

Bachelor of Engineering (Honours) (Mechanical) and Bachelor of Arts Study Plans — Semester 2 Start

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Bachelor of Engineering (Honours) (Mechanical) and Bachelor of Arts – Study Plan Notes

Program structure

This is a five-year program with electives commencing in the second year. The final year contains the two-semester Research Project capstone course. Students may follow study plans specifying electives to complete a Major within the program. Successful completion of the Program with a Major requires completion of all courses specified in the that Major's study plan. All Majors consist of the same number of units and fill available electives slots, with three remaining to be chosen by the student.

Internships

All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies. The 8 weeks of internship must be supervised by a qualified engineer and may be completed in one placement or a series of placements. The Faculty recommends students undertake internships upon commencement of third year engineering courses. Internships are self-sourced and resources are available through [Careers Service](#). Register with CareerHub to access a database where opportunities are posted.

Arts

Students must complete a major in accordance with the academic program rules for the Bachelor of Arts: <https://calendar.adelaide.edu.au/faculty/arts>

General Electives

How to choose an elective course in your area of interest?

Please refer to the steps via the link: <https://ecms.adelaide.edu.au/study-with-us/student-support/enrolment>

Program Rules

For academic program rules please refer to the following website: <https://calendar.adelaide.edu.au/faculty/ecms>

Information and Enrolment Advice

Ask ECMS

Email: askecms@adelaide.edu.au

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

Faculty of Engineering, Computer and Mathematical Sciences

2021 Study Plan

Bachelor of Engineering (Honours) (Mechanical) and Bachelor of Arts

Year 1				
S 2	MATHS 1011 Mathematics IA <input type="checkbox"/>	[^] ENG 1001 Introduction to Engineering <input type="checkbox"/>	CHEM ENG 1009 Materials I <input type="checkbox"/>	TECH 1006 Engineering Mechanics Technology <input type="checkbox"/>
Year 2				
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics <input type="checkbox"/>			
S 1	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	MECH ENG 2100 Design Practice <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	MECH ENG 2002 Stress Analysis & Design <input type="checkbox"/>	MECH ENG 2019 Dynamics & Control I <input type="checkbox"/>	ARTS 1007 The Enquiring Mind: Freedom and Media <input type="checkbox"/>
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/>	Major course / Elective Year 2 (see elective table) OR General Elective <input type="checkbox"/>	Arts Major Level I <input type="checkbox"/>
S 2	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>	MECH ENG 3111 Acoustics and Vibrations <input type="checkbox"/>		Arts Major Level I <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note on page 2.				
Year 4				
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	Major course / Elective Year 3 (see elective table) OR General Elective <input type="checkbox"/>	Arts Elective Level II <input type="checkbox"/>	Arts Major Level II <input type="checkbox"/>
S 2	ENG 3004 Systems Engineering & Industry Practice <input type="checkbox"/>	Major course / Elective Year 3 (see elective table) <input type="checkbox"/>	Major course / Elective Year 4 (see elective table) <input type="checkbox"/>	Arts Major Level II <input type="checkbox"/>
Year 5				
S 1	ENG 3005 Research Method & Project Management <input type="checkbox"/>	Major course / Elective Year 4 (see elective table) <input type="checkbox"/>	Arts Major Level III <input type="checkbox"/>	Arts Major Level III <input type="checkbox"/>
S 2	ENG 4001A Research Project Part A <input type="checkbox"/>	Major course / Elective Year 4 (see elective table) <input type="checkbox"/>	Arts Major Level III Capstone Course (6 units) <input type="checkbox"/>	
Year 6				
S 1	ENG 4001B Research Project Part B <input type="checkbox"/>	Major course / Elective Year 4 (see elective table) <input type="checkbox"/>	Major course / Elective Year 4 (see elective table) <input type="checkbox"/>	Major course / Elective Year 4 (see elective table) <input type="checkbox"/>

Core Course Major Course / Elective (see table) Double Degree Courses

[^] Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.

* If unable to take MECH ENG 1007 Engineering Mechanics – Dynamics in summer please contact askecms@adelaide.edu.au to discuss an alternative study plan.

