



THE UNIVERSITY
of ADELAIDE

Faculty of Engineering, Computer and Mathematical Sciences 2020 Study Plan

Bachelor of Engineering (Honours) (Mechanical) – All Majors with Bachelor of Finance

Semester 1 Start

[Bachelor of Engineering \(Honours\) \(Mechanical\) with Bachelor of Finance](#)

[Bachelor of Engineering \(Honours\) \(Mechanical\) - Renewable Energy Major with Bachelor of Finance](#)

[Bachelor of Engineering \(Honours\) \(Mechanical\) - Smart Technologies Major with Bachelor of Finance](#)

[Bachelor of Engineering \(Honours\) \(Mechanical\) - Defence Systems Major with Bachelor of Finance](#)

[Bachelor of Engineering \(Honours\) \(Mechanical\) - Medical Technologies Major with Bachelor of Finance](#)

[Bachelor of Engineering \(Honours\) \(Mechanical\) - Aerospace Engineering Major with Bachelor of Finance](#)

[Bachelor of Engineering \(Honours\) \(Mechanical\) - Mechanical Engineering Major with Bachelor of Finance](#)

[Bachelor of Engineering \(Honours\) \(Mechanical\) - Mechatronics and Robotics Major with Bachelor of Finance](#)

[Bachelor of Engineering \(Honours\) \(Mechanical\) - Sports Engineering Major with Bachelor of Finance](#)

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

Year 1				
S 1	# MATHS 1011 Mathematics IA <input type="checkbox"/>	^ ENG 1001 Introduction to Engineering <input type="checkbox"/>	CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>
S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	CHEM ENG 1009 Materials I <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics – Dynamics <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	MECH ENG 2100 Design Practice <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/>	ACCTING 1002 Introductory Accounting I <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"/>	ECON 1009 International Financial Institutions & Markets I <input type="checkbox"/>
Year 3				
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	CORPFIN 1002 Business Finance I <input type="checkbox"/>	ECON 1012 Principles of Economics I <input type="checkbox"/>
S 2	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II <input type="checkbox"/>	MECH ENG 3038 Computer Aided Engineering <input type="checkbox"/>	CORPFIN 2502 Business Valuation II <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 below elective table.				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	ECON 2508 Financial Economics II <input type="checkbox"/>	MATHS 2103 Probability & Statistics II or ECON 2504 Intermediate Econometrics II <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	CORPFIN 2501 Financial Institutions Management II <input type="checkbox"/>	MATHS 3012 Financial Modelling: Tools & Techniques III or CORPFIN 3502 Options, Futures & Risk Management III <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	CORPFIN 3501 Portfolio Theory & Management III <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>
Core Courses		Double Degree Courses		

Electives Table

CHOOSE FROM THE FOLLOWING MECHANICAL ENGINEERING ELECTIVES				
S1	MECH ENG 4102 Advanced PID Control <input type="checkbox"/>	MECH ENG 4105 Advanced Vibrations <input type="checkbox"/>	MECH ENG 4106 Aerospace Propulsion <input type="checkbox"/>	MECH 4112 Combustion Technology & Emission Control <input type="checkbox"/>
	MECH ENG 4118 Finite Element Analysis of Structures <input type="checkbox"/>	MECH ENG 4121 Materials Selection & Failure Analysis <input type="checkbox"/>	MECH ENG 4124 Robotics M <input type="checkbox"/>	MECH ENG 4104 Advanced Topics in Fluid Mechanics <input type="checkbox"/>
	ELEC ENG 3100 Systems Engineering <input type="checkbox"/>	ENTREP 3006 Energy Management, Economics & Policy <input type="checkbox"/>	MECH ENG 3026 Advanced Mechanics of Materials <input type="checkbox"/>	MECH ENG 3106 Mechatronics II <input type="checkbox"/>
	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>	MECH ENG 2020 Materials & Manufacturing <input type="checkbox"/>	MECH ENG 2102 Sports Engineering I <input type="checkbox"/>	MECH ENG 3100 Aeronautical Engineering <input type="checkbox"/>
	MECH ENG 3103 Advanced Manufacturing Systems <input type="checkbox"/>	MECH ENG 4111 CFD for Engineering Applications <input type="checkbox"/>	GEOG 2129 Introductory GIS <input type="checkbox"/>	
S2	MECH ENG 4100 Advanced Topics in Aerospace Engineering <input type="checkbox"/>	MECH ENG 4101 Biomechanical Engineering <input type="checkbox"/>	MECH ENG 4107 Air Conditioning <input type="checkbox"/>	MECH ENG 4108 Aircraft Design <input type="checkbox"/>
	MECH ENG 4125 Stresses in Plates & Shells <input type="checkbox"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>	ENTREP 3006 Energy Management, Economics & Policy <input type="checkbox"/>	MECH ENG 3032 Micro-Controller Programming <input type="checkbox"/>
	MECH ENG 3101 Applied Aerodynamics <input type="checkbox"/>	MECH ENG 4145 Sustainable Thermal Technologies <input type="checkbox"/>	MECH ENG 3104 Space Vehicle Design <input type="checkbox"/>	MECH ENG 3107 Sports Engineering II <input type="checkbox"/>
	MECH ENG 4140 Sports Engineering III <input type="checkbox"/>			
Summer	MECH ENG 4126 Topics in Welded Structures <input type="checkbox"/>	ENTREP 3006 Energy Management, Economics & Policy <input type="checkbox"/>	MECH ENG 4115 Engineering Acoustics <input type="checkbox"/>	
TBC	MECH ENG 4064 Renewable Power Technologies <input type="checkbox"/>	CEME 3007 Integrated Environment Planning and Impact Assessment <input type="checkbox"/>		

