

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

Cohort AY2026/2027

Course Requirements	Units
Common Curriculum	
GEA1000 Quantitative Reasoning with Data ¹	4
CS1010E Programming Methodology (or other variants) ²	4
CDE2501 Sustainable Systems for Liveable Cities ²	4
ES2631 Critique and Communication of Thinking and Design ²	4
GE: Cultures and Connections ²	4
GE: Communities and Engagement ²	4
DTK1234 Design Thinking	4
EE2211 Introduction to Machine Learning or EE2213 Introduction to Artificial Intelligence	4
EG1311 Design and Make or EG1311BE Design and Make	4
PF1101A Project Management and Finance	4
Sub-total for Common Curriculum	40
Engineering Core	
MA1505 Mathematics I	4
MA1512 Differential Equations for Engineering	2
MA1513 Linear Algebra with Differential Equations	2
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	
ME1103 Principles of Mechanics and Materials	4
ME2105 Principles of Mechatronics and Automation	4
ME2102 Engineering Innovation and Modelling	4
ME2116 Strength of Materials	4
ME2121 Engineering Thermodynamics and Heat Transfer	4
ME2134 Fluids Mechanics I	4
ME2162 Manufacturing Processes	4
ME3115 Mechanics of Machines	4
ME3123 Applied Thermofluids	4
ME3142 Feedback Control Systems	4
Technical electives	12
CDE4301 Innovation & Design Capstone or CDE4301A Ideas to Start-up (over 2 consecutive semesters) ⁴	8
Sub-total for Engineering Programme Requirements	60
Unrestricted Electives	
CDE3301 Ideas to Proof-of-Concept (over 2 consecutive semesters) ⁵	12
CDE4301 Innovation & Design Capstone or CDE4301A Ideas to Start-up (over 2 consecutive semesters) ⁴	4
Electives for Second Major ⁵	16
Other unrestricted electives	8
Sub-total for Unrestricted Electives	40
Total	160

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Notes:

- ¹ Students may read other approved courses for Data Literacy in lieu of GEA1000.
- ² Students may read equivalent courses in NUS College (NUSC), University Town College Programme (UTCP), and Ridge View Residential Programme (RVRC). CDE2501 fulfils GE: Singapore Studies while ES2631 fulfils GE: Critique and Expression.
- ³ May be replaced by CDE2605 Undergraduate Research Opportunities Programme or CDE2605R Undergraduate Research Experience (UREx).
- ⁴ The 12 units for CDE4301/CDE4301A are counted towards 8 units for Integrated Project while 4 units are counted as unrestricted elective.
- ⁵ Students should clear at least one elective course from List I prior to CDE3301. Students in competition teams may enrol in CDE3301C Complex Systems Design: From Mission to Prototype in Semester 3 to Semester 4 (Year 2) or Semester 5 to Semester 6 (Year 3).

Sample study plan – JC-intake students or equivalent
(for students who opt for vacation internships)

Semester 1	Units	Semester 2	Units
ME1103 Principles of Mechanics and Materials or ME2105 Principles of Mechatronics and Automation	4	ME1103 Principles of Mechanics and Materials or ME2105 Principles of Mechatronics and Automation	4
CS1010E Programming Methodology	4	GEA1000 Quantitative Reasoning with Data	4
EG1311 Design and Make or EG1311BE Design and Make	4	DTK1234 Design Thinking	4
MA1505 Mathematics I	4	MA1512 Differential Equations for Engineering	2
GE	4	MA1513 Linear Algebra with Differential Equations	2
		PF1101A Project Management and Finance	4
		Elective 1 for Second Major (from List I)	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
ME2116 Strength of Materials	4	ME2102 Engineering Innovation and Modelling	4
ME2134 Fluids Mechanics I	4	ME2121 Engineering Thermodynamics and Heat Transfer	4
ME3115 Mechanics of Machines	4	CDE2501 Sustainable Systems for Liveable Cities	4
ES2631 Critique and Communication of Thinking and Design	4	EE2211 Introduction to Machine Learning or EE2213 Introduction to Artificial Intelligence	4
Elective 2 for Second Major (from List I)	4	CDE3301 Ideas to Proof-of-Concept	6
Sub-total	20	Sub-total	22

