Innovation & Design Programme
NUS College of Design and Engineering

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

Cohort AY2022/2023

Modular Requirements	Modular Credits (MCs)
Common Curriculum	
CS1010E 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
DTK1234 Design Thinking	4
EE2211 Introduction to Machine Learning	4
EG1311 Design and Make	4
EG2501 Liveable Cities	4
IE2141 Systems Thinking and Dynamics	4
PF1101 Fundamentals of Project Management	4
EG4301 DCP Dissertation or EG4301A Ideas to Start-up (over 2 consecutive semesters) [2]	8
Sub-total for Common Curriculum	**56**
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 or CFG2101 NUS Vacation Internship Programme [3] and EG3612 Vacation Industrial Attachment	10
Sub-total for Engineering Core	**20**
Engineering Programme Requirements	
IE1111R Industrial & Systems Engineering Principles & Practice I [4]	4
IE2111 Industrial & Systems Engineering Principles & Practice II	4
IE2100 Probability Models with Applications	4
IE2110 Operations Research I	4
IE3101 Statistics for Engineering Applications	4
IE3110R Simulation	4
CS2040 Data Structures and Algorithms	4
ST2334 Probability and Statistics	4
Technical electives	8
Sub-total for Engineering Programme Requirements	**40**
Unrestricted Electives	
Group A module for Second Major	4
Group B module for Second Major	4
Group C modules for Second Major (Innovation & Enterprise electives)	8
EG3301R DCP Project (over 2 consecutive semesters)	12
EG4301 DCP Dissertation or EG4301A Ideas to Start-up (over 2 consecutive semesters) [2]	4
Other unrestricted electives	12
Sub-total for Unrestricted Electives	**44**
Total	**160**

(updated 3 September 2022)

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Notes:

1. Students may read equivalent modules in USP/NUSC, UTCP, and RVRC.

2. The 12 MCs for EG4301/EG4301A are counted towards 8 MCs for the Integrated Project requirement in the Common Curriculum while 4 MCs are counted as unrestricted elective.

   Students who are pursuing a specialisation will read IE4100R B.Eng. Dissertation (8 MCs) to fulfil Integrated Project. The 12 MCs for EG4301/EG4301A will be fully counted as UEM.

3. May be replaced by EG2605 Undergraduate Research Opportunities Programme.

4. Students who complete IE1111R do not need to take GEA1000 Quantitative Reasoning with Data in the Common Curriculum.

(updated 3 September 2022)

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

Semester 1	MCs	Semester 2	MCs
IE1111R Industrial & Systems Engineering Principles & Practice I	4	IE2111 Industrial & Systems Engineering Principles & Practice II	4
CS1010E Programming Methodology	4	ST2334 Probability and Statistics	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 module for Second Major ^	4
Sub-total	**20**	**Sub-total**	**24**

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

Semester 3	MCs	Semester 4	MCs
IE2110 Operations Research I	4	IE2100 Probability Models with Applications	4
CS2040 Data Structures and Algorithms	4	EE2211 Introduction to Machine Learning	4
ES2631 Critique and Communication of Thinking and Design	4	EG2501 Liveable Cities	4
IE2141 Systems Thinking & Dynamics	4	CDE2000 Creating Narratives	4
Group A/B module for Second Major	4	EG3301R DCP Project	6
Sub-total	**20**	**Sub-total**	**22**

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

Semester 5	MCs	Semester 6 – can be used for SEP	MCs
EG3301R DCP Project	6	Innovation & Enterprise Elective 1	4
IE3101 Statistics for Engineering Applications	4	Technical Elective 1	4
IE3110R Simulation	4	GE *	4
EG2401A Engineering Professionalism	2	UE	4
GE *	4	UE	4
Sub-total	**20**	**Sub-total**	**20**

Semester 7	MCs	Semester 8	MCs
EG4301 DCP Dissertation	6	EG4301 DCP Dissertation	6
Innovation & Enterprise Elective 2	4	UE	4
Technical Elective 2	4		
Sub-total	**14**	**Sub-total**	**10**

^ Students can only take EG2310 or EG2301 in this semester. Those who wish to take EG2201A (in lieu of EG2310) and EG2311/EG2606B (in lieu of EG2301) may clear both modules concurrently in Semester 3.

