Bachelor of Engineering (Honours) (Mechanical) with Bachelor of Finance
Study Plans — Semester 2 Start

Bachelor of Engineering (Honours) (Mechanical) with Bachelor of Finance – 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 one 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.

Finance
Students can choose Finance electives in accordance with the academic program rules for the Bachelor of Finance: https://calendar.adelaide.edu.au/faculty/professions

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

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2021 Study Plan

Bachelor of Engineering (Honours) (Mechanical) with Bachelor of Finance

Year 1				
S 2	MATHS 1011 Mathematics IA ☐	^ENG 1001 Introduction to Engineering ☐	CHEM ENG 1009 Materials I ☐	TECH 1006 Engineering Mechanics Technology ☐
Year 2				
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics ☐			
S 1	MATHS 1012 Mathematics IB ☐	ENG 1002 Programming (Matlab and C) ☐	MECH ENG 2100 Design Practice ☐	ELEC ENG 1101 Electronic Systems ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	MECH ENG 2002 Stress Analysis & Design ☐	MECH ENG 2019 Dynamics & Control I ☐	ECON 1009 International Financial Institutions & Markets ☐
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II ☐	MECH ENG 2021 Thermo-Fluids I ☐	Major course / Elective Year 2 (see elective table) ☐	ACCTING 1002 Introductory Accounting I ☐
S 2	MECH ENG 2101 Mechatronics IM ☐	MECH ENG 3111 Acoustics and Vibrations ☐		CORPFIN 1002 Business Finance I ☐
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 ☐	Major course / Elective Year 3 (see elective table) ☐	CORPFIN 2501 Financial Institutions Management II ☐	ECON 1012 Principles of Economics I ☐
S 2	ENG 3004 Systems Engineering & Industry Practice ☐	Major course / Elective Year 4 (see elective table) ☐	Major course / Elective Year 4 (see elective table) ☐	MATHS 3012 Financial Modelling: Tools & Techniques III **or** CORPFIN 3502 Options, Futures & Risk Management III ☐
Year 5				
S 1	ENG 3005 Research Method & Project Management ☐	Major course / Elective Year 4 (see elective table) ☐	CORPFIN 2502 Business Valuation II ☐	MATHS 2103 Probability & Statistics II **or** ECON 2515 Intermediate Applied Econometrics II ☐
S 2	ENG 4001A Research Project Part A ☐	Major course / Elective Year 4 (see elective table) ☐	Level III Finance Elective ☐	CORPFIN 3501 Portfolio Theory & Management III ☐
Year 6				
S 1	ENG 4001B Research Project Part B ☐	Major course / Elective Year 4 (see elective table) ☐	Level III Finance Elective ☐	ECON 2508 Financial Economics II ☐

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.

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2021 Study Plan

Bachelor of Engineering (Honours) (Mechanical) - Aerospace Engineering Major with Bachelor of Finance

Year 1				
S 2	MATHS 1011 Mathematics IA ☐	^ENG 1001 Introduction to Engineering ☐	CHEM ENG 1009 Materials I ☐	TECH 1006 Engineering Mechanics Technology ☐
Year 2				
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics ☐			
S 1	MATHS 1012 Mathematics IB ☐	ENG 1002 Programming (Matlab and C) ☐	MECH ENG 2100 Design Practice ☐	ELEC ENG 1101 Electronic Systems ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	MECH ENG 2002 Stress Analysis & Design ☐	MECH ENG 2019 Dynamics & Control I ☐	ECON 1009 International Financial Institutions & Markets ☐
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II ☐	MECH ENG 2021 Thermo-Fluids I ☐	MECH ENG 2020 Materials & Manufacturing ☐	ACCTING 1002 Introductory Accounting I ☐
S 2	MECH ENG 2101 Mechatronics IM ☐	MECH ENG 3111 Acoustics and Vibrations ☐		CORPFIN 1002 Business Finance I ☐
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 ☐	MECH ENG 3100 Aeronautical Engineering ☐	CORPFIN 2501 Financial Institutions Management II ☐	ECON 1012 Principles of Economics I ☐
S 2	ENG 3004 Systems Engineering & Industry Practice ☐	MECH ENG 3101 Applied Aerodynamics ☐	MECH ENG 3104 Space Vehicle Design ☐	MATHS 3012 Financial Modelling: Tools & Techniques III **or** CORPFIN 3502 Options, Futures & Risk Management III ☐
Year 5				
S 1	ENG 3005 Research Method & Project Management ☐	MECH ENG 4106 Aerospace Propulsion ☐	CORPFIN 2502 Business Valuation II ☐	MATHS 2103 Probability & Statistics II **or** ECON 2515 Intermediate Applied Econometrics II ☐
S 2	ENG 4001A Research Project Part A ☐	MECH ENG 4108 Aircraft Design ☐	Level III Finance Elective ☐	CORPFIN 3501 Portfolio Theory & Management III ☐
Year 6				
S 1	ENG 4001B Research Project Part B ☐	Elective Year 4 (see elective table) ☐	Level III Finance Elective ☐	ECON 2508 Financial Economics II ☐

