Innovation & Design Programme
NUS College of Design and Engineering

Bachelor of Engineering (Computer Engineering) with Second Major in Innovation & Design

Cohort AY2023/2024

Course Requirements	Units
Common Curriculum	
GEA1000 Quantitative Reasoning with Data	4
CS1010 Programming Methodology	4
ES2631 Critique and Communication of Thinking and Design [1]	4
GE: Cultures and Connections [1]	4
GE: Singapore Studies [1]	4
GE: Communities and Engagement [1]	4
CDE2000 Creating Narratives	4
CDE2501 Liveable Cities	4
DTK1234 Design Thinking	4
EE2211 Introduction to Machine Learning	4
EG1311 Design and Make	4
IE2141 Systems Thinking and Dynamics	4
PF1101 Fundamentals of Project Management	4
CDE4301 Innovation & Design Capstone or CDE4301A Ideas to Start-up (over 2 consecutive semesters) [2]	8
Sub-total for Common Curriculum	**60**
Engineering Core	
MA1511 Engineering Calculus	2
MA1512 Differential Equations for Engineering	2
MA1508E Linear Algebra for Engineering	4
EG2401A Engineering Professionalism	2
EG3611A Industrial Attachment [3] or CFG2101 NUS Vacation Internship Programme [4] and EG3612 Vacation Industrial Attachment	10
Sub-total for Engineering Core	**20**
Engineering Programme Requirements	
CG1111 Engineering Principles and Practice I	4
CG2111A Engineering Principles and Practice II	4
CG2023 Signals and Systems	4
CG2027 Transistor-level Digital Circuits	2
CG2028 Computer Organization	2
CG2271 Real-time Operating Systems	4
CS1231 Discrete Structures	4
CS2040C Data Structures and Algorithms	4
CS2113 Software Engineering & Object-Oriented Programming	4
EE2026 Digital Design	4
EE4204 Computer Networks	4
Sub-total for Engineering Programme Requirements	**40**
Unrestricted Electives	
Group A course for Second Major	4
Group B course for Second Major	4
Group C courses for Second Major (Innovation & Enterprise electives)	8
CDE3301/EG3301R Ideas to Proof-of-Concept (over 2 consecutive semesters)	12
CDE4301 Innovation & Design Capstone or CDE4301A Ideas to Start-up (over 2 consecutive semesters) [2]	4

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Other unrestricted electives	8
Sub-total for Unrestricted Electives	**40**
Total	**160**

Notes:

1 Students may read equivalent courses in NUS College (NUSC), University Town College Programme (UTCP), and Ridge View Residential Programme (RVRC).

2 The 12 units for CDE4301/CDE4301A are counted towards 8 units for the Integrated Project requirement in the Common Curriculum while 4 units are counted as unrestricted elective.

3 Students may read also fulfil the compulsory internship using any combination of the following for a minimum of 10 units (excess units are counted towards unrestricted electives):
   • CP3200 Internship (6 units)
   • CP3202 Internship II (6 units)
   • CP3880 Advanced Technology Research Programme (12 units)

4 May be replaced by CDE2605 Undergraduate Research Opportunities Programme or CDE2605R Undergraduate Research Experience (UREx).

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Recommended semester schedule – JC-intake students or equivalent
(for students who opt for vacation internships)

Semester 1	Units	Semester 2	Units
CG1111 Engineering Principles and Practice I	4	CG2111A Engineering Principles and Practice II	4
CS1010 Programming Methodology	4	GEA1000 Quantitative Reasoning with Data	4
EG1311 Design & Make	4	DTK1234 Design Thinking	4
MA1511 Engineering Calculus	2	MA1508E Linear Algebra for Engineering	4
MA1512 Differential Equations for Engineering	2	PF1101 Fundamentals of Project Management	4
GE	4	Group A/B course for Second Major ^	4
Sub-total	**20**	**Sub-total**	**24**

Summer vacation between Semesters 2 and 3	Units
CFG2101 NUS Vacation Internship Programme	4
Sub-total	**4**