Bachelor of Engineering (Honours) (Mechanical) -Aerospace Engineering Major and Bachelor of Arts

Year 1				
S 2	MATHS 1011 Mathematics IA <input type="checkbox"/>	[^] ENG 1001 Introduction to Engineering <input type="checkbox"/>	CHEM ENG 1009 Materials I <input type="checkbox"/>	TECH 1006 Engineering Mechanics Technology <input type="checkbox"/>
Year 2				
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics <input type="checkbox"/>			
S 1	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	MECH ENG 2100 Design Practice <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	MECH ENG 2002 Stress Analysis & Design <input type="checkbox"/>	MECH ENG 2019 Dynamics & Control I <input type="checkbox"/>	ARTS 1007 The Enquiring Mind: Freedom and Media <input type="checkbox"/>
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/>	MECH ENG 2020 Materials & Manufacturing <input type="checkbox"/>	Arts Major Level I <input type="checkbox"/>
S 2	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>	MECH ENG 3111 Acoustics and Vibrations <input type="checkbox"/>		Arts Major Level I <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note on page 2.				
Year 4				
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	MECH ENG 3100 Aeronautical Engineering <input type="checkbox"/>	Arts Elective Level II <input type="checkbox"/>	Arts Major Level II <input type="checkbox"/>
S 2	ENG 3004 Systems Engineering & Industry Practice <input type="checkbox"/>	MECH ENG 3101 Applied Aerodynamics <input type="checkbox"/>	MECH ENG 3104 Space Vehicle Design <input type="checkbox"/>	Arts Major Level II <input type="checkbox"/>
Year 5				
S 1	ENG 3005 Research Method & Project Management <input type="checkbox"/>	MECH ENG 4106 Aerospace Propulsion <input type="checkbox"/>	Arts Major Level III <input type="checkbox"/>	Arts Major Level III <input type="checkbox"/>
S 2	ENG 4001A Research Project Part A <input type="checkbox"/>	MECH ENG 4108 Aircraft Design <input type="checkbox"/>	Arts Major Level III Capstone Course (6 units) <input type="checkbox"/>	
Year 6				
S 1	ENG 4001B Research Project Part B <input type="checkbox"/>	Elective Year 4 (see elective table) <input type="checkbox"/>	Elective Year 4 (see elective table) <input type="checkbox"/>	Elective Year 4 (see elective table) <input type="checkbox"/>

Core Course	Major course	Elective (see table)	Double Degree Courses
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[^] Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.

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Bachelor of Engineering (Honours) (Mechanical) - Defence Systems Major and Bachelor of Arts

Year 1				
S 2	MATHS 1011 Mathematics IA <input type="checkbox"/>	[^] ENG 1001 Introduction to Engineering <input type="checkbox"/>	CHEM ENG 1009 Materials I <input type="checkbox"/>	TECH 1006 Engineering Mechanics Technology <input type="checkbox"/>
Year 2				
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics <input type="checkbox"/>			
S 1	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	MECH ENG 2100 Design Practice <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	MECH ENG 2002 Stress Analysis & Design <input type="checkbox"/>	MECH ENG 2019 Dynamics & Control I <input type="checkbox"/>	ARTS 1007 The Enquiring Mind: Freedom and Media <input type="checkbox"/>
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/>	MECH ENG 2020 Materials & Manufacturing <input type="checkbox"/>	Arts Major Level I <input type="checkbox"/>
S 2	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>	MECH ENG 3111 Acoustics and Vibrations <input type="checkbox"/>		Arts Major Level I <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note on page 2.				
Year 4				
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	MECH ENG 3026 Advanced Mechanics of Materials <input type="checkbox"/>	Arts Elective Level II <input type="checkbox"/>	Arts Major Level II <input type="checkbox"/>
S 2	ENG 3004 Systems Engineering & Industry Practice <input type="checkbox"/>	ENG 3305 Human Factors for Decision Making <input type="checkbox"/>	ENG 4010 Defence Leadership <input type="checkbox"/>	Arts Major Level II <input type="checkbox"/>
Year 5				
S 1	ENG 3005 Research Method & Project Management <input type="checkbox"/>	POLIS 1104 Introduction to Comparative Politics <input type="checkbox"/>	Arts Major Level III <input type="checkbox"/>	Arts Major Level III <input type="checkbox"/>
S 2	ENG 4001A Research Project Part A <input type="checkbox"/>	ENG 4020 Complex Systems Engineering <input type="checkbox"/>	Arts Major Level III Capstone Course (6 units) <input type="checkbox"/>	
Year 6				
S 1	ENG 4001B Research Project Part B <input type="checkbox"/>	Elective Year 4 (see elective table) <input type="checkbox"/>	Elective Year 4 (see elective table) <input type="checkbox"/>	Elective Year 4 (see elective table) <input type="checkbox"/>

Core Course	Major course	Elective (see table)	Double Degree Courses
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* If unable to take MECH ENG 1007 Engineering Mechanics – Dynamics in summer please contact askecms@adelaide.edu.au to discuss an alternative study plan.