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

(updated 3 September 2022)

Innovation & Design Programme
NUS College of Design and Engineering

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

Semester 1	MCs	Semester 2	MCs
IE1111R Industrial & Systems Engineering Principles & Practice I	4	IE2111 Industrial & Systems Engineering Principles & Practice II	4
CS1010E Programming Methodology	4	ST2334 Probability and Statistics	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 module for Second Major ^	4
Sub-total	**20**	**Sub-total**	**24**

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

Semester 3	MCs	Semester 4	MCs
IE2110 Operations Research I	4	IE2100 Probability Models with Applications	4
CS2040 Data Structures and Algorithms	4	EE2211 Introduction to Machine Learning	4
ES2631 Critique and Communication of Thinking and Design	4	EG2501 Liveable Cities	4
IE2141 Systems Thinking & Dynamics	4	CDE2000 Creating Narratives	4
Group A/B module for Second Major	4	EG3301R DCP Project	6
Sub-total	**20**	**Sub-total**	**22**

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

Semester 5	MCs	Semester 6 – can be used for SEP	MCs
EG3301R DCP Project	6	Innovation & Enterprise Elective 1	4
IE3101 Statistics for Engineering Applications	4	Specialisation Elective 1	4
IE3110R Simulation	4	Specialisation Elective 2	4
EG2401A Engineering Professionalism	2	Specialisation Elective 3	4
GE *	4	GE *	4
Sub-total	**20**	**Sub-total**	**20**

Semester 7	MCs	Semester 8	MCs
EG4301 DCP Dissertation	6	EG4301 DCP Dissertation	6
Innovation & Enterprise Elective 2	4	IE4100R B.Eng. Dissertation	4
IE4100R B.Eng. Dissertation	4		
Sub-total	**14**	**Sub-total**	**10**

^ Students can only take EG2310 or EG2301 in this semester. Those who wish to take EG2201A (in lieu of EG2310) and EG2311/EG2606B (in lieu of EG2301) may clear both modules concurrently in Semester 3.

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

(updated 3 September 2022)

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

Semester 1	MCs	Semester 2	MCs
IE1111R Industrial & Systems Engineering Principles & Practice I	4	IE2111 Industrial & Systems Engineering Principles & Practice II	4
CS1010E Programming Methodology	4	ST2334 Probability and Statistics	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 module for Second Major ^	4
Sub-total	**20**	**Sub-total**	**24**

Semester 3	MCs	Semester 4	MCs
IE2110 Operations Research I	4	IE2100 Probability Models with Applications	4
CS2040 Data Structures and Algorithms	4	EE2211 Introduction to Machine Learning	4
ES2631 Critique and Communication of Thinking and Design	4	EG2501 Liveable Cities	4
IE2141 Systems Thinking & Dynamics	4	CDE2000 Creating Narratives	4
Group A/B module for Second Major	4	EG3301R DCP Project	6
Sub-total	**20**	**Sub-total**	**22**

Semester 5	MCs	Semester 6	MCs
EG3301R DCP Project	6	EG3611A Industrial Attachment	10
IE3101 Statistics for Engineering Applications	4		
IE3110R Simulation	4		
EG2401A Engineering Professionalism	2		
GE *	4		
Sub-total	**20**	**Sub-total**	**10**

Semester 7	MCs	Semester 8	MCs
EG4301 DCP Dissertation	6	EG4301 DCP Dissertation	6
Innovation & Enterprise Elective 1	4	Innovation & Enterprise Elective 2	4
Technical Elective 1	4	Technical Elective 2	4
GE *	4	UE	4
UE	4	UE	4
Sub-total	**22**	**Sub-total**	**22**

^ Students can only take EG2310 or EG2301 in this semester. Those who wish to take EG2201A (in lieu of EG2310) and EG2311/EG2606B (in lieu of EG2301) may clear both modules concurrently in Semester 3.

