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## Research Pathway

Year 1				
S1	CHEM ENG 7055 Materials Science and Engineering <input type="checkbox"/>	CHEM ENG 7110 Fundamentals of Materials <input type="checkbox"/>	▲Materials Engineering Elective (see elective table) <input type="checkbox"/>	Materials Engineering Elective (see elective table) <input type="checkbox"/>
S2	CHEM ENG 7101 Materials Characterisation <input type="checkbox"/>	CHEM ENG 7102 Computation for Materials Engineering <input type="checkbox"/>	MATHS 7025 Research Methods and Statistics <input type="checkbox"/>	Materials Engineering Elective (see elective table) <input type="checkbox"/>
Year 2				
S1	CHEM ENG 7120A Materials Engineering Research Project Part B (6 units) <input type="checkbox"/>		Materials Engineering Elective (see elective table) <input type="checkbox"/>	Materials Engineering Elective (see elective table) <input type="checkbox"/>
S2	CHEM ENG 7120B Materials Engineering Research Project Part A (6 units) <input type="checkbox"/>		Materials Engineering Elective (see elective table) <input type="checkbox"/>	Materials Engineering Elective (see elective table) <input type="checkbox"/>

Core Courses	Elective (see table)	Pathway Course
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Materials Engineering Elective					
S1	CHEM ENG 7104	Advanced Optical Engineering of Materials	S2	CHEM ENG 7038	Process Plant Safety and Risk Assessment
	CHEM ENG 7106	Materials Engineering for Energy		CHEM ENG 7103	Engineering of 2D Materials
	CHEM ENG 7107	Engineering of Semiconductor Materials		CHEM ENG 7105	Materials Engineering for Catalysis
	CHEM ENG 7108	Quantum Materials		CHEM ENG 7109	Advanced Engineering of Biomaterials
	ENG 7057	Communication & Critical Thinking		ENG 7057	Communication & Critical Thinking
	PROJMGNT 5021	Project Management Fundamentals		PROJMGNT 5021	Project Management Fundamentals

### NOTES

▲Unless exempted by the Faculty, all international students are required to undertake a specialist course ENG 7057 Communication & Critical Thinking. This course must be completed in the first semester of study and will be presented in lieu of a Foundation elective

### Information and Enrolment Advice:

Ask ECMS

Email: [askecms@adelaide.edu.au](mailto:askecms@adelaide.edu.au)

Website: <https://ecms.adelaide.edu.au/study-with-us/student-support>

**Program Rules:** For academic program rules please refer to the following website:

<https://calendar.adelaide.edu.au/faculty/ecms>

## Industry Pathway

Year 1								
S1	CHEM ENG 7055 Materials Science and Engineering	<input type="checkbox"/>	CHEM ENG 7110 Fundamentals of Materials	<input type="checkbox"/>	▲Materials Engineering Elective (see elective table)	<input type="checkbox"/>	Materials Engineering Elective (see elective table)	<input type="checkbox"/>
S2	CHEM ENG 7101 Materials Characterisation	<input type="checkbox"/>	CHEM ENG 7102 Computation for Materials Engineering	<input type="checkbox"/>	MATHS 7025 Research Methods and Statistics	<input type="checkbox"/>	Materials Engineering Elective (see elective table)	<input type="checkbox"/>
Year 2								
S1	CHEM ENG 7122A Materials Engineering Industry Project Part B (6 units)	<input type="checkbox"/>			Materials Engineering Elective (see elective table)	<input type="checkbox"/>	Materials Engineering Elective (see elective table)	<input type="checkbox"/>
S2	CHEM ENG 7122B Materials Engineering Industry Project Part A (6 units)	<input type="checkbox"/>			Materials Engineering Elective (see elective table)	<input type="checkbox"/>	Materials Engineering Elective (see elective table)	<input type="checkbox"/>

Core Courses	Elective (see table)	Pathway Course
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Materials Engineering Elective			
S1	CHEM ENG 7104	Advanced Optical Engineering of Materials	S2
	CHEM ENG 7106	Materials Engineering for Energy	
	CHEM ENG 7107	Engineering of Semiconductor Materials	
	CHEM ENG 7108	Quantum Materials	
	ENG 7057	Communication & Critical Thinking	
PROJMGNT 5021	Project Management Fundamentals	CHEM ENG 7038	Process Plant Safety and Risk Assessment
		CHEM ENG 7103	Engineering of 2D Materials
		CHEM ENG 7105	Materials Engineering for Catalysis
		CHEM ENG 7109	Advanced Engineering of Biomaterials
		ENG 7057	Communication & Critical Thinking
		PROJMGNT 5021	Project Management Fundamentals

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## Research Pathway (Extended)

Year 1								
S1	CHEM ENG 7055 Materials Science and Engineering	<input type="checkbox"/>	CHEM ENG 7110 Fundamentals of Materials	<input type="checkbox"/>	Materials Engineering Elective (see elective table)	<input type="checkbox"/>	Materials Engineering Elective (see elective table)	<input type="checkbox"/>
S2	CHEM ENG 7101 Materials Characterisation	<input type="checkbox"/>	CHEM ENG 7102 Computation for Materials Engineering	<input type="checkbox"/>	MATHS 7025 Research Methods and Statistics	<input type="checkbox"/>	Materials Engineering Elective (see elective table)	<input type="checkbox"/>
Year 2								
S1	CHEM ENG 7121A Materials Engineering Extended Research Project Part B (9 units)					<input type="checkbox"/>	Materials Engineering Elective (see elective table)	<input type="checkbox"/>
S2	CHEM ENG 7121B Materials Engineering Extended Research Project Part A (9 units)					<input type="checkbox"/>	Materials Engineering Elective (see elective table)	<input type="checkbox"/>

Core Courses	Elective (see table)	Pathway Course
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Materials Engineering Elective					
S1	CHEM ENG 7104	Advanced Optical Engineering of Materials	S2	CHEM ENG 7038	Process Plant Safety and Risk Assessment
	CHEM ENG 7106	Materials Engineering for Energy		CHEM ENG 7103	Engineering of 2D Materials
	CHEM ENG 7107	Engineering of Semiconductor Materials		CHEM ENG 7105	Materials Engineering for Catalysis
	CHEM ENG 7108	Quantum Materials		CHEM ENG 7109	Advanced Engineering of Biomaterials
	ENG 7057	Communication & Critical Thinking		ENG 7057	Communication & Critical Thinking
PROJMGNT 5021	Project Management Fundamentals	PROJMGNT 5021	Project Management Fundamentals		

### NOTES

^Unless exempted by the Faculty, all international students are required to undertake a specialist course ENG 7057 Communication & Critical Thinking. This course must be completed in the first semester of study and will be presented in lieu of a Foundation elective

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Website: <https://ecms.adelaide.edu.au/study-with-us/student-support>

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