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 Ideas to Proof-of-Concept	6	Elective 3 for Second Major	4
ME2162 Manufacturing Processes	4	Technical Elective 1	4
ME3123 Applied Thermofluids	4	Technical Elective 2	4
ME3142 Feedback Control Systems	4	GE	4
EG2401A Engineering Professionalism	2	UE	4
Sub-total	20	Sub-total	20

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Semester 7	Units	Semester 8	Units
CDE4301 Innovation & Design Capstone or CDE4301A Ideas to Start-up	6	CDE4301 Innovation & Design Capstone or CDE4301A Ideas to Start-up	6
Elective 4 for Second Major	4	Technical Elective 3	4
UE	4		
Sub-total	14	Sub-total	10

Sample study plan – JC-intake students or equivalent

(for students who opt for vacation internships **plus a specialisation**)

Semester 1	Units	Semester 2	Units
ME1103 Principles of Mechanics and Materials or ME2105 Principles of Mechatronics and Automation	4	ME1103 Principles of Mechanics and Materials or ME2105 Principles of Mechatronics and Automation	4
CS1010E Programming Methodology	4	GEA1000 Quantitative Reasoning with Data	4
EG1311 Design and Make or EG1311BE Design and Make	4	DTK1234 Design Thinking	4
MA1505 Mathematics I	4	MA1512 Differential Equations for Engineering	2
GE	4	MA1513 Linear Algebra with Differential Equations	2
		PF1101A Project Management and Finance	4
		Elective 1 for Second Major (from List I)	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
ME2116 Strength of Materials	4	ME2102 Engineering Innovation and Modelling	4
ME2134 Fluids Mechanics I	4	ME2121 Engineering Thermodynamics and Heat Transfer	4
ME3115 Mechanics of Machines	4	Sustainable Systems for Liveable Cities	4
ES2631 Critique and Communication of Thinking and Design	4	EE2211 Introduction to Machine Learning or EE2213 Introduction to Artificial Intelligence	4
Elective 2 for Second Major (from List I)	4	CDE3301 Ideas to Proof-of-Concept	6
Sub-total	20	Sub-total	22

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 Ideas to Proof-of-Concept	6	Elective 3 for Second Major	4
ME2162 Manufacturing Processes	4	Specialisation course 1	4
ME3123 Applied Thermofluids	4	Specialisation course 2	4
ME3142 Feedback Control Systems	4	Specialisation course 3	4
EG2401A Engineering Professionalism	2	GE	4
Sub-total	20	Sub-total	20

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Semester 7	Units	Semester 8	Units
CDE4301 Innovation & Design Capstone or CDE4301A Ideas to Start-up	6	CDE4301 Innovation & Design Capstone or CDE4301A Ideas to Start-up	6
Elective 4 for Second Major	4	Specialisation course 5	4
Specialisation course 4	4		
Sub-total	14	Sub-total	10

Sample study plan – JC-intake students or equivalent
(for students who opt for industrial attachment)

Semester 1	Units	Semester 2	Units
ME1103 Principles of Mechanics and Materials or ME2105 Principles of Mechatronics and Automation	4	ME1103 Principles of Mechanics and Materials or ME2105 Principles of Mechatronics and Automation	4
CS1010E Programming Methodology	4	GEA1000 Quantitative Reasoning with Data	4
EG1311 Design and Make or EG1311BE Design and Make	4	DTK1234 Design Thinking	4
MA1505 Mathematics I	4	MA1512 Differential Equations for Engineering	2
GE	4	MA1513 Linear Algebra with Differential Equations	2
		PF1101A Project Management and Finance	4
		Elective 1 for Second Major (from List I)	4
Sub-total	20	Sub-total	24