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

(updated 3 September 2022)

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

Semester 1	MCs	Semester 2	MCs
IE1111R Industrial & Systems Engineering Principles & Practice I	4	IE2111 Industrial & Systems Engineering Principles & Practice II	4
CS1010E Programming Methodology	4	ST2334 Probability and Statistics	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 module for Second Major ^	4
Sub-total	**20**	**Sub-total**	**24**

Semester 3	MCs	Semester 4	MCs
IE2110 Operations Research I	4	IE2100 Probability Models with Applications	4
CS2040 Data Structures and Algorithms	4	EE2211 Introduction to Machine Learning	4
ES2631 Critique and Communication of Thinking and Design	4	EG2501 Liveable Cities	4
IE2141 Systems Thinking & Dynamics	4	CDE2000 Creating Narratives	4
Group A/B module for Second Major	4	EG3301R DCP Project	6
Sub-total	**20**	**Sub-total**	**22**

Semester 5	MCs	Semester 6	MCs
EG3301R DCP Project	6	EG3611A Industrial Attachment	10
IE3101 Statistics for Engineering Applications	4		
IE3110R Simulation	4		
EG2401A Engineering Professionalism	2		
GE *	4		
Sub-total	**20**	**Sub-total**	**10**

Semester 7	MCs	Semester 8	MCs
EG4301 DCP Dissertation	6	EG4301 DCP Dissertation	6
Innovation & Enterprise Elective 1	4	Innovation & Enterprise Elective 2	4
IE4100R B.Eng. Dissertation	4	IE4100R B.Eng. Dissertation	4
Specialisation Elective 1	4	Specialisation Elective 2	4
GE *	4	Specialisation Elective 3	4
Sub-total	**22**	**Sub-total**	**22**

^ Students can only take EG2310 or EG2301 in this semester. Those who wish to take EG2201A (in lieu of EG2310) and EG2311/EG2606B (in lieu of EG2301) may clear both modules concurrently in Semester 3.

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

(updated 3 September 2022)

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	MCs	Semester 2	MCs
IE1111R Industrial & Systems Engineering Principles & Practice I	4	IE2111 Industrial & Systems Engineering Principles & Practice II	4
CS1010E Programming Methodology	4	ST2334 Probability and Statistics	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 module for Second Major ^	4
Sub-total	**20**	**Sub-total**	**24**

Semester 3	MCs	Semester 4	MCs
IE2110 Operations Research I	4	IE2100 Probability Models with Applications	4
CS2040 Data Structures and Algorithms	4	EE2211 Introduction to Machine Learning	4
ES2631 Critique and Communication of Thinking and Design	4	EG2501 Liveable Cities	4
IE2141 Systems Thinking & Dynamics	4	CDE2000 Creating Narratives	4
Group A/B module for Second Major	4	EG3301R DCP Project	6
Sub-total	**24**	**Sub-total**	**22**

Semester 5	MCs	Semester 6 – NOC	MCs
EG3301R DCP Project	6		
IE3101 Statistics for Engineering Applications	4		
IE3110R Simulation	4	NOC	
GE *	4		
GE *	4		
Sub-total	**22**	**Sub-total**	**20**

Semester 7 – NOC	MCs	Semester 8	MCs
		Technical Elective 1	4
NOC		Technical Elective 2	4
		UE	4
Sub-total	**20**	**Sub-total**	**12**

^ Students can only take EG2310 or EG2301 in this semester. Those who wish to take EG2201A (in lieu of EG2310) and EG2311/EG2606B (in lieu of EG2301) may clear both modules concurrently in Semester 3.

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

A year-long NOC programme comprises the following modules:
- TR3201N Entrepreneurship Practicum (8 MCs) – replaces EG4301A (4 MCs out of 12 MCs) and UE (4 MCs)
- TR3202N Start-up Internship Programme (12 MCs) – replaces EG3611A (10 MCs) and EG2401A (2 MCs)
- TR3203N Start-up Case Study and Analysis (8 MCs) – replaces EG4301A (8 MCs out of 12 MCs)
- Entrepreneurship courses (up to 12 MCs) – replaces Innovation & Enterprise electives (up to 8 MCs) while the rest are counted as UE

(updated 3 September 2022)