Semester 3	Units	Semester 4	Units
CS1231 Discrete Structures	4	CDE2501 Liveable Cities	4
CS2040C Data Structures and Algorithms	4	CG2023 Signals and Systems	4
ES2631 Critique and Communication of Thinking and Design	4	CS2113 Software Engineering & Object-Oriented Programming	4
IE2141 Systems Thinking & Dynamics	4	EE2026 Digital Design	4
Group A/B course for Second Major ^	4	EE2211 Introduction to Machine Learning	4
		CDE3301/EG3301R Ideas to Proof-of-Concept	6
Sub-total	**20**	**Sub-total**	**26**

Summer vacation between Semesters 4 and 5	Units
EG3612 Vacation Internship Attachment	6
Sub-total	**6**

Semester 5	Units	Semester 6 – can be used for SEP	Units
CDE3301/EG3301R Ideas to Proof-of-Concept	6	Innovation & Enterprise Elective 1	4
EG2401A Engineering Professionalism	2	CG2027 Transistor-level Digital Circuits	2
GE *	4	CG2028 Computer Organization	2
GE *	4	CG2271 Real-time Operating Systems	4
UE	4	CDE2000 Creating Narratives	4
		UE	4
Sub-total	**20**	**Sub-total**	**20**

Semester 7	Units	Semester 8	Units
CDE4301 Innovation & Design Capstone	6	CDE4301 Innovation & Design Capstone	6
EE4204 Computer Networks	4	Innovation & Enterprise Elective 2	4
Sub-total	**10**	**Sub-total**	**10**

^ Students can only take CDE2310/EG2310 or CDE2301/EG2301 in Semester 2. Those who wish to take CDE2300/EG2201A (in lieu of CDE2310/EG2310) and CDE2311/EG2311/CDE2605R/CDE2606B/EG2606B (in lieu of CDE2301/EG2301) may clear both courses concurrently in Semester 3.

* Students in UTCP and RVRC will need to overload in Semesters 2 to 4 in order to clear these courses earlier.

(updated 10 July 2024)

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Recommended semester schedule – JC-intake students or equivalent
(for students who opt for vacation internships plus a specialisation)

Semester 1	Units	Semester 2	Units
CG1111 Engineering Principles and Practice I	4	CG2111A Engineering Principles and Practice II	4
CS1010 Programming Methodology	4	GEA1000 Quantitative Reasoning with Data	4
EG1311 Design & Make	4	DTK1234 Design Thinking	4
MA1511 Engineering Calculus	2	MA1508E Linear Algebra for Engineering	4
MA1512 Differential Equations for Engineering	2	PF1101 Fundamentals of Project Management	4
GE	4	Group A/B course for Second Major ^	4
Sub-total	**20**	**Sub-total**	**24**

Summer vacation between Semesters 2 and 3	Units
CFG2101 NUS Vacation Internship Programme	4
Sub-total	**4**

Semester 3	Units	Semester 4	Units
CS1231 Discrete Structures	4	CDE2501 Liveable Cities	4
CS2040C Data Structures and Algorithms	4	CG2023 Signals and Systems	4
ES2631 Critique and Communication of Thinking and Design	4	CS2113 Software Engineering & Object-Oriented Programming	4
IE2141 Systems Thinking & Dynamics	4	EE2026 Digital Design	4
Group A/B course for Second Major ^	4	EE2211 Introduction to Machine Learning	4
		CDE3301/EG3301R Ideas to Proof-of-Concept	6
Sub-total	**20**	**Sub-total**	**26**

Summer vacation between Semesters 4 and 5	Units
EG3612 Vacation Internship Attachment	6
Sub-total	**6**

Semester 5	Units	Semester 6 – can be used for SEP	Units
CDE3301/EG3301R Ideas to Proof-of-Concept	6	Innovation & Enterprise Elective 1	4
EG2401A Engineering Professionalism	2	CG2027 Transistor-level Digital Circuits	2
GE	4	CG2028 Computer Organization	2
GE	4	CG2271 Real-time Operating Systems	4
Specialisation course 1	4	CDE2000 Creating Narratives	4
		Specialisation course 2	4
Sub-total	**20**	**Sub-total**	**20**

Semester 7	Units	Semester 8	Units
CDE4301 Innovation & Design Capstone	6	CDE4301 Innovation & Design Capstone	6
EE4204 Computer Networks	4	Innovation & Enterprise Elective 2	4
Specialisation course 3	4	Specialisation course 5	4
Specialisation course 4	4		
Sub-total	**18**	**Sub-total**	**14**

^ Students can only take CDE2310/EG2310 or CDE2301/EG2301 in Semester 2. Those who wish to take CDE2300/EG2201A (in lieu of CDE2310/EG2310) and CDE2311/EG2311/CDE2605R/CDE2606B/EG2606B (in lieu of CDE2301/EG2301) may clear both courses concurrently in Semester 3.