Bachelor of Engineering (Honours) (Mechanical) - Mechanical Engineering Major and Bachelor of Arts

Year 1				
S 2	MATHS 1011 Mathematics IA <input type="checkbox"/>	[^] ENG 1001 Introduction to Engineering <input type="checkbox"/>	CHEM ENG 1009 Materials I <input type="checkbox"/>	TECH 1006 Engineering Mechanics Technology <input type="checkbox"/>
Year 2				
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics <input type="checkbox"/>			
S 1	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	MECH ENG 2100 Design Practice <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	MECH ENG 2002 Stress Analysis & Design <input type="checkbox"/>	MECH ENG 2019 Dynamics & Control I <input type="checkbox"/>	ARTS 1007 The Enquiring Mind: Freedom and Media <input type="checkbox"/>
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/>	MECH ENG 2020 Materials & Manufacturing <input type="checkbox"/>	Arts Major Level I <input type="checkbox"/>
S 2	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>	MECH ENG 3111 Acoustics and Vibrations <input type="checkbox"/>		Arts Major Level I <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note on page 2.				
Year 4				
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	MECH ENG 3026 Advanced Mechanics of Materials <input type="checkbox"/>	Arts Elective Level II <input type="checkbox"/>	Arts Major Level II <input type="checkbox"/>
S 2	ENG 3004 Systems Engineering & Industry Practice <input type="checkbox"/>	MECH ENG 3101 Applied Aerodynamics <input type="checkbox"/>	Elective Year 4 (see elective table) <input type="checkbox"/>	Arts Major Level II <input type="checkbox"/>
Year 5				
S 1	ENG 3005 Research Method & Project Management <input type="checkbox"/>	MECH ENG 4111 CFD for Engineering Applications <input type="checkbox"/>	Arts Major Level III <input type="checkbox"/>	Arts Major Level III <input type="checkbox"/>
S 2	ENG 4001A Research Project Part A <input type="checkbox"/>	Elective Year 4 (see elective table) <input type="checkbox"/>	Arts Major Level III Capstone Course (6 units) <input type="checkbox"/>	
Year 6				
S 1	ENG 4001B Research Project Part B <input type="checkbox"/>	MECH ENG 4118 Finite Element Analysis of Structures <input type="checkbox"/>	MECH ENG 4121 Materials Selection & Failure Analysis <input type="checkbox"/>	Elective Year 4 (see elective table) <input type="checkbox"/>

Core Course	Major course	Elective (see table)	Double Degree Courses
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* If unable to take MECH ENG 1007 Engineering Mechanics – Dynamics in summer please contact askecms@adelaide.edu.au to discuss an alternative study plan.



Bachelor of Engineering (Honours) (Mechanical) - Mechatronics and Robotics Major and Bachelor of Arts

Year 1				
S 2	MATHS 1011 Mathematics IA <input type="checkbox"/>	[^] ENG 1001 Introduction to Engineering <input type="checkbox"/>	CHEM ENG 1009 Materials I <input type="checkbox"/>	TECH 1006 Engineering Mechanics Technology <input type="checkbox"/>
Year 2				
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics <input type="checkbox"/>			
S 1	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	MECH ENG 2100 Design Practice <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	MECH ENG 2002 Stress Analysis & Design <input type="checkbox"/>	MECH ENG 2019 Dynamics & Control I <input type="checkbox"/>	ARTS 1007 The Enquiring Mind: Freedom and Media <input type="checkbox"/>
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/>	ELEC ENG 2105 Electronic Circuits M <input type="checkbox"/>	Arts Major Level I <input type="checkbox"/>
S 2	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>	MECH ENG 3111 Acoustics and Vibrations <input type="checkbox"/>		Arts Major Level I <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note on page 2.				
Year 4				
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	MECH ENG 3106 Mechatronics II <input type="checkbox"/>	Arts Elective Level II <input type="checkbox"/>	Arts Major Level II <input type="checkbox"/>
S 2	ENG 3004 Systems Engineering & Industry Practice <input type="checkbox"/>	MECH ENG 3032 Micro-Controller Programming <input type="checkbox"/>	MECH ENG 4102 Advanced PID Control <input type="checkbox"/>	Arts Major Level II <input type="checkbox"/>
Year 5				
S 1	ENG 3005 Research Method & Project Management <input type="checkbox"/>	MECH ENG 4124 Robotics M <input type="checkbox"/>	Arts Major Level III <input type="checkbox"/>	Arts Major Level III <input type="checkbox"/>
S 2	ENG 4001A Research Project Part A <input type="checkbox"/>	MECH ENG 4123 Advanced Digital Control <input type="checkbox"/>	Arts Major Level III Capstone Course (6 units) <input type="checkbox"/>	
Year 6				
S 1	ENG 4001B Research Project Part B <input type="checkbox"/>	Elective Year 4 (see elective table) <input type="checkbox"/>	Elective Year 4 (see elective table) <input type="checkbox"/>	Elective Year 4 (see elective table) <input type="checkbox"/>