Innovation & Design Programme
NUS College of Design and Engineering

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

Semester 1	MCs	Semester 2	MCs
IE1111R Industrial & Systems Engineering Principles & Practice I	4	IE2111 Industrial & Systems Engineering Principles & Practice II	4
CS1010E Programming Methodology	4	ST2334 Probability and Statistics	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 module for Second Major ^	4
Sub-total	**20**	**Sub-total**	**24**

Semester 3	MCs	Semester 4	MCs
IE2110 Operations Research I	4	IE2100 Probability Models with Applications	4
CS2040 Data Structures and Algorithms	4	EE2211 Introduction to Machine Learning	4
ES2631 Critique and Communication of Thinking and Design	4	EG2501 Liveable Cities	4
IE2141 Systems Thinking & Dynamics	4	CDE2000 Creating Narratives	4
Group A/B module for Second Major	4	EG3301R DCP Project	6
Sub-total	**24**	**Sub-total**	**22**

Semester 5	MCs	Semester 6 – NOC	MCs
EG3301R DCP Project	6	NOC	
IE3101 Statistics for Engineering Applications	4		
IE3110R Simulation	4		
GE *	4		
GE *	4		
Sub-total	**22**	**Sub-total**	**20**

Semester 7	MCs	Semester 8	MCs
EG4301 DCP Dissertation	6	EG4301 DCP Dissertation	6
Technical Elective 1	4	Technical Elective 2	4
UE	4	UE	4
UE	4		
Sub-total	**18**	**Sub-total**	**14**

^ Students can only take EG2310 or EG2301 in this semester. Those who wish to take EG2201A (in lieu of EG2310) and EG2311/EG2606B (in lieu of EG2301) may clear both modules concurrently in Semester 3.

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

A one-semester NOC programme comprises the following modules:
- TR3202S Start-up Internship Programme (12 MCs) – replaces EG3611A (10 MCs) and EG2401A (2 MCs)
- TR3204 Entrepreneurship Practicum (4 MCs) – replaces Innovation & Enterprise Elective 1
- Entrepreneurship course (4 MCs) – replaces Innovation & Enterprise Elective 2

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

Semester 1	MCs	Semester 2	MCs
IE1111R Industrial & Systems Engineering Principles & Practice I	4	IE2111 Industrial & Systems Engineering Principles & Practice II	4
MA1511 Engineering Calculus	2	IE2100 Probability Models with Applications	4
MA1512 Differential Equations for Engineering	2	ST2334 Probability and Statistics	4
RC4 module 1 (replaces GE)	4	DTK1234 Design Thinking	4
Group B module for Second Major	4	PF1101 Fundamentals of Project Management	4
UE	4	RC4 module 2 (replaces GE)	4
UE (or IE2141 Systems Thinking & Dynamics if not in RC4)	4	EG3301R DCP Project	6
Sub-total	24	Sub-total	30

Semester 3	MCs	Semester 4 – NOC	MCs
IE2110 Operations Research I	4		
IE3101 Statistics for Engineering Applications	4		
CS2040 Data Structures and Algorithms	4	NOC	
RC4 module 3 (replaces GE)	4		
EG3301R DCP Project	6		
Group A module for Second Major	4		
Sub-total	26	Sub-total	20

Semester 5	MCs	Semester 6	MCs
EG4301 DCP Dissertation	6	EG4301 DCP Dissertation	6
RC4 module 4 (replaces ES2631 Critique and Communication of Thinking and Design)	4	EE2211 Introduction to Machine Learning	4
IE3110R Simulation	4	EG2501 Liveable Cities	4
Technical Elective 1	4	CDE2000 Creating Narratives	4
Technical Elective 2	4	UE	4
		UE	4
Sub-total	22	Sub-total	24

Students must complete the following modules before Semester 1 through advanced placement credits:
- CS1010E Programming Methodology (4 MCs)
- MA1508E Linear Algebra for Engineering (4 MCs) – using MA2001 Linear Algebra
- EG1311 Design & Make (4 MCs)

A one-semester NOC programme comprises the following modules:
- TR3202S Start-up Internship Programme (12 MCs) – replaces EG3611A (10 MCs) and EG2401A (2 MCs)
- TR3204 Entrepreneurship Practicum (4 MCs) – replaces Innovation & Enterprise Elective 1
- Entrepreneurship course (4 MCs) – replaces Innovation & Enterprise Elective 2

Students who are not going on NOC must read EG2101 Pathways to Engineering Leadership in lieu of EG2401A.