Semester 3	Units	Semester 4	Units
ME2116 Strength of Materials	4	ME2102 Engineering Innovation and Modelling	4
ME2134 Fluids Mechanics I	4	ME2121 Engineering Thermodynamics and Heat Transfer	4
ME3115 Mechanics of Machines	4	CDE2501 Sustainable Systems for Liveable Cities	4
ES2631 Critique and Communication of Thinking and Design	4	EE2211 Introduction to Machine Learning or EE2213 Introduction to Artificial Intelligence	4
Elective 2 for Second Major (from List I)	4	CDE3301 Ideas to Proof-of-Concept	6
Sub-total	20	Sub-total	22

Semester 5	Units	Semester 6	Units
CDE3301 Ideas to Proof-of-Concept	6	EG3611A Industrial Attachment	10
ME2162 Manufacturing Processes	4		
ME3123 Applied Thermofluids	4		
ME3142 Feedback Control Systems	4		
EG2401A Engineering Professionalism	2		
Sub-total	20	Sub-total	10

Semester 7	Units	Semester 8	Units
CDE4301 Innovation & Design Capstone or CDE4301A Ideas to Start-up	6	CDE4301 Innovation & Design Capstone or CDE4301A Ideas to Start-up	6
Elective 3 for Second Major	4	Elective 4 for Second Major	4
Technical Elective 1	4	Technical Elective 2	4
GE	4	Technical Elective 3	4
UE	4	UE	4
Sub-total	22	Sub-total	22

Sample study plan – JC-intake students or equivalent

(for students who opt for industrial attachment **plus a specialisation**)

Semester 1	Units	Semester 2	Units
ME1103 Principles of Mechanics and Materials or ME2105 Principles of Mechatronics and Automation	4	ME1103 Principles of Mechanics and Materials or ME2105 Principles of Mechatronics and Automation	4
CS1010E Programming Methodology	4	GEA1000 Quantitative Reasoning with Data	4
EG1311 Design and Make or EG1311BE Design and Make	4	DTK1234 Design Thinking	4
MA1505 Mathematics I	4	MA1512 Differential Equations for Engineering	2
GE	4	MA1513 Linear Algebra with Differential Equations	2
		PF1101A Project Management and Finance	4
		Elective 1 for Second Major (from List I)	4
Sub-total	20	Sub-total	24

Semester 3	Units	Semester 4	Units
ME2116 Strength of Materials	4	ME2102 Engineering Innovation and Modelling	4
ME2134 Fluids Mechanics I	4	ME2121 Engineering Thermodynamics and Heat Transfer	4
ME3115 Mechanics of Machines	4	CDE2501 Sustainable Systems for Liveable Cities	4
ES2631 Critique and Communication of Thinking and Design	4	EE2211 Introduction to Machine Learning or EE2213 Introduction to Artificial Intelligence	4
Elective 2 for Second Major (from List I)	4	CDE3301 Ideas to Proof-of-Concept	6
Sub-total	20	Sub-total	22

Semester 5	Units	Semester 6	Units
CDE3301 Ideas to Proof-of-Concept	6	EG3611A Industrial Attachment	10
ME2162 Manufacturing Processes	4		
ME3123 Applied Thermofluids	4		
ME3142 Feedback Control Systems	4		
EG2401A Engineering Professionalism	2		
Sub-total	20	Sub-total	10

Semester 7	Units	Semester 8	Units
CDE4301 Innovation & Design Capstone or CDE4301A Ideas to Start-up	6	CDE4301 Innovation & Design Capstone or CDE4301A Ideas to Start-up	6
Elective 3 for Second Major	4	Elective 4 for Second Major	4
Specialisation course 1	4	Specialisation course 3	4
Specialisation course 2	4	Specialisation course 4	4
GE	4	Specialisation course 5	4
Sub-total	22	Sub-total	22

Sample study plan – JC-intake students or equivalent
(for students in year-long NOC programmes)