Core Course	Major course	Elective (see table)	Double Degree Courses
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[^] Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.

* If unable to take MECH ENG 1007 Engineering Mechanics – Dynamics in summer please contact askecms@adelaide.edu.au to discuss an alternative study plan.

Bachelor of Engineering (Honours) (Mechanical) - Medical Technologies Major and Bachelor of Arts

Year 1				
S 2	MATHS 1011 Mathematics IA <input type="checkbox"/>	[^] ENG 1001 Introduction to Engineering <input type="checkbox"/>	CHEM ENG 1009 Materials I <input type="checkbox"/>	TECH 1006 Engineering Mechanics Technology <input type="checkbox"/>
Year 2				
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics <input type="checkbox"/>			
S 1	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	MECH ENG 2100 Design Practice <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	MECH ENG 2002 Stress Analysis & Design <input type="checkbox"/>	MECH ENG 2019 Dynamics & Control I <input type="checkbox"/>	ARTS 1007 The Enquiring Mind: Freedom and Media <input type="checkbox"/>
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/>	ANAT SC 1102 Human Anatomy and Physiology IA <input type="checkbox"/>	Arts Major Level I <input type="checkbox"/>
S 2	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>	MECH ENG 3111 Acoustics and Vibrations <input type="checkbox"/>		Arts Major Level I <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note on page 2.				
Year 4				
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	ENG 3101 Introduction to Medical Technologies <input type="checkbox"/>	Arts Elective Level II <input type="checkbox"/>	Arts Major Level II <input type="checkbox"/>
S 2	ENG 3004 Systems Engineering & Industry Practice <input type="checkbox"/>	ANAT SC 2009 Musculoskeletal Anatomy <input type="checkbox"/>	ELEC ENG 4115 Biomedical Instrumentation <input type="checkbox"/>	Arts Major Level II <input type="checkbox"/>
Year 5				
S 1	ENG 3005 Research Method & Project Management <input type="checkbox"/>	PHYSIOL 2510 Physiology IIA <input type="checkbox"/>	Arts Major Level III <input type="checkbox"/>	Arts Major Level III <input type="checkbox"/>
S 2	ENG 4001A Research Project Part A <input type="checkbox"/>	MECH ENG 4101 Biomechanical Engineering <input type="checkbox"/>	Arts Major Level III Capstone Course (6 units) <input type="checkbox"/>	
Year 6				
S 1	ENG 4001B Research Project Part B <input type="checkbox"/>	Elective Year 4 (see elective table) <input type="checkbox"/>	Elective Year 4 (see elective table) <input type="checkbox"/>	Elective Year 4 (see elective table) <input type="checkbox"/>

Core Course	Major course	Elective (see table)	Double Degree Courses
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[^] Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.

* If unable to take MECH ENG 1007 Engineering Mechanics – Dynamics in summer please contact askecms@adelaide.edu.au to discuss an alternative study plan.

Bachelor of Engineering (Honours) (Mechanical) - Renewable Energy Major and Bachelor of Arts

