

**Bachelor of Arts (Industrial Design)
with Second Major in Innovation & Design**

Cohort AY2026/2027

Course Requirements	Units
Common Curriculum	
GEA1000 Quantitative Reasoning with Data ¹	4
GE: Critique and Expression ²	4
GE: Cultures and Connections ²	4
GE: Communities and Engagement ²	4
ID2116 Computing for Design <u>or</u> CS1010E Programming Methodology (or other variants) ²	4
CDE2212 AI for Design <u>or</u> HS1501 Artificial Intelligence and Society <u>or</u> EE2211 Introduction to Machine Learning <u>or</u> EE2213 Introduction to Artificial Intelligence	4
CDE2501 Sustainable Systems for Liveable Cities ²	4
DTK1234 Design Thinking	4
EG1311 Design and Make <u>or</u> EG1311BE Design and Make	4
PF1101A Project Management and Finance	4
Sub-total for Common Curriculum	40
Major Requirements	
ID1114 Design Fundamentals A	2
ID1115 Design Fundamentals B	2
ID1116 Design Fundamentals C	2
ID1117 Design Fundamentals D	2
ID1118 Design Fundamentals E	2
ID1119 Design Fundamentals F	2
ID2107 Design Platforms A	4
ID2108 Design Platforms B	4
ID2109 Design Platforms C	4
ID2110 Design Platforms D	4
ID3107 Design Platforms E	4
ID3108 Design Platforms F	4
ID4107 Design Platforms I	4
ID1121 Human-Centred Design (double-counted as Elective 1 for Second Major) ³	4
ID1223 Principles and Approaches to Design	4
ID2100 Visual Communication Principles and Practices	4
ID2200 Behavioural Design	4
ID2300 Computer Aided Design and Prototyping	4
ID2322 Materials and Production	4
ID3111 Discourse in Contemporary Design and Culture	4
ID4122 Design Entrepreneurship and Creative Leadership	4
CDE4301 Innovation & Design Capstone <u>or</u> CDE4301A Ideas to Start-up (over 2 consecutive semesters) ⁴	8
Sub-total for Major Requirements	80

NUS Innovation & Design Programme
College of Design and Engineering

Unrestricted Electives	
CDE3301 Ideas to Proof-of-Concept (over 2 consecutive semesters) ³	12
CDE4301 Innovation & Design Capstone <u>or</u> CDE4301A Ideas to Start-up (over 2 consecutive semesters)	4
Electives for Second Major ³	12
Other unrestricted electives	12
Sub-total for Unrestricted Electives	40
Total	160

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.
- ³ 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).
- ⁴ The 12 units for CDE4301/CDE4301A are counted towards 8 units for Integrated Project (in lieu of IE3109 Design Platforms G and ID3110 Design Platforms H) while 4 units are counted as unrestricted elective.

Sample study plan

(for students who are not going for NOC)

Semester 1	Units	Semester 2	Units
ID1114 Design Fundamentals A	2	ID1116 Design Fundamentals C	2
ID1115 Design Fundamentals B	2	ID1117 Design Fundamentals D	2
ID1223 Principles and Approaches to Design	4	ID1118 Design Fundamentals E	2
ID2100 Visual Communication Principles and Practices	4	ID1119 Design Fundamentals F	2
ID2300 Computer Aided Design and Prototyping	4	ID1121 Human-Centred Design (double-counted as Elective 1 for Second Major)	4
DTK1234 Design Thinking	4	ID2200 Behavioural Design	4
		EG1311 Design and Make or EG1311BE Design and Make	4
Sub-total	20	Sub-total	20

Semester 3	Units	Semester 4	Units
ID2107 Design Platforms A	4	ID2109 Design Platforms C	4
ID2108 Design Platforms B	4	ID2110 Design Platforms D	4
ID2116 Computing for Design	4	GEA1000 Quantitative Reasoning with Data	4
ID2322 Materials and Production	4	PF1101A Project Management and Finance	4
CDE2212 AI for Design	4	CDE3301 Ideas to Proof-of-Concept	6
Elective 2 for Second Major (from List I)	4		
Sub-total	24	Sub-total	22

