

**Bachelor of Science  
with Minor in Innovation & Design**

**Cohorts AY2021/2022 and AY2022/2023**

<b>Modular Requirements</b>	<b>Modular Credits (MCs)</b>
<b>Common Curriculum</b>	
DTK1234 Design Thinking	4
SP1541 Exploring Science Communication through Popular Science <sup>1</sup>	4
GEA1000 Quantitative Reasoning with Data <sup>1,2</sup>	4
GEI1001 Computational Reasoning <sup>1,2</sup>	4
HS1501 Artificial Intelligence and Society	4
Communities and Engagement <sup>1</sup>	4
Integrated Asian Studies: HSA1000 Asian Interconnections <sup>1</sup>	4
Integrated Humanities: HSH1000 The Human Condition <sup>1</sup>	4
Integrated Social Sciences: HSS1000 Understanding Social Complexity <sup>1</sup>	4
Scientific Inquiry I: HSI1000 How Science Works, Why Science Works <sup>1</sup>	4
Scientific Inquiry II <sup>1</sup>	4
Interdisciplinary Module I <sup>1</sup>	4
Interdisciplinary Module II <sup>1</sup>	4
<b>Sub-total for Common Curriculum</b>	<b>52</b>
<b>Major Requirements</b>	
Major gateway module	4
Core modules and electives	56
<b>Sub-total for Major Requirements</b>	<b>60</b>
<b>Unrestricted Electives</b>	
Group A module for Minor	4
Group B module for Minor	4
EG3301R DCP Project (over 2 consecutive semesters)	12
Other unrestricted electives	28
<b>Sub-total for Unrestricted Electives</b>	<b>48</b>
<b>Total</b>	<b>160</b>

Notes:

- <sup>1</sup> Students may read equivalent modules in USP/NUSC, UTCP, and RVRC.
- <sup>2</sup> Students in some majors may read other modules in lieu of these.

**Recommended semester schedule**

(for students who read DTK1234 in Semester 1 and may want to upgrade to a Second Major)

Semester 1	MCs	Semester 2	MCs
HSH1000 The Human Condition or HSS1000 Understanding Social Complexity	4	HSH1000 The Human Condition or HSS1000 Understanding Social Complexity	4
HSA1000 Asian Interconnections or HSI1000 How Science Works, Why Science Works	4	HSA1000 Asian Interconnections or HSI1000 How Science Works, Why Science Works	4
DTK1234 Design Thinking	4	GEA1000 Quantitative Reasoning with Data	4
Major 1 (gateway module)	4	Major 2	4
UE	4	Group A module for Minor	4
<b>Sub-total</b>	<b>20</b>	<b>Sub-total</b>	<b>20</b>

Semester 3	MCs	Semester 4	MCs
GEI1001 Computational Reasoning	4	HS1501 Artificial Intelligence and Society	4
SP1541 Exploring Science Communication through Popular Science	4	Communities and Engagement	4
Scientific Inquiry II	4	Major 4	4
Major 3	4	Major 5	4
Group B module for Minor	4	EG3301R DCP Project	6
<b>Sub-total</b>	<b>20</b>	<b>Sub-total</b>	<b>22</b>

Semester 5	MCs	Semester 6 – can be used for SEP	MCs
EG3301R DCP Project	6	Interdisciplinary Module II	4
Interdisciplinary Module I	4	Major 9	4
Major 6	4	Major 10	4
Major 7	4	Major 11	4
Major 8	4	UE	4
<b>Sub-total</b>	<b>22</b>	<b>Sub-total</b>	<b>20</b>

Semester 7	MCs	Semester 8	MCs
Major 12	4	Major 14	4
Major 13	4	Major 15	4
UE	4	UE	4
UE	4	UE	4
UE	4		
<b>Sub-total</b>	<b>20</b>	<b>Sub-total</b>	<b>16</b>

**Recommended semester schedule**

(for students who read DTK1234 in Semester 2 and may want to upgrade to a Second Major)