Year 1				
S 2	MATHS 1011 Mathematics IA <input type="checkbox"/>	[^] ENG 1001 Introduction to Engineering <input type="checkbox"/>	CHEM ENG 1009 Materials I <input type="checkbox"/>	TECH 1006 Engineering Mechanics Technology <input type="checkbox"/>
Year 2				
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics <input type="checkbox"/>			
S 1	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	MECH ENG 2100 Design Practice <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	MECH ENG 2002 Stress Analysis & Design <input type="checkbox"/>	MECH ENG 2019 Dynamics & Control I <input type="checkbox"/>	ARTS 1007 The Enquiring Mind: Freedom and Media <input type="checkbox"/>
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/>	MECH ENG 2020 Materials & Manufacturing <input type="checkbox"/>	Arts Major Level I <input type="checkbox"/>
S 2	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>	MECH ENG 3111 Acoustics and Vibrations <input type="checkbox"/>		Arts Major Level I <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note on page 2.				
Year 4				
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	ENTREP 3006 Energy Management, Economics & Policy <input type="checkbox"/>	Arts Elective Level II <input type="checkbox"/>	Arts Major Level II <input type="checkbox"/>
S 2	ENG 3004 Systems Engineering & Industry Practice <input type="checkbox"/>	CHEM ENG 4048 Biofuels, Biomass and Wastes <input type="checkbox"/>	Elective Year 3 (see elective table) <input type="checkbox"/>	Arts Major Level II <input type="checkbox"/>
Year 5				
S 1	ENG 3005 Research Method & Project Management <input type="checkbox"/>	MECH ENG 4064 Renewable Power Technologies <input type="checkbox"/>	Arts Major Level III <input type="checkbox"/>	Arts Major Level III <input type="checkbox"/>
S 2	ENG 4001A Research Project Part A <input type="checkbox"/>	ELEC ENG 4111 Distributed Generation Technologies <input type="checkbox"/>	Arts Major Level III Capstone Course (6 units) <input type="checkbox"/>	
Year 6				
S 1	ENG 4001B Research Project Part B <input type="checkbox"/>	MECH ENG 4112 Combustion Technology & Emission Control <input type="checkbox"/>	Elective Year 4 (see elective table) <input type="checkbox"/>	Elective Year 4 (see elective table) <input type="checkbox"/>

Core Course	Major course	Elective (see table)	Double Degree Courses
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[^] Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.

* If unable to take MECH ENG 1007 Engineering Mechanics – Dynamics in summer please contact askecms@adelaide.edu.au to discuss an alternative study plan.

Bachelor of Engineering (Honours) (Mechanical) - Smart Technologies Major and Bachelor of Arts

Year 1				
S 2	MATHS 1011 Mathematics IA <input type="checkbox"/>	[^] ENG 1001 Introduction to Engineering <input type="checkbox"/>	CHEM ENG 1009 Materials I <input type="checkbox"/>	TECH 1006 Engineering Mechanics Technology <input type="checkbox"/>
Year 2				
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics <input type="checkbox"/>			
S 1	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	MECH ENG 2100 Design Practice <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	MECH ENG 2002 Stress Analysis & Design <input type="checkbox"/>	MECH ENG 2019 Dynamics & Control I <input type="checkbox"/>	ARTS 1007 The Enquiring Mind: Freedom and Media <input type="checkbox"/>
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>	Arts Major Level I <input type="checkbox"/>
S 2	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>	MECH ENG 3111 Acoustics and Vibrations <input type="checkbox"/>		Arts Major Level I <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note on page 2.				
Year 4				
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures <input type="checkbox"/>	Arts Elective Level II <input type="checkbox"/>	Arts Major Level II <input type="checkbox"/>
S 2	ENG 3004 Systems Engineering & Industry Practice <input type="checkbox"/>	MECH ENG 3032 Micro-Controller Programming <input type="checkbox"/>	COMP SCI 3012 Distributed Systems <input type="checkbox"/>	Arts Major Level II <input type="checkbox"/>
Year 5				
S 1	ENG 3005 Research Method & Project Management <input type="checkbox"/>	COMP SCI 3001 Computer Networks & Applications <input type="checkbox"/>	Arts Major Level III <input type="checkbox"/>	Arts Major Level III <input type="checkbox"/>
S 2	ENG 4001A Research Project Part A <input type="checkbox"/>	ELEC ENG 4107 Autonomous Systems <input type="checkbox"/>	Arts Major Level III Capstone Course (6 units) <input type="checkbox"/>	
Year 6				
S 1	ENG 4001B Research Project Part B <input type="checkbox"/>	Elective Year 4 (see elective table) <input type="checkbox"/>	Elective Year 4 (see elective table) <input type="checkbox"/>	Elective Year 4 (see elective table) <input type="checkbox"/>

Core Course	Major course	Elective (see table)	Double Degree Courses
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[^] Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.

