

## Master of Engineering (Materials): Research Pathway

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

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

### Further Information and Enrolment Advice

Faculty of Engineering, Computer and Mathematical Sciences

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

[www.ecms.adelaide.edu.au](http://www.ecms.adelaide.edu.au)

## Engineering Electives Table

CHOOSE FROM THE FOLLOWING ELECTIVES				
S1	CHEM ENG 7104 Advanced Optical Engineering of Materials <input type="checkbox"/>	PROJMGNT 5021 Project Management Fundamentals <input type="checkbox"/>	ELEC ENG 7057 Engineering Communication & Critical Thinking <input type="checkbox"/>	CHEM ENG 7107 Engineering of Semiconductor Materials * <input type="checkbox"/>
	CHEM ENG 7108 Quantum Materials * <input type="checkbox"/>			
S2	ELEC ENG 7057 Engineering Communication & Critical Thinking <input type="checkbox"/>	MATHS 7025 Research Methods and Statistics <input type="checkbox"/>	PROJMGNT 5021 Project Management Fundamentals <input type="checkbox"/>	CHEM ENG 7038 Process Plant Safety and Risk Assessment <input type="checkbox"/>
	CHEM ENG 7103 Engineering of 2D Materials ** <input type="checkbox"/>	CHEM ENG 7105 Materials Engineering for Catalysis ** <input type="checkbox"/>	CHEM ENG 7106 Materials Engineering for Energy ** <input type="checkbox"/>	CHEM ENG 7109 Advanced Engineering of Biomaterials ** <input type="checkbox"/>
	CHEM ENG 7111 Safety and Risk in Materials Engineering ** <input type="checkbox"/>			

\* Available from Semester 1, 2021

\*\* Available from Semester 2, 2020.

## Master of Engineering (Materials): Industry Pathway

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

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## Engineering Electives Table

CHOOSE FROM THE FOLLOWING ELECTIVES				
S1	CHEM ENG 7104 Advanced Optical Engineering of Materials <input type="checkbox"/>	PROJMGNT 5021 Project Management Fundamentals <input type="checkbox"/>	ELEC ENG 7057 Engineering Communication & Critical Thinking <input type="checkbox"/>	CHEM ENG 7107 Engineering of Semiconductor Materials * <input type="checkbox"/>
	CHEM ENG 7108 Quantum Materials * <input type="checkbox"/>			
S2	ELEC ENG 7057 Engineering Communication & Critical Thinking <input type="checkbox"/>	MATHS 7025 Research Methods and Statistics <input type="checkbox"/>	PROJMGNT 5021 Project Management Fundamentals <input type="checkbox"/>	CHEM ENG 7038 Process Plant Safety and Risk Assessment <input type="checkbox"/>
	CHEM ENG 7103 Engineering of 2D Materials ** <input type="checkbox"/>	CHEM ENG 7105 Materials Engineering for Catalysis ** <input type="checkbox"/>	CHEM ENG 7106 Materials Engineering for Energy ** <input type="checkbox"/>	CHEM ENG 7109 Advanced Engineering of Biomaterials ** <input type="checkbox"/>
	CHEM ENG 7111 Safety and Risk in Materials Engineering ** <input type="checkbox"/>			

\* Available from Semester 1, 2021

\*\* Available from Semester 2, 2020.

## Master of Engineering (Materials): 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"/>	Engineering Elective <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
S2	CHEM ENG 7101 Advanced Characterisation for Materials Engineering <input type="checkbox"/>	CHEM ENG 7102 Computation for Materials Engineering <input type="checkbox"/>	MATHS 7025 Research Methods and Statistics <input type="checkbox"/>	Engineering Elective <input type="checkbox"/>
Year 2				
S1	<u>Research Pathway (Extended)</u> CHEM ENG 7121B Materials Engineering Extended Research Project Part B (9 units) <input type="checkbox"/>			Engineering Elective <input type="checkbox"/>
S2	<u>Research Pathway (Extended)</u> CHEM ENG 7121A Materials Engineering Extended Research Project Part A (9 units) <input type="checkbox"/>			Engineering Elective <input type="checkbox"/>

Unless exempted by the Faculty, all international students are required to undertake a specialist course ELEC ENG 7057 Engineering 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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## Engineering Electives Table

CHOOSE FROM THE FOLLOWING ELECTIVES				
S1	CHEM ENG 7104 Advanced Optical Engineering of Materials <input type="checkbox"/>	PROJMGNT 5021 Project Management Fundamentals <input type="checkbox"/>	ELEC ENG 7057 Engineering Communication & Critical Thinking <input type="checkbox"/>	CHEM ENG 7107 Engineering of Semiconductor Materials * <input type="checkbox"/>
	CHEM ENG 7108 Quantum Materials * <input type="checkbox"/>			
S2	ELEC ENG 7057 Engineering Communication & Critical Thinking <input type="checkbox"/>	MATHS 7025 Research Methods and Statistics <input type="checkbox"/>	PROJMGNT 5021 Project Management Fundamentals <input type="checkbox"/>	CHEM ENG 7038 Process Plant Safety and Risk Assessment <input type="checkbox"/>
	CHEM ENG 7103 Engineering of 2D Materials ** <input type="checkbox"/>	CHEM ENG 7105 Materials Engineering for Catalysis ** <input type="checkbox"/>	CHEM ENG 7106 Materials Engineering for Energy ** <input type="checkbox"/>	CHEM ENG 7109 Advanced Engineering of Biomaterials ** <input type="checkbox"/>
	CHEM ENG 7111 Safety and Risk in Materials Engineering ** <input type="checkbox"/>			

\* Available from Semester 1, 2021

\*\* Available from Semester 2, 2020.