

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

Cohort AY2024/2025

Course Requirements	Units
Common Curriculum	
GEA1000 Quantitative Reasoning with Data	4
GE: Critique and Expression ¹	4
GE: Cultures and Connections ¹	4
GE: Communities and Engagement ¹	4
AR2524 Spatial Computational Thinking	4
CDE2501 Liveable Cities ²	4
CDE2212 Artificial Intelligence for Design	4
EG1311 Design and Make	4
IE2141 Systems Thinking and Dynamics	4
PF1101 Fundamentals of Project Management	4
AR3102 Design 6	8
Sub-total for Common Curriculum	48
Major Requirements	
AR1101A Design 1 ³	8
AR1102 Design 2	8
AR2101 Design 3	8
AR2102 Design 4	8
AR3101 Design 5	8
AR1328A Architectural Materials and Construction	4
AR1329 Climate, Ecology & Architecture ⁴	4
AR2227 History and Theory of Architecture I	4
AR2228 History and Theory of Architecture II	4
AR2328A Architectural Tectonics & Structural	4
AR3223 Introduction to Urbanism	4
AR3328 Architectural Structures and Forces	4
AR3722 Sustainable Environmental System	4
Sub-total for Major Requirements	72
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 Ideas to Proof-of-Concept (over 2 consecutive semesters)	12
CDE4301 Innovation & Design Capstone <u>or</u> CDE4301A Ideas to Start-up (over 2 consecutive semesters)	12
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 AR2524 and CDE2501 fulfil Digital Literacy and Singapore Studies, respectively, for Architecture students.

³ AR1101A replaces DTK1234 Design Thinking and CDE2000 Creating Narratives in the Common Curriculum.

⁴ AR1329 fulfils the Sustainable Future pillar in the Common Curriculum.

Recommended semester schedule

Semester 1	Units	Semester 2	Units
AR1101A Design 1	8	AR1102 Design 2	8
GEA1000 Quantitative Reasoning with Data	4	AR1328A Architectural Materials and Construction	4
EG1311 Design & Make	4	AR2227 History and Theory of Architecture I	4
GE	4	AR2524 Spatial Computational Thinking	4
		Group A/B course for Second Major	4
Sub-total	20	Sub-total	24

Semester 3	Units	Semester 4	Units
AR2101 Design 3	8	AR2102 Design 4	8
AR2228 History and Theory of Architecture II	4	AR1329 Climate, Ecology & Architecture	4
AR2328A Architectural Tectonics & Structural	4	IE2141 Systems Thinking & Dynamics	4
CDE2212 Artificial Intelligence for Design	4	CDE3301 Ideas to Proof-of-Concept	6
Group A/B course for Second Major	4		
Sub-total	24	Sub-total	22

Semester 5	Units	Semester 6 – can be used for SEP	Units
AR3101 Design 5	8	AR3102 Design 6	8
AR3223 Introduction to Urbanism	4	AR3722 Sustainable Environmental System	4
AR3328 Architectural Structures and Forces	4	CDE2501 Liveable Cities	4
CDE3301 Ideas to Proof-of-Concept	6	Innovation & Enterprise Elective 1	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
Innovation & Enterprise Elective 2	4	PF1101 Fundamentals of Project Management	4
GE *	4	GE *	4
Sub-total	14	Sub-total	14

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

Recommended semester schedule
(for students in year-long NOC programmes)

Semester 1	Units	Semester 2	Units
AR1101A Design 1	8	AR1102 Design 2	8
GEA1000 Quantitative Reasoning with Data	4	AR1328A Architectural Materials and Construction	4
EG1311 Design & Make	4	AR2227 History and Theory of Architecture I	4
GE	4	AR2524 Spatial Computational Thinking	4
		Group A/B course for Second Major	4
Sub-total	20	Sub-total	24

Semester 3	Units	Semester 4	Units
AR2101 Design 3	8	AR2102 Design 4	8
AR2228 History and Theory of Architecture II	4	AR1329 Climate, Ecology & Architecture	4
AR2328A Architectural Tectonics & Structural	4	IE2141 Systems Thinking & Dynamics	4
CDE2212 Artificial Intelligence for Design	4	CDE3301 Ideas to Proof-of-Concept	6
Group A/B course for Second Major	4	GE	4
Sub-total	24	Sub-total	26

Semester 5	Units	Semester 6 – NOC	Units
AR3101 Design 5	8	NOC	
AR3223 Introduction to Urbanism	4		
AR3328 Architectural Structures and Forces	4		
CDE2501 Liveable Cities	4		
CDE3301 Ideas to Proof-of-Concept	6		
Sub-total	26	Sub-total	22

Semester 7 – NOC	Units	Semester 8	Units
NOC		AR3102 Design 6	8
		AR3722 Sustainable Environmental System	4
		PF1101 Fundamentals of Project Management	4
		GE	4
Sub-total	20	Sub-total	20

A year-long NOC programme comprises the following courses:

- ETP3206L Innovation & Enterprise Internship (16 units) – counted as UE (16 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)
- 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)

Recommended semester schedule
(for students in one-semester NOC programmes)

Semester 1	Units	Semester 2	Units
AR1101A Design 1	8	AR1102 Design 2	8
GEA1000 Quantitative Reasoning with Data	4	AR1328A Architectural Materials and Construction	4
EG1311 Design & Make	4	AR2227 History and Theory of Architecture I	4
GE	4	AR2524 Spatial Computational Thinking	4
		Group A/B course for Second Major	4
Sub-total	20	Sub-total	24

Semester 3	Units	Semester 4	Units
AR2101 Design 3	8	AR2102 Design 4	8
AR2228 History and Theory of Architecture II	4	AR1329 Climate, Ecology & Architecture	4
AR2328A Architectural Tectonics & Structural	4	IE2141 Systems Thinking & Dynamics	4
CDE2212 Artificial Intelligence for Design	4	CDE3301 Ideas to Proof-of-Concept	6
Group A/B course for Second Major	4		
Sub-total	24	Sub-total	22

Semester 5	Units	Semester 6 – NOC	Units
AR3101 Design 5	8	NOC	
AR3223 Introduction to Urbanism	4		
AR3328 Architectural Structures and Forces	4		
CDE3301 Ideas to Proof-of-Concept	6		
Sub-total	22	Sub-total	22

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
CDE2501 Liveable Cities	4	AR3102 Design 6	8
GE	4	AR3722 Sustainable Environmental System	4
GE	4	PF1101 Fundamentals of Project Management	4
Sub-total	18	Sub-total	22

A one-semester NOC programme comprises the following courses:

- ETP3201L Innovation & Enterprise Internship (12 units) – counted as UE (12 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)