1511</b> Engineering Calculus (2 MCs) <i>(If not done)</i>	<b>Artificial Intelligence</b> (EE2211 Introduction to Machine Learning Pre-Req: CS1010E, MA1511, MA1508E)	<b>EG2401A</b> (2MC) [Pre-Requisite: ES2531 Professionalism]	EE4002D / EE4002R Design / Research Capstone	EE4002D / EE4002R Design / Research Capstone
<b>PC1201<sup>1</sup></b> Fundamentals of Physics (UEM 2)	<b>Data Literacy</b> (GEA1000 Quantitative Reasoning)	<b>Critique &amp; Expression</b> [ES2631 Critical Thinking & Writing Pre-Requisite: ES1103]	<b>Sustainable Futures</b> (EG2501 Liveable Cities)	<b>PC2020</b> <b>Electromagnetics for Electrical Engineers</b> [Pre-Req: MA1511 + MA1512]	<b>TECHNICAL ELECTIVE</b>	<b>TECHNICAL ELECTIVE</b>
<b>Digital Literacy</b> (CS1010E Programming Methodology)	<b>Project Management</b> (PF1101 Fundamentals of Project Management)	<b>Systems Thinking</b> (IE2141 Systems Thinking & Dynamics)	<b>Creating Narratives</b> [CDE2000] [Pre-Requisite: ES1103]	<b>EE2026</b> <b>Digital Design</b> or <b>EE2028</b> <b>Microcontroller Programming and Interfacing</b>	SPN / TE / Minor / <b>UEM 4</b>	SPN / TE / Minor / <b>UEM 5</b>
<b>GE Module 4</b> or <b>ES1103<sup>2</sup></b>	<b>GE Module 5</b> or SPN / TE / Minor / UEM	<b>EE2022</b> <b>Electrical Energy Systems</b> [Pre-Requisite: EE2111A]	<b>EE2012</b> <b>Analytical Methods in ECE</b> [Pre-Req: MA1511 + MA1512]	[EE2026 / EE2028 (if not taken, can be used to fulfil UEM)] / SPN / TE / Minor / <b>UEM 3</b>		
<b>EE1111A</b> <b>Electrical Engineering Principles &amp; Practice I</b>	<b>EE2111A</b> <b>Electrical Engineering Principles &amp; Practice II</b>	<b>EE2023</b> <b>Signals &amp; Systems</b> [Pre-Requisite: MA1512]	<b>EE2027</b> <b>Electronics Circuits</b> [Pre-Requisite: EE2111A]	<b>GE Module 6</b> or SPN / TE / Minor / UEM		
<b>20 MCS</b>	<b>22 MCS</b>	<b>18 MCS</b>	<b>20 MCS</b>	<b>18 MCS</b>	<b>12 MCS</b>	<b>12 MCS</b>

### NOTE:

- MA1301 & PC1201 are taken as compulsory modules. 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 module (UEM) to make up the 4MCs.**
- English Modules (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 UEM requirement. Refer to <http://www.nus.edu.sg/registrar/academic-activities/registration/academic-related-matters/get> for more details.
- Poly Exemptions:** UEMs (20 MCs), Industrial Attachment (10 MCs), EG1311 Design and Make (4 MCs), DTK1234 Design Thinking (4 MCs). Total: 38MCs
- Common Curriculum:** CDE common curriculum (36MCs, denote by modules in grey, 8MCs exempted for Poly graduates) + **NUS General Education** (denote by modules in blue, 24MC: CS1010E, ES2631, GEA1000 & 3 other GE modules; GESS module, GEC module, GEN module), total 60MCs.
- Unrestricted Electives (UEM):** denote by modules in orange (modules can be used to fulfil SPN(Specialization)/ Technical electives(TE)/ 2<sup>nd</sup> major/ Minor, etc). 20MCs exempted for Poly graduates, total: 40MCs. Students need to plan in advance to fulfil the pre-req of the modules for their SPN/TE/2<sup>nd</sup> Major/minor).
- Major Requirements:** Engineering Core (20MCs), denote by modules in purple, IA (10MCs) exempted for Poly graduates & EE Core/ Major, denote by modules in green (40MCs), total: 60MCs.
- The above is just a Recommended Schedule. Students should check that they fulfil their graduation requirement using the [FFG Checklist](#).