(updated 3 September 2022)

Innovation & Design Programme
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Recommended semester schedule – poly-intake students
(for students who are <u>not</u> required to take MA1301 and PC1201)

Semester 1	MCs	Semester 2	MCs
IE1111R Industrial & Systems Engineering Principles & Practice I	4	IE2111 Industrial & Systems Engineering Principles & Practice II	4
CS1010E Programming Methodology	4	ST2334 Probability and Statistics	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	EG3301R DCP Project	6
Group A/B module for Second Major ^	4		
Sub-total	**20**	**Sub-total**	**22**

Semester 3	MCs	Semester 4	MCs
IE2110 Operations Research I	4	IE2100 Probability Models with Applications	4
CS2040 Data Structures and Algorithms	4	EE2211 Introduction to Machine Learning	4
ES2631 Critique and Communication of Thinking and Design	4	EG2501 Liveable Cities	4
IE2141 Systems Thinking & Dynamics	4	CDE2000 Creating Narratives	4
EG3301R DCP Project	6	GE	4
Group A/B module for Second Major	4	GE	4
Sub-total	**26**	**Sub-total**	**24**

Semester 5	MCs	Semester 6	MCs
EG4301 DCP Dissertation	6	EG4301 DCP Dissertation	6
Innovation & Enterprise Elective 1	4	Innovation & Enterprise Elective 2	4
IE3101 Statistics for Engineering Applications	4	Technical Elective 1	4
IE3110R Simulation	4	Technical Elective 2	4
EG2401A Engineering Professionalism	2		
Sub-total	**20**	**Sub-total**	**18**

^ Students are recommended to take EG2201A in this semester. Those who wish to take EG2310 (in lieu of EG2201A) should take EG2301/EG2311/EG2606B in Semester 1 and EG2310 in Semester 2.

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

(updated 3 September 2022)

Innovation & Design Programme
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Recommended semester schedule – poly-intake students
(for students who are required to take MA1301 and PC1201)

Semester 1	MCs	Semester 2	MCs
IE1111R Industrial & Systems Engineering Principles & Practice I	4	IE2111 Industrial & Systems Engineering Principles & Practice II	4
CS1010E Programming Methodology	4	MA1511 Engineering Calculus	2
MA1301 Introductory Mathematics (UEM)	4	MA1508E Linear Algebra for Engineering	4
PC1201 Fundamentals of Physics	4	PF1101 Fundamentals of Project Management	4
Group A/B module for Second Major ^	4	Group A/B module for Second Major	4
		EG3301R DCP Project	6
Sub-total	**20**	**Sub-total**	**24**

Semester 3	MCs	Semester 4	MCs
IE2110 Operations Research I	4	IE2100 Probability Models with Applications	4
MA1512 Differential Equations for Engineering	2	CS2040 Data Structures and Algorithms	4
ST2334 Probability and Statistics	4	EE2211 Introduction to Machine Learning	4
ES2631 Critique and Communication of Thinking and Design	4	EG2501 Liveable Cities	4
IE2141 Systems Thinking & Dynamics	4	CDE2000 Creating Narratives	4
EG3301R DCP Project	6	GE	4
Sub-total	**24**	**Sub-total**	**24**

Semester 5	MCs	Semester 6	MCs
EG4301 DCP Dissertation	6	EG4301 DCP Dissertation	6
Innovation & Enterprise Elective 1	4	Innovation & Enterprise Elective 2	4
IE3101 Statistics for Engineering Applications	4	Technical Elective 1	4
IE3110R Simulation	4	Technical Elective 2	4
EG2401A Engineering Professionalism	2	GE	4
GE	4		
Sub-total	**24**	**Sub-total**	**22**

^ Students are recommended to take EG2201A in this semester. Those who wish to take EG2310 (in lieu of EG2201A) should take EG2301/EG2311/EG2606B in Semester 1 and EG2310 in Semester 2.

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

(updated 3 September 2022)