(updated 10 July 2024)

Innovation & Design Programme
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Recommended semester schedule – JC-intake students or equivalent
(for students who opt for industrial attachment)

Semester 1	Units	Semester 2	Units
CG1111 Engineering Principles and Practice I	4	CG2111A Engineering Principles and Practice II	4
CS1010 Programming Methodology	4	GEA1000 Quantitative Reasoning with Data	4
EG1311 Design & Make	4	DTK1234 Design Thinking	4
MA1511 Engineering Calculus	2	MA1508E Linear Algebra for Engineering	4
MA1512 Differential Equations for Engineering	2	PF1101 Fundamentals of Project Management	4
GE	4	Group A/B course for Second Major ^	4
Sub-total	**20**	**Sub-total**	**24**

Semester 3	Units	Semester 4	Units
CS1231 Discrete Structures	4	CDE2501 Liveable Cities	4
CS2040C Data Structures and Algorithms	4	CG2023 Signals and Systems	4
ES2631 Critique and Communication of Thinking and Design	4	CS2113 Software Engineering & Object-Oriented Programming	4
IE2141 Systems Thinking & Dynamics	4	EE2026 Digital Design	4
Group A/B course for Second Major ^	4	EE2211 Introduction to Machine Learning	4
		CDE3301/EG3301R Ideas to Proof-of-Concept	6
Sub-total	**20**	**Sub-total**	**26**

Semester 5	Units	Semester 6	Units
CDE3301/EG3301R Ideas to Proof-of-Concept	6	EG3611A Industrial Attachment	10
EG2401A Engineering Professionalism	2		
CG2027 Transistor-level Digital Circuits	2		
CG2028 Computer Organization	2		
CG2271 Real-time Operating Systems	4		
GE *	4		
Sub-total	**20**	**Sub-total**	**10**

Semester 7	Units	Semester 8	Units
CDE4301 Innovation & Design Capstone	6	CDE4301 Innovation & Design Capstone	6
EE4204 Computer Networks	4	Innovation & Enterprise Elective 1	4
GE *	4	Innovation & Enterprise Elective 2	4
UE	4	CDE2000 Creating Narratives	4
UE	4		
Sub-total	**22**	**Sub-total**	**18**

^ Students can only take CDE2310/EG2310 or CDE2301/EG2301 in Semester 2. Those who wish to take CDE2300/EG2201A (in lieu of CDE2310/EG2310) and CDE2311/EG2311/CDE2605R/CDE2606B/EG2606B (in lieu of CDE2301/EG2301) may clear both courses concurrently in Semester 3.

* Students in UTCP and RVRC will need to overload in Semesters 2 to 4 in order to clear these courses earlier.

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Recommended semester schedule – JC-intake students or equivalent
(for students who opt for industrial attachment plus a specialisation)

Semester 1	Units	Semester 2	Units
CG1111 Engineering Principles and Practice I	4	CG2111A Engineering Principles and Practice II	4
CS1010 Programming Methodology	4	GEA1000 Quantitative Reasoning with Data	4
EG1311 Design & Make	4	DTK1234 Design Thinking	4
MA1511 Engineering Calculus	2	MA1508E Linear Algebra for Engineering	4
MA1512 Differential Equations for Engineering	2	PF1101 Fundamentals of Project Management	4
GE	4	Group A/B course for Second Major ^	4
Sub-total	20	Sub-total	24

Semester 3	Units	Semester 4	Units
CS1231 Discrete Structures	4	CDE2501 Liveable Cities	4
CS2040C Data Structures and Algorithms	4	CG2023 Signals and Systems	4
ES2631 Critique and Communication of Thinking and Design	4	CS2113 Software Engineering & Object-Oriented Programming	4
IE2141 Systems Thinking & Dynamics	4	EE2026 Digital Design	4
Group A/B course for Second Major ^	4	EE2211 Introduction to Machine Learning	4
		CDE3301/EG3301R Ideas to Proof-of-Concept	6
Sub-total	20	Sub-total	26