Semester 1	Units	Semester 2	Units
ME1103 Principles of Mechanics and Materials or ME2105 Principles of Mechatronics and Automation	4	ME1103 Principles of Mechanics and Materials or ME2105 Principles of Mechatronics and Automation	4
CS1010E Programming Methodology	4	GEA1000 Quantitative Reasoning with Data	4
EG1311 Design and Make or EG1311BE Design and Make	4	DTK1234 Design Thinking	4
MA1505 Mathematics I	4	MA1512 Differential Equations for Engineering	2
GE	4	MA1513 Linear Algebra with Differential Equations	2
		PF1101A Project Management and Finance	4
		Elective 1 for Second Major (from List I)	4
Sub-total	20	Sub-total	24

Semester 3	Units	Semester 4	Units
ME2116 Strength of Materials	4	ME2102 Engineering Innovation and Modelling	4
ME2134 Fluids Mechanics I	4	ME2121 Engineering Thermodynamics and Heat Transfer	4
ME3115 Mechanics of Machines	4	CDE2501 Sustainable Systems for Liveable Cities	4
ES2631 Critique and Communication of Thinking and Design	4	EE2211 Introduction to Machine Learning or EE2213 Introduction to Artificial Intelligence	4
Elective 2 for Second Major (from List I)	4	CDE3301 Ideas to Proof-of-Concept	6
Sub-total	20	Sub-total	22

Semester 5	Units	Semester 6 – NOC	Units
CDE3301 Ideas to Proof-of-Concept	6	NOC	
ME2162 Manufacturing Processes	4		
ME3123 Applied Thermofluids	4		
ME3142 Feedback Control Systems	4		
GE	4		
Sub-total	22	Sub-total	20

Semester 7 – NOC	Units	Semester 8	Units
NOC		Technical Elective 1	4
		Technical Elective 2	4
		Technical Elective 3	4
Sub-total	20	Sub-total	12

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A year-long NOC programme comprises the following courses (up to 40 units):

- 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)
- Entrepreneurship courses (up to 8 units) – replaces Electives 3 and 4 for Second Major (students will need to complete Electives 3 and/or 4 for Second Major in NUS if they are unable to complete 8 units of entrepreneurship courses during NOC)

Sample study plan – JC-intake students or equivalent
(for students in one-semester NOC programmes)

Semester 1	Units	Semester 2	Units
ME1103 Principles of Mechanics and Materials or ME2105 Principles of Mechatronics and Automation	4	ME1103 Principles of Mechanics and Materials or ME2105 Principles of Mechatronics and Automation	4
CS1010E Programming Methodology	4	GEA1000 Quantitative Reasoning with Data	4
EG1311 Design and Make or EG1311BE Design and Make	4	DTK1234 Design Thinking	4
MA1505 Mathematics I	4	MA1512 Differential Equations for Engineering	2
GE	4	MA1513 Linear Algebra with Differential Equations	2
		PF1101A Project Management and Finance	4
		Elective 1 for Second Major (from List I)	4
Sub-total	20	Sub-total	24

Semester 3	Units	Semester 4	Units
ME2116 Strength of Materials	4	ME2102 Engineering Innovation and Modelling	4
ME2134 Fluids Mechanics I	4	ME2121 Engineering Thermodynamics and Heat Transfer	4
ME3115 Mechanics of Machines	4	CDE2501 Sustainable Systems for Liveable Cities	4
ES2631 Critique and Communication of Thinking and Design	4	EE2211 Introduction to Machine Learning or EE2213 Introduction to Artificial Intelligence	4
Elective 2 for Second Major (from List I)	4	CDE3301 Ideas to Proof-of-Concept	6
Sub-total	20	Sub-total	22

Semester 5	Units	Semester 6 – NOC	Units
CDE3301 Ideas to Proof-of-Concept	6	NOC	
ME2162 Manufacturing Processes	4		
ME3123 Applied Thermofluids	4		
ME3142 Feedback Control Systems	4		
GE	4		
Sub-total	22	Sub-total	20

Semester 7	Units	Semester 8	Units
CDE4301 Innovation & Design Capstone or CDE4301A Ideas to Start-up	6	CDE4301 Innovation & Design Capstone or CDE4301A Ideas to Start-up	6
Technical Elective 1	4	Technical Elective 3	4
Technical Elective 2	4	UE	4
UE	4		
Sub-total	18	Sub-total	14

