THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences
2020 Study Plan

Master of Materials Engineering – All Pathways

Semester 1 Start

Master of Materials Engineering – Research Pathway
Master of Materials Engineering – Industry Pathway
Master of Materials Engineering – Research Pathway (Extended)

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences
2020 Study Plan

Master of Materials Engineering - Research Pathway

Year 1				
S1	CHEM ENG 7055 Materials Science and Engineering ☐	CHEM ENG 7110 Fundamentals of Materials ☐	^Materials Engineering Elective (see elective table) ☐	Materials Engineering Elective (see elective table) ☐
S2	CHEM ENG 7101 Advanced Characterisation for Materials Engineering ☐	CHEM ENG 7102 Computation for Materials Engineering ☐	MATHS 7025 Research Methods and Statistics ☐	Materials Engineering Elective (see elective table) ☐
Year 2				
S1	Research Pathway CHEM ENG 7120A Materials Engineering Research Project Part B (6 units) ☐		Materials Engineering Elective (see elective table) ☐	Materials Engineering Elective (see elective table) ☐
S2	Research Pathway CHEM ENG 7120B Materials Engineering Research Project Part A (6 units) ☐		Materials Engineering Elective (see elective table) ☐	Materials Engineering Elective (see elective table) ☐

Core Courses

Elective Table

CHOOSE FROM THE FOLLOWING MATERIALS ENGINEERING ELECTIVES				
S1	CHEM ENG 7104 Advanced Optical Engineering of Materials ☐	PROJMGNT 5021 Project Management Fundamentals ☐	ELEC ENG 7057 Engineering Communication & Critical Thinking ☐	CHEM ENG 7107 Engineering of Semiconductor Materials * ☐
	CHEM ENG 7108 Quantum Materials * ☐			
S2	ELEC ENG 7057 Engineering Communication & Critical Thinking ☐	MATHS 7025 Research Methods and Statistics ☐	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 7106 Materials Engineering for Energy ** ☐	CHEM ENG 7109 Advanced Engineering of Biomaterials ** ☐
	CHEM ENG 7111 Safety and Risk in Materials Engineering ** ☐			

Faculty of Engineering, Computer and Mathematical Sciences
2020 Study Plan

NOTES

^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

*Available from Semester 1, 2021

**Available from Semester 2, 2020.

Information and Enrolment Advice:
Ask ECMS
Email: 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:
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Faculty of Engineering, Computer and Mathematical Sciences
2020 Study Plan

Master of Materials Engineering - Industry Pathway

Year 1				
S1	CHEM ENG 7055 Materials Science and Engineering ☐	CHEM ENG 7110 Fundamentals of Materials ☐	^Materials Engineering Elective (see elective table) ☐	Materials Engineering Elective (see elective table) ☐
S2	CHEM ENG 7101 Advanced Characterisation for Materials Engineering ☐	CHEM ENG 7102 Computation for Materials Engineering ☐	MATHS 7025 Research Methods and Statistics ☐	Materials Engineering Elective (see elective table) ☐
Year 2				
S1	Industry Pathway CHEM ENG 7122A Materials Engineering Industry Project Part B (6 units) ☐		Materials Engineering Elective (see elective table) ☐	Materials Engineering Elective (see elective table) ☐
S2	Industry Pathway CHEM ENG 7122B Materials Engineering Industry Project Part A (6 units) ☐		Materials Engineering Elective (see elective table) ☐	Materials Engineering Elective (see elective table) ☐

Core Courses

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences
2020 Study Plan

Elective Table

CHOOSE FROM THE FOLLOWING MATERIALS ENGINEERING ELECTIVES				
S1	CHEM ENG 7104 Advanced Optical Engineering of Materials ☐	PROJMGNT 5021 Project Management Fundamentals ☐	ELEC ENG 7057 Engineering Communication & Critical Thinking ☐	CHEM ENG 7107 Engineering of Semiconductor Materials * ☐
	CHEM ENG 7108 Quantum Materials * ☐			
S2	ELEC ENG 7057 Engineering Communication & Critical Thinking ☐	MATHS 7025 Research Methods and Statistics ☐	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 7106 Materials Engineering for Energy ** ☐	CHEM ENG 7109 Advanced Engineering of Biomaterials ** ☐
	CHEM ENG 7111 Safety and Risk in Materials Engineering ** ☐			

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Faculty of Engineering, Computer and Mathematical Sciences
2020 Study Plan

Master of Materials Engineering - Research Pathway (Extended)

Year 1				
S1	CHEM ENG 7055 Materials Science and Engineering ☐	CHEM ENG 7110 Fundamentals of Materials ☐	^Materials Engineering Elective (see elective table) ☐	Materials Engineering Elective (see elective table) ☐
S2	CHEM ENG 7101 Advanced Characterisation for Materials Engineering ☐	CHEM ENG 7102 Computation for Materials Engineering ☐	MATHS 7025 Research Methods and Statistics ☐	Materials Engineering Elective (see elective table) ☐
Year 2				
S1	CHEM ENG 7121A Materials Engineering Extended Research Project Part B (9 units) ☐			Materials Engineering Elective (see elective table) ☐
S2	CHEM ENG 7121B Materials Engineering Extended Research Project Part A (9 units) ☐			Materials Engineering Elective (see elective table) ☐

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Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

Elective Table

CHOOSE FROM THE FOLLOWING MATERIALS ENGINEERING ELECTIVES				
S1	CHEM ENG 7104 Advanced Optical Engineering of Materials ☐	PROJMGNT 5021 Project Management Fundamentals ☐	ELEC ENG 7057 Engineering Communication & Critical Thinking ☐	CHEM ENG 7107 Engineering of Semiconductor Materials * ☐
	CHEM ENG 7108 Quantum Materials * ☐			
S2	ELEC ENG 7057 Engineering Communication & Critical Thinking ☐	MATHS 7025 Research Methods and Statistics ☐	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 7106 Materials Engineering for Energy ** ☐	CHEM ENG 7109 Advanced Engineering of Biomaterials ** ☐
	CHEM ENG 7111 Safety and Risk in Materials Engineering ** ☐			

NOTES

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