Semester 5	Units	Semester 6	Units
CDE3301/EG3301R Ideas to Proof-of-Concept	6	EG3611A Industrial Attachment	10
EG2401A Engineering Professionalism	2		
CG2027 Transistor-level Digital Circuits	2		
CG2028 Computer Organization	2		
CG2271 Real-time Operating Systems	4		
GE *	4		
Specialisation course 1	4		
Sub-total	24	Sub-total	10

Semester 7	Units	Semester 8	Units
CDE4301 Innovation & Design Capstone	6	CDE4301 Innovation & Design Capstone	6
Innovation & Enterprise Elective 1	4	Innovation & Enterprise Elective 2	4
EE4204 Computer Networks	4	Specialisation course 4	4
Specialisation course 2	4	Specialisation course 5	4
Specialisation course 3	4	CDE2000 Creating Narratives	4
Sub-total	22	Sub-total	22

^ Students can only take CDE2310/EG2310 or CDE2301/EG2301 in Semester 2. Those who wish to take CDE2300/EG2201A (in lieu of CDE2310/EG2310) and CDE2311/EG2311/CDE2605R/CDE2606B/EG2606B (in lieu of CDE2301/EG2301) may clear both courses concurrently in Semester 3.

* Students in UTCP and RVRC will need to overload in Semesters 2 to 4 in order to clear these courses earlier.

(updated 10 July 2024)

Innovation & Design Programme
NUS College of Design and Engineering

Recommended semester schedule – JC-intake students or equivalent
(for students in year-long NOC programmes)

Semester 1	Units	Semester 2	Units
CG1111 Engineering Principles and Practice I	4	CG2111A Engineering Principles and Practice II	4
CS1010 Programming Methodology	4	GEA1000 Quantitative Reasoning with Data	4
EG1311 Design & Make	4	DTK1234 Design Thinking	4
MA1511 Engineering Calculus	2	MA1508E Linear Algebra for Engineering	4
MA1512 Differential Equations for Engineering	2	PF1101 Fundamentals of Project Management	4
GE	4	Group A/B course for Second Major ^	4
Sub-total	**20**	**Sub-total**	**24**

Semester 3	Units	Semester 4	Units
CS1231 Discrete Structures	4	CDE2501 Liveable Cities	4
CS2040C Data Structures and Algorithms	4	CG2023 Signals and Systems	4
ES2631 Critique and Communication of Thinking and Design	4	CS2113 Software Engineering & Object-Oriented Programming	4
IE2141 Systems Thinking & Dynamics	4	EE2026 Digital Design	4
Group A/B course for Second Major ^	4	EE2211 Introduction to Machine Learning	4
		CDE3301/EG3301R Ideas to Proof-of-Concept	6
Sub-total	**20**	**Sub-total**	**26**

Semester 5	Units	Semester 6 – NOC	Units
CDE3301/EG3301R Ideas to Proof-of-Concept	6	NOC	
CG2027 Transistor-level Digital Circuits	2		
CG2028 Computer Organization	2		
CG2271 Real-time Operating Systems	4		
GE	4		
Sub-total	**18**	**Sub-total**	**22**

Semester 7 – NOC	Units	Semester 8	Units
NOC		EE4204 Computer Networks	4
		CDE2000 Creating Narratives	4
		GE	4
		UE	2
Sub-total	**20**	**Sub-total**	**14**

^ Students can only take CDE2310/EG2310 or CDE2301/EG2301 in Semester 2. Those who wish to take CDE2300/EG2201A (in lieu of CDE2310/EG2310) and CDE2311/EG2311/CDE2605R/CDE2606B/EG2606B (in lieu of CDE2301/EG2301) may clear both courses concurrently in Semester 3.