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A one-semester NOC programme comprises the following courses (up to 20 units):

- ETP3201S Innovation & Enterprise Internship (12 units) – replaces EG3611A (10 units) and EG2401A (2 units)
- ETP3204S Innovation & Enterprise Internship Practicum (Short) (4 units) – replaces Elective 3 for Second Major (4 units)
- Entrepreneurship course (4 units) – replaces Elective 4 for Second Major (4 units)

Sample study plan – JC-intake students or equivalent

(for students in Engineering Scholars Programme who plan to go for SEP)

Semester 1	Units	Semester 2	Units
ME1103 Principles of Mechanics and Materials	4	ME2105 Principles of Mechatronics and Automation	4
MA1512 Differential Equations for Engineering	2	ME2102 Engineering Innovation and Modelling	4
MA1513 Linear Algebra with Differential Equations	2	GEA1000 Quantitative Reasoning with Data	4
PF1101A Project Management and Finance	4	DTK1234 Design Thinking	4
RVRC/UTCP course 1 (replaces GE)	4	RVRC/UTCP course 2 (replaces GE)	4
Elective 1 for Second Major (from List I)	4	CDE3301 Ideas to Proof-of-Concept	6
UE	4		
Sub-total	24	Sub-total	26

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

Semester 3	Units	Semester 4 – can be used for SEP	Units
ME2116 Strength of Materials	4	ME2121 Engineering Thermodynamics and Heat Transfer	4
ME2134 Fluids Mechanics I	4	EE2211 Introduction to Machine Learning or EE2213 Introduction to Artificial Intelligence	4
ME2162 Manufacturing Processes	4	EG2401A Engineering Professionalism	2
RVRC/UTCP course 3 (replaces CDE2501)	4	RVRC/UTCP course 4 (replaces ES2631)	4
Elective 2 for Second Major (from List I)	4	Elective 3 for Second Major	4
CDE3301 Ideas to Proof-of-Concept	6	UE	4
Sub-total	26	Sub-total	22

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

Semester 5	Units	Semester 6	Units
CDE4301 Innovation & Design Capstone or CDE4301A Ideas to Start-up	6	CDE4301 Innovation & Design Capstone or CDE4301A Ideas to Start-up	6
ME3115 Mechanics of Machines	4	Elective 4 for Second Major	4
ME3123 Applied Thermofluids	4	Technical Elective 2	4
ME3142 Feedback Control Systems	4	Technical Elective 3	4
Technical Elective 1	4		
Sub-total	22	Sub-total	18

Students are highly encouraged to complete the following courses before Semester 1 through advanced placement credits:

- CS1010E Programming Methodology (4 units)
- EG1311 Design and Make (4 units)
- MA1505 Mathematics I (4 units)

CFG2101 may be replaced by CDE2605 Undergraduate Research Opportunities Programme or CDE2605R Undergraduate Research Experience (UREx).

Sample study plan – JC-intake students or equivalent

(for students in Engineering Scholars Programme who plan to go for one-semester NOC programmes)

Semester 1	Units	Semester 2	Units
ME1103 Principles of Mechanics and Materials	4	ME2105 Principles of Mechatronics and Automation	4
MA1512 Differential Equations for Engineering	2	ME2102 Engineering Innovation and Modelling	4
MA1513 Linear Algebra with Differential Equations	2	GEA1000 Quantitative Reasoning with Data	4
PF1101A Project Management and Finance	4	DTK1234 Design Thinking	4
RVRC/UTCP course 1 (replaces GE)	4	RVRC/UTCP course 2 (replaces GE)	4
Elective 1 for Second Major (from List I)	4	CDE3301 Ideas to Proof-of-Concept	6
UE	4		
Sub-total	24	Sub-total	26