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.

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2021 Study Plan

Bachelor of Engineering (Honours) (Mechanical) - Defence Systems Major with Bachelor of Finance

Year 1				
S 2	MATHS 1011 Mathematics IA ☐	^ENG 1001 Introduction to Engineering ☐	CHEM ENG 1009 Materials I ☐	TECH 1006 Engineering Mechanics Technology ☐
Year 2				
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics ☐			
S 1	MATHS 1012 Mathematics IB ☐	ENG 1002 Programming (Matlab and C) ☐	MECH ENG 2100 Design Practice ☐	ELEC ENG 1101 Electronic Systems ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	MECH ENG 2002 Stress Analysis & Design ☐	MECH ENG 2019 Dynamics & Control I ☐	ECON 1009 International Financial Institutions & Markets ☐
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II ☐	MECH ENG 2021 Thermo-Fluids I ☐	MECH ENG 2020 Materials & Manufacturing ☐	ACCTING 1002 Introductory Accounting I ☐
S 2	MECH ENG 2101 Mechatronics IM ☐	MECH ENG 3111 Acoustics and Vibrations ☐		CORPFIN 1002 Business Finance I ☐
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 ☐	MECH ENG 3026 Advanced Mechanics of Materials ☐	CORPFIN 2501 Financial Institutions Management II ☐	ECON 1012 Principles of Economics I ☐
S 2	ENG 3004 Systems Engineering & Industry Practice ☐	ENG 3305 Human Factors for Decision Making ☐	ENG 4010 Defence Leadership ☐	MATHS 3012 Financial Modelling: Tools & Techniques III **or** CORPFIN 3502 Options, Futures & Risk Management III ☐
Year 5				
S 1	ENG 3005 Research Method & Project Management ☐	POLIS 1104 Introduction to Comparative Politics ☐	CORPFIN 2502 Business Valuation II ☐	MATHS 2103 Probability & Statistics II **or** ECON 2515 Intermediate Applied Econometrics II ☐
S 2	ENG 4001A Research Project Part A ☐	ENG 4020 Complex Systems Engineering ☐	Level III Finance Elective ☐	CORPFIN 3501 Portfolio Theory & Management III ☐
Year 6				
S 1	ENG 4001B Research Project Part B ☐	Elective Year 4 (see elective table) ☐	Level III Finance Elective ☐	ECON 2508 Financial Economics II ☐

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.