A year-long NOC programme comprises the following courses:
- ETP3206L Innovation & Enterprise Internship (16 units) – replaces EG3611A (10 units), EG2401A (2 units), and UE (4 units)
- ETP3202L Innovation & Enterprise Case Study & Analysis (8 units) – replaces CDE4301A (8 units out of 12 units)
- ETP3203L Innovation & Enterprise Internship Practicum (8 units) – replaces CDE4301A (4 units out of 12 units) and UE (4 units)
- ETP2271 Discovering Resilience and Purpose (2 units) – counted as UE (2 units)

(updated 10 July 2024)

- Entrepreneurship courses (4 or 8 units) – replaces Innovation & Enterprise electives (up to 8 units – students will need to complete additional Innovation & Enterprise Electives in NUS if they are unable to complete 8 units of entrepreneurship courses during NOC)

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Recommended semester schedule – JC-intake students or equivalent
(for students in one-semester NOC programmes)

Semester 1	Units	Semester 2	Units
CG1111 Engineering Principles and Practice I	4	CG2111A Engineering Principles and Practice II	4
CS1010 Programming Methodology	4	GEA1000 Quantitative Reasoning with Data	4
EG1311 Design & Make	4	DTK1234 Design Thinking	4
MA1511 Engineering Calculus	2	MA1508E Linear Algebra for Engineering	4
MA1512 Differential Equations for Engineering	2	PF1101 Fundamentals of Project Management	4
GE	4	Group A/B course for Second Major ^	4
Sub-total	**20**	**Sub-total**	**24**

Semester 3	Units	Semester 4	Units
CS1231 Discrete Structures	4	CDE2501 Liveable Cities	4
CS2040C Data Structures and Algorithms	4	CG2023 Signals and Systems	4
ES2631 Critique and Communication of Thinking and Design	4	CS2113 Software Engineering & Object-Oriented Programming	4
IE2141 Systems Thinking & Dynamics	4	EE2026 Digital Design	4
Group A/B course for Second Major ^	4	EE2211 Introduction to Machine Learning	4
		CDE3301/EG3301R Ideas to Proof-of-Concept	6
Sub-total	**20**	**Sub-total**	**26**

Semester 5	Units	Semester 6 – NOC	Units
CDE3301/EG3301R Ideas to Proof-of-Concept	6	NOC	
CG2027 Transistor-level Digital Circuits	2		
CG2028 Computer Organization	2		
CG2271 Real-time Operating Systems	4		
GE	4		
Sub-total	**18**	**Sub-total**	**22**

Semester 7	Units	Semester 8	Units
CDE4301 Innovation & Design Capstone	6	CDE4301 Innovation & Design Capstone	6
EE4204 Computer Networks	4	CDE2000 Creating Narratives	4
GE	4	UE	2
UE	4		
Sub-total	**18**	**Sub-total**	**12**

^ Students can only take CDE2310/EG2310 or CDE2301/EG2301 in Semester 2. Those who wish to take CDE2300/EG2201A (in lieu of CDE2310/EG2310) and CDE2311/EG2311/CDE2605R/CDE2606B/EG2606B (in lieu of CDE2301/EG2301) may clear both courses concurrently in Semester 3.

A one-semester NOC programme comprises the following courses:
- ETP3201L Innovation & Enterprise Internship (12 units) – replaces EG3611A (10 units) and EG2401A (2 units)
- ETP3204S Innovation & Enterprise Internship Practicum (4 units) – replaces Innovation & Enterprise Elective 1 (4 units)
- Entrepreneurship course (4 units) – replaces Innovation & Enterprise Elective 2 (4 units)
- ETP2271 Discovering Resilience and Purpose (2 units) – counted as UE (2 units)

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Recommended semester schedule – JC-intake students or equivalent
(for students in Engineering Scholars Programme)

Semester 1	Units	Semester 2	Units
CG1111 Engineering Principles and Practice I	4	CG2111A Engineering Principles and Practice II	4
CS1231 Discrete Structures	4	GEA1000 Quantitative Reasoning with Data	4
MA1512 Differential Equations for Engineering	2	DTK1234 Design Thinking	4
PF1101 Fundamentals of Project Management	4	CS2040C Data Structures and Algorithms	4
UTCP course 1 (replaces GE)	4	UTCP course 2 (replaces GE)	4
Group B course for Second Major	4	CDE3301/EG3301R Ideas to Proof-of-Concept	6
UE	4		
Sub-total	**26**	**Sub-total**	**26**