Semester 1	MCs	Semester 2	MCs
HSH1000 The Human Condition or HSS1000 Understanding Social Complexity	4	HSH1000 The Human Condition or HSS1000 Understanding Social Complexity	4
HSA1000 Asian Interconnections or HSI1000 How Science Works, Why Science Works	4	HSA1000 Asian Interconnections or HSI1000 How Science Works, Why Science Works	4
GEA1000 Quantitative Reasoning with Data	4	DTK1234 Design Thinking	4
Major 1 (gateway module)	4	Major 2	4
UE	4	UE	4
<b>Sub-total</b>	<b>20</b>	<b>Sub-total</b>	<b>20</b>

Semester 3	MCs	Semester 4	MCs
GEI1001 Computational Reasoning	4	HS1501 Artificial Intelligence and Society	4
SP1541 Exploring Science Communication through Popular Science	4	Communities and Engagement	4
Scientific Inquiry II	4	Major 4	4
Major 3	4	Major 5	4
Group A module for Minor	4	EG3301R DCP Project	6
<b>Sub-total</b>	<b>20</b>	<b>Sub-total</b>	<b>22</b>

Semester 5	MCs	Semester 6 – can be used for SEP	MCs
EG3301R DCP Project	6	Interdisciplinary Module II	4
Group B module for Minor	4	Major 8	4
Interdisciplinary Module I	4	Major 9	4
Major 6	4	Major 10	4
Major 7	4	UE	4
<b>Sub-total</b>	<b>22</b>	<b>Sub-total</b>	<b>20</b>

Semester 7	MCs	Semester 8	MCs
Major 11	4	Major 14	4
Major 12	4	Major 15	4
Major 13	4	UE	4
UE	4	UE	4
UE	4		
<b>Sub-total</b>	<b>20</b>	<b>Sub-total</b>	<b>16</b>

**Recommended semester schedule**

(for students who read DTK1234 in Semester 1/2 and not planning to upgrade to a Second Major)

Semester 1	MCs	Semester 2	MCs
HSH1000 The Human Condition or HSS1000 Understanding Social Complexity	4	HSH1000 The Human Condition or HSS1000 Understanding Social Complexity	4
HSA1000 Asian Interconnections or HSI1000 How Science Works, Why Science Works	4	HSA1000 Asian Interconnections or HSI1000 How Science Works, Why Science Works	4
GEA1000 Quantitative Reasoning with Data or DTK1234 Design Thinking	4	GEA1000 Quantitative Reasoning with Data or DTK1234 Design Thinking	4
Major 1 (gateway module)	4	Major 2	4
UE	4	UE	4
<b>Sub-total</b>	<b>20</b>	<b>Sub-total</b>	<b>20</b>

Semester 3	MCs	Semester 4	MCs
GEI1001 Computational Reasoning	4	HS1501 Artificial Intelligence and Society	4
SP1541 Exploring Science Communication through Popular Science	4	Communities and Engagement	4
Scientific Inquiry II	4	Major 5	4
Major 3	4	Major 6	4
Major 4	4	Group A module for Minor	4
<b>Sub-total</b>	<b>20</b>	<b>Sub-total</b>	<b>20</b>

Semester 5	MCs	Semester 6	MCs
Interdisciplinary Module I	4	Interdisciplinary Module II	4
Major 7	4	Major 10	4
Major 8	4	Major 11	4
Major 9	4	Major 12	4
Group B module for Minor	4	EG3301R DCP Project	6
<b>Sub-total</b>	<b>20</b>	<b>Sub-total</b>	<b>22</b>

Semester 7	MCs	Semester 8	MCs
EG3301R DCP Project	6	Major 15	4
Major 13	4	UE	4
Major 14	4	UE	4
UE	4	UE	4
		UE	4
<b>Sub-total</b>	<b>18</b>	<b>Sub-total</b>	<b>20</b>