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2021 Study Plan

Bachelor of Engineering (Honours) (Mechanical) - Mechanical Engineering Major with Bachelor of Finance

Year 1				
S 2	MATHS 1011 Mathematics IA ☐	^ENG 1001 Introduction to Engineering ☐	CHEM ENG 1009 Materials I ☐	TECH 1006 Engineering Mechanics Technology ☐
Year 2				
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics ☐			
S 1	MATHS 1012 Mathematics IB ☐	ENG 1002 Programming (Matlab and C) ☐	MECH ENG 2100 Design Practice ☐	ELEC ENG 1101 Electronic Systems ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	MECH ENG 2002 Stress Analysis & Design ☐	MECH ENG 2019 Dynamics & Control I ☐	ECON 1009 International Financial Institutions & Markets ☐
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II ☐	MECH ENG 2021 Thermo-Fluids I ☐	MECH ENG 2020 Materials & Manufacturing ☐	ACCTING 1002 Introductory Accounting I ☐
S 2	MECH ENG 2101 Mechatronics IM ☐	MECH ENG 3111 Acoustics and Vibrations ☐		CORPFIN 1002 Business Finance I ☐
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 ☐	MECH ENG 3026 Advanced Mechanics of Materials ☐	CORPFIN 2501 Financial Institutions Management II ☐	ECON 1012 Principles of Economics I ☐
S 2	ENG 3004 Systems Engineering & Industry Practice ☐	MECH ENG 3101 Applied Aerodynamics ☐	CORPFIN 2502 Business Valuation II ☐	MATHS 3012 Financial Modelling: Tools & Techniques III **or** CORPFIN 3502 Options, Futures & Risk Management III ☐
Year 5				
S 1	ENG 3005 Research Method & Project Management ☐	MECH ENG 4111 CFD for Engineering Applications ☐	MECH ENG 4118 Finite Element Analysis of Structures ☐	MATHS 2103 Probability & Statistics II **or** ECON 2515 Intermediate Applied Econometrics II ☐
S 2	ENG 4001A Research Project Part A ☐	Elective Year 4 (see elective table) ☐	Level III Finance Elective ☐	CORPFIN 3501 Portfolio Theory & Management III ☐
Year 6				
S 1	ENG 4001B Research Project Part B ☐	MECH ENG 4121 Materials Selection & Failure Analysis ☐	Level III Finance Elective ☐	ECON 2508 Financial Economics II ☐

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.

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2021 Study Plan

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

Year 1				
S 2	MATHS 1011 Mathematics IA ☐	^ENG 1001 Introduction to Engineering ☐	CHEM ENG 1009 Materials I ☐	TECH 1006 Engineering Mechanics Technology ☐
Year 2				
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics ☐			
S 1	MATHS 1012 Mathematics IB ☐	ENG 1002 Programming (Matlab and C) ☐	MECH ENG 2100 Design Practice ☐	ELEC ENG 1101 Electronic Systems ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	MECH ENG 2002 Stress Analysis & Design ☐	MECH ENG 2019 Dynamics & Control I ☐	ECON 1009 International Financial Institutions & Markets ☐
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II ☐	MECH ENG 2021 Thermo-Fluids I ☐	ELEC ENG 2105 Electronic Circuits M ☐	ACCTING 1002 Introductory Accounting I ☐
S 2	MECH ENG 2101 Mechatronics IM ☐	MECH ENG 3111 Acoustics and Vibrations ☐		CORPFIN 1002 Business Finance I ☐
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 ☐	MECH ENG 3106 Mechatronics II ☐	CORPFIN 2501 Financial Institutions Management II ☐	ECON 1012 Principles of Economics I ☐
S 2	ENG 3004 Systems Engineering & Industry Practice ☐	MECH ENG 3032 Micro-Controller Programming ☐	MECH ENG 4102 Advanced PID Control ☐	MATHS 3012 Financial Modelling: Tools & Techniques III **or** CORPFIN 3502 Options, Futures & Risk Management III ☐
Year 5				
S 1	ENG 3005 Research Method & Project Management ☐	MECH ENG 4124 Robotics M ☐	CORPFIN 2502 Business Valuation II ☐	MATHS 2103 Probability & Statistics II **or** ECON 2515 Intermediate Applied Econometrics II ☐
S 2	ENG 4001A Research Project Part A ☐	MECH ENG 4123 Advanced Digital Control ☐	Level III Finance Elective ☐	CORPFIN 3501 Portfolio Theory & Management III ☐
Year 6				
S 1	ENG 4001B Research Project Part B ☐	Elective Year 4 (see elective table) ☐	Level III Finance Elective ☐	ECON 2508 Financial Economics II ☐

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.