Semester 3	Units	Semester 4 – NOC	Units
ME2116 Strength of Materials	4	NOC	
ME2134 Fluids Mechanics I	4		
ME2162 Manufacturing Processes	4		
RVRC/UTCP course 3 (replaces CDE2501)	4		
Elective 2 for Second Major (from List I)	4		
CDE3301 Ideas to Proof-of-Concept	6		
Sub-total	26	Sub-total	20

Semester 5	Units	Semester 6	Units
CDE4301 Innovation & Design Capstone or CDE4301A Ideas to Start-up	6	CDE4301 Innovation & Design Capstone or CDE4301A Ideas to Start-up	6
EE2211 Introduction to Machine Learning or EE2213 Introduction to Artificial Intelligence	4	ME2121 Engineering Thermodynamics and Heat Transfer	4
ME3115 Mechanics of Machines	4	Technical Elective 1	4
ME3123 Applied Thermofluids	4	Technical Elective 2	4
ME3142 Feedback Control Systems	4	Technical Elective 3	4
RVRC/UTCP course 4 (replaces ES2631)	4	UE	4
Sub-total	26	Sub-total	26

Students are highly encouraged to complete the following courses before Semester 1 through advanced placement credits:

- CS1010E Programming Methodology (4 units)
- EG1311 Design and Make (4 units)
- MA1505 Mathematics I (4 units)

A one-semester NOC programme comprises the following courses (up to 20 units):

- ETP3201S Innovation & Enterprise Internship (12 units) – replaces EG3611A (10 units) and EG2401A (2 units)
- ETP3204S Innovation & Enterprise Internship Practicum (Short) (4 units) – replaces Elective 3 for Second Major (4 units)
- Entrepreneurship course (4 units) – replaces Elective 4 for Second Major (4 units)

Sample study plan – poly-intake students

Semester 1	Units	Semester 2	Units
ME1103 Principles of Mechanics and Materials or ME2105 Principles of Mechatronics and Automation	4	ME1103 Principles of Mechanics and Materials or ME2105 Principles of Mechatronics and Automation	4
ME2162 Manufacturing Processes	4	ME2121 Engineering Thermodynamics and Heat Transfer	4
CS1010E Programming Methodology	4	GEA1000 Quantitative Reasoning with Data	4
MA1301 Introductory Mathematics * (UE)	4	MA1512 Differential Equations for Engineering	2
Elective 1 for Second Major (from List I)	4	MA1513 Linear Algebra with Differential Equations	2
		PF1101A Project Management and Finance	4
		CDE3301 Ideas to Proof-of-Concept	6
Sub-total	20	Sub-total	26

Semester 3	Units	Semester 4	Units
ME2102 Engineering Innovation and Modelling	4	ME2116 Strength of Materials	4
ME3115 Mechanics of Machines	4	ME2134 Fluids Mechanics I	4
MA1505 Mathematics I *	4	CDE2501 Sustainable Systems for Liveable Cities	4
ES2631 Critique and Communication of Thinking and Design	4	EE2211 Introduction to Machine Learning or EE2213 Introduction to Artificial Intelligence	4
Elective 2 for Second Major (from List I)	4	EG2401A Engineering Professionalism	2
CDE3301 Ideas to Proof-of-Concept	6	GE	4
Sub-total	26	Sub-total	22

Semester 5	Units	Semester 6	Units
CDE4301 Innovation & Design Capstone or CDE4301A Ideas to Start-up	6	CDE4301 Innovation & Design Capstone or CDE4301A Ideas to Start-up	6
ME3123 Applied Thermofluids	4	Elective 3 for Second Major	4
ME3142 Feedback Control Systems	4	Elective 4 for Second Major	4
Technical Elective 1	4	Technical Elective 2	4
GE	4	Technical Elective 3	4
Sub-total	22	Sub-total	22

* Students who are exempted from MA1301 can take MA1505 in Semester 1.

Poly-intake students with accredited diplomas will receive the following exemptions:

- DTK1234 Design Thinking (4 units)
- EG1311 Design and Make (4 units)
- EG3611P Industrial Attachment (10 units)
- Unrestricted electives (20 units)