Semester 3	Units	Semester 4 – NOC	Units
CG2027 Transistor-level Digital Circuits	2	NOC	
CG2028 Computer Organization	2		
CS2113 Software Engineering & Object-Oriented Programming	4		
EE2026 Digital Design	4		
UTCP course 3 (replaces GE)	4		
CDE3301/EG3301R Ideas to Proof-of-Concept	6		
Group A course for Second Major	4		
Sub-total	**26**	**Sub-total**	**22**

Semester 5	Units	Semester 6	Units
CDE4301 Innovation & Design Capstone	6	CDE4301 Innovation & Design Capstone	6
CG2271 Real-time Operating Systems	4	CG2023 Signals and Systems	4
EE4204 Computer Networks	4	CDE2000 Creating Narratives	4
UTCP course 4 (replaces ES2631 Critique and Communication of Thinking and Design)	4	CDE2501 Liveable Cities	4
UE (or IE2141 Systems Thinking & Dynamics if not in RC4)	4	EE2211 Introduction to Machine Learning	4
Sub-total	**22**	**Sub-total**	**22**

Students are highly encouraged to complete the following courses before Semester 1 through advanced placement credits:
- CS1010 Programming Methodology (4 units)
- EG1311 Design & Make (4 units)
- MA1505 Mathematics I (4 units) – replaces MA511 Engineering Calculus (2 units) and counted as UE (2 units)
- MA2001 Linear Algebra (4 units) – replaces MA1508E Linear Algebra for Engineering (4 units)

A one-semester NOC programme comprises the following courses:
- ETP3201L Innovation & Enterprise Internship (12 units) – replaces EG3611A (10 units) and EG2401A (2 units)
- ETP3204S Innovation & Enterprise Internship Practicum (4 units) – replaces Innovation & Enterprise Elective 1 (4 units)

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- Entrepreneurship course (4 units) – replaces Innovation & Enterprise Elective 2 (4 units)
- ETP2271 Discovering Resilience and Purpose (2 units) – counted as UE (2 units)

(updated 10 July 2024)

Innovation & Design Programme
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Recommended semester schedule – poly-intake students

Semester 1	Units	Semester 2	Units
CG1111 Engineering Principles and Practice I	4	CG2111A Engineering Principles and Practice II	4
CS1010 Programming Methodology	4	CS2040C Data Structures and Algorithms	4
MA1301 Introductory Mathematics * (UE)	4	GEA1000 Quantitative Reasoning with Data	4
PC1201 Fundamentals of Physics (UE)	4	MA1508E Linear Algebra for Engineering	4
Group A/B course for Second Major	4	CDE3301/EG3301R Ideas to Proof-of-Concept	6
		Group A/B course for Second Major	4
Sub-total	20	Sub-total	26

Semester 3	Units	Semester 4	Units
MA1511 Engineering Calculus *	2	CG2023 Signals and Systems	4
MA1512 Differential Equations for Engineering *	2	CG2271 Real-time Operating Systems	4
CG2027 Transistor-level Digital Circuits	2	CDE2501 Liveable Cities	4
CG2028 Computer Organization	2	EE2211 Introduction to Machine Learning	4
CS2113 Software Engineering & Object-Oriented Programming	4	PF1101 Fundamentals of Project Management	4
ES2631 Critique and Communication of Thinking and Design	4	EE2026 Digital Design	4
IE2141 Systems Thinking & Dynamics	4		
CDE3301/EG3301R Ideas to Proof-of-Concept	6		
Sub-total	26	Sub-total	24

Semester 5	Units	Semester 6	Units
CDE4301 Innovation & Design Capstone	6	CDE4301 Innovation & Design Capstone	6
Innovation & Enterprise Elective 1	4	Innovation & Enterprise Elective 2	4
CS1231 Discrete Structures	4	CDE2000 Creating Narratives	4
EG2401A Engineering Professionalism	2	EE4204 Computer Networks	4
GE	4	GE	4
GE	4		
Sub-total	24	Sub-total	22

* Students who are exempted from MA1301 can take MA1511 and MA1512 in Semester 1.

Poly-intake students with accredited diplomas will receive the following exemptions:
- DTK1234 Design Thinking (4 units)
- EG1311 Design & Make (4 units)
- EG3611A Industrial Attachment (10 units)
- Unrestricted electives (20 units)

(updated 10 July 2024)