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2021 Study Plan

Bachelor of Engineering (Honours) (Mechanical) - Medical Technologies Major with Bachelor of Finance

Year 1				
S 2	MATHS 1011 Mathematics IA ☐	^ENG 1001 Introduction to Engineering ☐	CHEM ENG 1009 Materials I ☐	TECH 1006 Engineering Mechanics Technology ☐
Year 2				
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics ☐			
S 1	MATHS 1012 Mathematics IB ☐	ENG 1002 Programming (Matlab and C) ☐	MECH ENG 2100 Design Practice ☐	ELEC ENG 1101 Electronic Systems ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	MECH ENG 2002 Stress Analysis & Design ☐	MECH ENG 2019 Dynamics & Control I ☐	ECON 1009 International Financial Institutions & Markets ☐
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II ☐	MECH ENG 2021 Thermo-Fluids I ☐	ANAT SC 1102 Human Anatomy and Physiology IA ☐	ACCTING 1002 Introductory Accounting I ☐
S 2	MECH ENG 2101 Mechatronics IM ☐	MECH ENG 3111 Acoustics and Vibrations ☐		CORPFIN 1002 Business Finance I ☐
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 ☐	ENG 3101 Introduction to Medical Technologies ☐	CORPFIN 2501 Financial Institutions Management II ☐	ECON 1012 Principles of Economics I ☐
S 2	ENG 3004 Systems Engineering & Industry Practice ☐	ANAT SC 2009 Musculoskeletal Anatomy ☐	MECH ENG 4101 Biomechanical Engineering ☐	MATHS 3012 Financial Modelling: Tools & Techniques III **or** CORPFIN 3502 Options, Futures & Risk Management III ☐
Year 5				
S 1	ENG 3005 Research Method & Project Management ☐	PHYSIOL 2510 Physiology IIA ☐	CORPFIN 2502 Business Valuation II ☐	MATHS 2103 Probability & Statistics II **or** ECON 2515 Intermediate Applied Econometrics II ☐
S 2	ENG 4001A Research Project Part A ☐	ELEC ENG 4115 Biomedical Instrumentation ☐	Level III Finance Elective ☐	CORPFIN 3501 Portfolio Theory & Management III ☐
Year 6				
S 1	ENG 4001B Research Project Part B ☐	Elective Year 4 (see elective table) ☐	Level III Finance Elective ☐	ECON 2508 Financial Economics II ☐

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.

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2021 Study Plan

Bachelor of Engineering (Honours) (Mechanical) - Renewable Energy Major with Bachelor of Finance

Year 1				
S 2	MATHS 1011 Mathematics IA ☐	^ENG 1001 Introduction to Engineering ☐	CHEM ENG 1009 Materials I ☐	TECH 1006 Engineering Mechanics Technology ☐
Year 2				
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics ☐			
S 1	MATHS 1012 Mathematics IB ☐	ENG 1002 Programming (Matlab and C) ☐	MECH ENG 2100 Design Practice ☐	ELEC ENG 1101 Electronic Systems ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	MECH ENG 2002 Stress Analysis & Design ☐	MECH ENG 2019 Dynamics & Control I ☐	ECON 1009 International Financial Institutions & Markets ☐
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II ☐	MECH ENG 2021 Thermo-Fluids I ☐	MECH ENG 2020 Materials & Manufacturing ☐	ACCTING 1002 Introductory Accounting I ☐
S 2	MECH ENG 2101 Mechatronics IM ☐	MECH ENG 3111 Acoustics and Vibrations ☐		CORPFIN 1002 Business Finance I ☐
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 ☐	ENTREP 3006 Energy Management, Economics & Policy ☐	CORPFIN 2501 Financial Institutions Management II ☐	ECON 1012 Principles of Economics I ☐
S 2	ENG 3004 Systems Engineering & Industry Practice ☐	CHEM ENG 4048 Biofuels, Biomass and Wastes ☐	ELEC ENG 4111 Distributed Generation Technologies ☐	MATHS 3012 Financial Modelling: Tools & Techniques III **or** CORPFIN 3502 Options, Futures & Risk Management III ☐
Year 5				
S 1	ENG 3005 Research Method & Project Management ☐	MECH ENG 4064 Renewable Power Technologies ☐	CORPFIN 2502 Business Valuation II ☐	MATHS 2103 Probability & Statistics II **or** ECON 2515 Intermediate Applied Econometrics II ☐
S 2	ENG 4001A Research Project Part A ☐	Elective Year 4 (see elective table) ☐	Level III Finance Elective ☐	CORPFIN 3501 Portfolio Theory & Management III ☐
Year 6				
S 1	ENG 4001B Research Project Part B ☐	MECH ENG 4112 Combustion Technology & Emission Control ☐	Level III Finance Elective ☐	ECON 2508 Financial Economics II ☐