Semester 5	Units	Semester 6 – can be used for SEP	Units
ID3107 Design Platforms E	4	Elective 3 for Second Major	4
ID3108 Design Platforms F	4	Elective 4 for Second Major	4
ID3111 Discourse in Contemporary Design and Culture	4	GE	4
CDE2501 Sustainable Systems for Liveable Cities	4	GE	4
CDE3301 Ideas to Proof-of-Concept	6	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
ID4107 Design Platforms I	4	UE	4
ID4122 Design Entrepreneurship and Creative Leadership	4	UE	4
UE	4		
Sub-total	18	Sub-total	14

Sample study plan

(for students who opt for a specialisation)

Semester 1	Units	Semester 2	Units
ID1114 Design Fundamentals A	2	ID1116 Design Fundamentals C	2
ID1115 Design Fundamentals B	2	ID1117 Design Fundamentals D	2
ID1223 Principles and Approaches to Design	4	ID1118 Design Fundamentals E	2
ID2100 Visual Communication Principles and Practices	4	ID1119 Design Fundamentals F	2
ID2300 Computer Aided Design and Prototyping	4	ID1121 Human-Centred Design (double-counted as Elective 1 for Second Major)	4
DTK1234 Design Thinking	4	ID2200 Behavioural Design	4
		EG1311 Design and Make or EG1311BE Design and Make	4
Sub-total	20	Sub-total	20

Semester 3	Units	Semester 4	Units
ID2107 Design Platforms A	4	ID2109 Design Platforms C	4
ID2108 Design Platforms B	4	ID2110 Design Platforms D	4
ID2116 Computing for Design	4	GEA1000 Quantitative Reasoning with Data	4
ID2322 Materials and Production	4	PF1101A Project Management and Finance	4
CDE2212 AI for Design	4	CDE3301 Ideas to Proof-of-Concept	6
Elective 2 for Second Major (from List I)	4		
Sub-total	24	Sub-total	22

Semester 5	Units	Semester 6 – can be used for SEP	Units
ID3107 Design Platforms E	4	Elective 3 for Second Major	4
ID3108 Design Platforms F	4	Elective 4 for Second Major	4
ID3111 Discourse in Contemporary Design and Culture	4	GE	4
CDE2501 Sustainable Systems for Liveable Cities	4	GE	4
CDE3301 Ideas to Proof-of-Concept	6	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
ID4107 Design Platforms I	4	ID4106 Design Thesis Project	12
ID4122 Design Entrepreneurship and Creative Leadership	4		
ID4121 Project Research	4		
Specialisation Elective	4		
Sub-total	22	Sub-total	18

Sample study plan

(for students in one-semester NOC programmes)

Semester 1	Units	Semester 2	Units
ID1114 Design Fundamentals A	2	ID1116 Design Fundamentals C	2
ID1115 Design Fundamentals B	2	ID1117 Design Fundamentals D	2
ID1223 Principles and Approaches to Design	4	ID1118 Design Fundamentals E	2
ID2100 Visual Communication Principles and Practices	4	ID1119 Design Fundamentals F	2
ID2300 Computer Aided Design and Prototyping	4	ID1121 Human-Centred Design (double-counted as Elective 1 for Second Major)	4
DTK1234 Design Thinking	4	ID2200 Behavioural Design	4
		EG1311 Design and Make or EG1311BE Design and Make	4
Sub-total	20	Sub-total	20

Semester 3	Units	Semester 4	Units
ID2107 Design Platforms A	4	ID2109 Design Platforms C	4
ID2108 Design Platforms B	4	ID2110 Design Platforms D	4
ID2116 Computing for Design	4	GEA1000 Quantitative Reasoning with Data	4
ID2322 Materials and Production	4	PF1101A Project Management and Finance	4
CDE2212 AI for Design	4	CDE3301 Ideas to Proof-of-Concept	6
Elective 2 for Second Major (from List I)	4		
Sub-total	24	Sub-total	22

Semester 5	Units	Semester 6 – NOC	Units
ID3107 Design Platforms E	4	NOC	
ID3108 Design Platforms F	4		
ID3111 Discourse in Contemporary Design and Culture	4		
CDE2501 Sustainable Systems for Liveable Cities	4		
CDE3301 Ideas to Proof-of-Concept	6		
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
ID4107 Design Platforms I	4	GE	4
ID4122 Design Entrepreneurship and Creative Leadership	4	GE	4
GE	4		
Sub-total	18	Sub-total	14

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

- ETP3201S Innovation & Enterprise Internship (12 units) – counted as UE (12 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)