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Bachelor of Engineering (Honours) (Mechanical) - Sports Engineering Major and Bachelor of Arts

Year 1				
S 2	MATHS 1011 Mathematics IA <input type="checkbox"/>	[^] ENG 1001 Introduction to Engineering <input type="checkbox"/>	CHEM ENG 1009 Materials I <input type="checkbox"/>	TECH 1006 Engineering Mechanics Technology <input type="checkbox"/>
Year 2				
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics <input type="checkbox"/>			
S 1	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	MECH ENG 2100 Design Practice <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	MECH ENG 2002 Stress Analysis & Design <input type="checkbox"/>	MECH ENG 2019 Dynamics & Control I <input type="checkbox"/>	ARTS 1007 The Enquiring Mind: Freedom and Media <input type="checkbox"/>
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/>	ANAT SC 1102 Human Anatomy and Physiology IA <input type="checkbox"/>	Arts Major Level I <input type="checkbox"/>
S 2	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>	MECH ENG 3111 Acoustics and Vibrations <input type="checkbox"/>		Arts Major Level I <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note on page 2.				
Year 4				
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	MECH ENG 3026 Advanced Mechanics of Materials <input type="checkbox"/>	Arts Elective Level II <input type="checkbox"/>	Arts Major Level II <input type="checkbox"/>
S 2	ENG 3004 Systems Engineering & Industry Practice <input type="checkbox"/>	MECH ENG 3101 Applied Aerodynamics <input type="checkbox"/>	Elective Year 4 (see elective table) <input type="checkbox"/>	Arts Major Level II <input type="checkbox"/>
Year 5				
S 1	ENG 3005 Research Method & Project Management <input type="checkbox"/>	MECH ENG 3107 Sports Engineering II <input type="checkbox"/>	Arts Major Level III <input type="checkbox"/>	Arts Major Level III <input type="checkbox"/>
S 2	ENG 4001A Research Project Part A <input type="checkbox"/>	MECH ENG 4101 Biomechanical Engineering <input type="checkbox"/>	Arts Major Level III Capstone Course (6 units) <input type="checkbox"/>	
Year 6				
S 1	ENG 4001B Research Project Part B <input type="checkbox"/>	MECH ENG 4104 Advanced Topics in Fluid Mechanics <input type="checkbox"/>	Elective Year 4 (see elective table) <input type="checkbox"/>	Elective Year 4 (see elective table) <input type="checkbox"/>

Core Course	Major course	Elective (see table)	Double Degree Courses
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[^] Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.

* If unable to take MECH ENG 1007 Engineering Mechanics – Dynamics in summer please contact askecms@adelaide.edu.au to discuss an alternative study plan.

Mechanical Engineering Electives

Not all Majors and Double Degrees permit electives in every semester slot.

Year 2			
S1	MECH ENG 2020 MECH ENG 2102	Materials & Manufacturing Sports Engineering I (<i>not offered 2021</i>)	S2 ELEC ENG 2106 Vector Calculus & Electromagnetics
Year 3			
S1	MECH ENG 3026 MECH ENG 3100 MECH ENG 3103 MECH ENG 3106 MECH ENG 3107	Advanced Mechanics of Materials Aeronautical Engineering Advanced Manufacturing Systems (<i>not offered 2021</i>) Mechatronics II Sports Engineering II	S2 ENG 3305 Human Factors for Decision Making ENTREP 3900 eChallenge MECH ENG 3032 Micro-Controller Programming MECH ENG 3101 Applied Aerodynamics MECH ENG 3104 Space Vehicle Design
WIN	PROJMGNT 3030	Project Logistics and Supply Chains	
Year 4			
S1	MECH ENG 4064 MECH ENG 4104 MECH ENG 4106 MECH ENG 4111 MECH ENG 4112 MECH ENG 4118 MECH ENG 4121 MECH ENG 4124 ENG 3201	Renewable Power Technologies (<i>not offered 2021</i>) Advanced Topics in Fluid Mechanics Aerospace Propulsion CFD for Engineering Applications Combustion Technology & Emission Control Finite Element Analysis of Structures Materials Selection & Failure Analysis Robotics M Essentials of Humanitarian Practice (TBC)	S2 MECH ENG 4100 Advanced Topics in Aerospace Engineering MECH ENG 4101 Biomechanical Engineering MECH ENG 4102 Advanced PID Control MECH ENG 4105 Advanced Vibrations MECH ENG 4107 Air conditioning MECH ENG 4108 Aircraft Design MECH ENG 4120 Fracture Mechanics (<i>not offered 2021</i>) MECH ENG 4123 Advanced Digital Control MECH ENG 4125 Stresses in Plates & Shells (<i>not offered 2021</i>) ENG 3201 Essentials of Humanitarian Practice (TBC)
SUM	MECH ENG 4115 MECH ENG 4126	Engineering Acoustics Topics in Welded Structures	