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.

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2021 Study Plan

Bachelor of Engineering (Honours) (Mechanical) - Smart Technologies Major with Bachelor of Finance

Year 1				
S 2	MATHS 1011 Mathematics IA ☐	^ENG 1001 Introduction to Engineering ☐	CHEM ENG 1009 Materials I ☐	TECH 1006 Engineering Mechanics Technology ☐
Year 2				
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics ☐			
S 1	MATHS 1012 Mathematics IB ☐	ENG 1002 Programming (Matlab and C) ☐	MECH ENG 2100 Design Practice ☐	ELEC ENG 1101 Electronic Systems ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	MECH ENG 2002 Stress Analysis & Design ☐	MECH ENG 2019 Dynamics & Control I ☐	ECON 1009 International Financial Institutions & Markets ☐
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II ☐	MECH ENG 2021 Thermo-Fluids I ☐	COMP SCI 1102 Object Oriented Programming ☐	ACCTING 1002 Introductory Accounting I ☐
S 2	MECH ENG 2101 Mechatronics IM ☐	MECH ENG 3111 Acoustics and Vibrations ☐		CORPFIN 1002 Business Finance I ☐
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 ☐	COMP SCI 2103 Algorithm Design & Data Structures ☐	CORPFIN 2501 Financial Institutions Management II ☐	ECON 1012 Principles of Economics I ☐
S 2	ENG 3004 Systems Engineering & Industry Practice ☐	MECH ENG 3032 Micro-Controller Programming ☐	COMP SCI 3012 Distributed Systems ☐	MATHS 3012 Financial Modelling: Tools & Techniques III **or** CORPFIN 3502 Options, Futures & Risk Management III ☐
Year 5				
S 1	ENG 3005 Research Method & Project Management ☐	COMP SCI 3001 Computer Networks & Applications ☐	CORPFIN 2502 Business Valuation II ☐	MATHS 2103 Probability & Statistics II **or** ECON 2515 Intermediate Applied Econometrics II ☐
S 2	ENG 4001A Research Project Part A ☐	ELEC ENG 4107 Autonomous Systems ☐	Level III Finance Elective ☐	CORPFIN 3501 Portfolio Theory & Management III ☐
Year 6				
S 1	ENG 4001B Research Project Part B ☐	Elective Year 4 (see elective table) ☐	Level III Finance Elective ☐	ECON 2508 Financial Economics II ☐

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.

THE UNIVERSITY of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2021 Study Plan

Bachelor of Engineering (Honours) (Mechanical) - Sports Engineering Major with Bachelor of Finance

Year 1				
S 2	MATHS 1011 Mathematics IA ☐	^ENG 1001 Introduction to Engineering ☐	CHEM ENG 1009 Materials I ☐	TECH 1006 Engineering Mechanics Technology ☐
Year 2				
S S	*MECH ENG 1007 Engineering Mechanics – Dynamics ☐			
S 1	MATHS 1012 Mathematics IB ☐	ENG 1002 Programming (Matlab and C) ☐	MECH ENG 2100 Design Practice ☐	ELEC ENG 1101 Electronic Systems ☐
S 2	MATHS 2107 Statistics & Numerical Methods II ☐	MECH ENG 2002 Stress Analysis & Design ☐	MECH ENG 2019 Dynamics & Control I ☐	ECON 1009 International Financial Institutions & Markets ☐
Year 3				
S 1	MATHS 2106 Differential Equations for Engineers II ☐	MECH ENG 2021 Thermo-Fluids I ☐	ANAT SC 1102 Human Anatomy and Physiology IA ☐	ACCTING 1002 Introductory Accounting I ☐
S 2	MECH ENG 2101 Mechatronics IM ☐	MECH ENG 3111 Acoustics and Vibrations ☐		CORPFIN 1002 Business Finance I ☐
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 ☐	MECH ENG 3026 Advanced Mechanics of Materials ☐	CORPFIN 2501 Financial Institutions Management II ☐	ECON 1012 Principles of Economics I ☐
S 2	ENG 3004 Systems Engineering & Industry Practice ☐	MECH ENG 3101 Applied Aerodynamics ☐	Elective Year 4 (see elective table) ☐	MATHS 3012 Financial Modelling: Tools & Techniques III **or** CORPFIN 3502 Options, Futures & Risk Management III ☐
Year 5				
S 1	ENG 3005 Research Method & Project Management ☐	MECH ENG 3107 Sports Engineering II ☐	CORPFIN 2502 Business Valuation II ☐	MATHS 2103 Probability & Statistics II **or** ECON 2515 Intermediate Applied Econometrics II ☐
S 2	ENG 4001A Research Project Part A ☐	MECH ENG 4101 Biomechanical Engineering ☐	Level III Finance Elective ☐	CORPFIN 3501 Portfolio Theory & Management III ☐
Year 6				
S 1	ENG 4001B Research Project Part B ☐	MECH ENG 4104 Advanced Topics in Fluid Mechanics ☐	Level III Finance Elective ☐	ECON 2508 Financial Economics II ☐

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.

Mechanical Engineering Electives

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

Year 2					
S1	MECH ENG 2020	Materials & Manufacturing	**S2**	ELEC ENG 2106	Vector Calculus & Electromagnetics
	~~MECH ENG 2102~~	~~Sports Engineering I~~ *(not offered 2021)*			
Year 3					
S1	MECH ENG 3026	Advanced Mechanics of Materials	**S2**	ELEC ENG 3112	Electric Drive Systems M
	MECH ENG 3100	Aeronautical Engineering		ENG 3305	Human Factors for Decision Making
	MECH ENG 3103	Advanced Manufacturing Systems		ENTREP 3900	eChallenge
	MECH ENG 3106	Mechatronics II		MECH ENG 3032	Micro-Controller Programming
	MECH ENG 3107	Sports Engineering II		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~~	~~Renewable Power Technologies~~ *(not offered 2021)*	**S2**	MECH ENG 4100	Advanced Topics in Aerospace Engineering
	MECH ENG 4104	Advanced Topics in Fluid Mechanics		MECH ENG 4101	Biomechanical Engineering
	MECH ENG 4106	Aerospace Propulsion		MECH ENG 4102	Advanced PID Control
	MECH ENG 4111	CFD for Engineering Applications		MECH ENG 4105	Advanced Vibrations
	MECH ENG 4112	Combustion Technology & Emission Control		MECH ENG 4107	Air conditioning
	MECH ENG 4118	Finite Element Analysis of Structures		MECH ENG 4108	Aircraft Design
	MECH ENG 4121	Materials Selection & Failure Analysis		~~MECH ENG 4120~~	~~Fracture Mechanics~~ (*not offered 2021*)
	MECH ENG 4124	Robotics M		MECH ENG 4123	Advanced Digital Control
	ENG 3201	Essentials of Humanitarian Practice (TBC)		~~MECH ENG 4125~~	~~Stresses in Plates & Shells~~ (*not offered 2021*)
				ENG 3201	Essentials of Humanitarian Practice (TBC)
SUM	MECH ENG 4115	Engineering Acoustics			
	MECH ENG 4126	Topics in Welded Structures			