NOTES

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

Maths: Students who have not passed SACE Stage 2 Specialist Maths must enrol in MATHS 1013 Mathematics IM before enrolling in MATHS 1011 Mathematics IA. Manage your enrolment by completing MATHS 1013 Mathematics IM in semester 1 followed by MATHS 1011 Mathematics IA in semester 2 and MATHS 1012 Mathematics IB in summer school. MATHS 1013 Mathematics IM is in addition to the requirements of this program.

Internships: 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. Enrolment into 6 unit internship course opens from S1 2021. Internships are self-sourced and resources are available through Careers Service. Register with CareerHub to access a database where opportunities are posted

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

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

Year 1				
S 1	# MATHS 1011 Mathematics IA <input type="checkbox"/>	^ ENG 1001 Introduction to Engineering <input type="checkbox"/>	CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>
S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	CHEM ENG 1009 Materials I <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics – Dynamics <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	MECH ENG 2100 Design Practice <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/>	ACCTING 1002 Introductory Accounting I <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"/>	ECON 1009 International Financial Institutions & Markets I <input type="checkbox"/>
Year 3				
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	MECH ENG 2020 - Materials & Manufacturing <input type="checkbox"/>	CORPFIN 1002 Business Finance I <input type="checkbox"/>	ECON 1012 Principles of Economics I <input type="checkbox"/>
S 2	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II <input type="checkbox"/>	MECH ENG 3038 Computer Aided Engineering <input type="checkbox"/>	CORPFIN 2502 Business Valuation II <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 below elective table.				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	ECON 2508 Financial Economics II <input type="checkbox"/>	MATHS 2103 Probability & Statistics II or ECON 2504 Intermediate Econometrics II <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	ELEC ENG 4111 Distributed Generation Technologies <input type="checkbox"/>	CORPFIN 2501 Financial Institutions Management II <input type="checkbox"/>	MATHS 3012 Financial Modelling: Tools & Techniques III or CORPFIN 3502 Options, Futures & Risk Management III <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	MECH ENG 4064 Renewable Power Technologies <input type="checkbox"/>	MECH ENG 4112 Combustion Technology & Emission Control <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	CHEM ENG 4048 Biofuels, Biomass and Wastes <input type="checkbox"/>	CORPFIN 3501 Portfolio Theory & Management III <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>
Core Courses	Major Courses	Double Degree Courses		

Electives Table

CHOOSE FROM THE FOLLOWING MECHANICAL ENGINEERING ELECTIVES				
S1	MECH ENG 4102 Advanced PID Control <input type="checkbox"/>	MECH ENG 4105 Advanced Vibrations <input type="checkbox"/>	ELEC ENG 3100 Systems Engineering <input type="checkbox"/>	MECH ENG 3106 Mechatronics II <input type="checkbox"/>
	MECH ENG 4121 Materials Selection & Failure Analysis <input type="checkbox"/>	MECH ENG 2102 Sports Engineering I <input type="checkbox"/>	MECH ENG 3026 Advanced Mechanics of Materials <input type="checkbox"/>	MECH ENG 3100 Aeronautical Engineering <input type="checkbox"/>
	MECH ENG 3103 Advanced Manufacturing Systems <input type="checkbox"/>	MECH ENG 4104 Advanced Topics in Fluid Mechanics <input type="checkbox"/>	MECH ENG 4106 Aerospace Propulsion <input type="checkbox"/>	MECH ENG 4118 Finite Element Analysis of Structures <input type="checkbox"/>
	MECH ENG 4124 Robotics M <input type="checkbox"/>	MECH ENG 4111 CFD for Engineering Applications <input type="checkbox"/>	GEOG 2129 Introductory GIS <input type="checkbox"/>	
S2	MECH ENG 3032 Micro-Controller Programming <input type="checkbox"/>	MECH ENG 4125 Stresses in Plates & Shells <input type="checkbox"/>	MECH ENG 3101 Applied Aerodynamics <input type="checkbox"/>	MECH ENG 4100 Advanced Topics in Aerospace Engineering <input type="checkbox"/>
	MECH ENG 4101 Biomechanical Engineering <input type="checkbox"/>	MECH ENG 4107 Air conditioning <input type="checkbox"/>	MECH ENG 4108 Aircraft Design <input type="checkbox"/>	MECH ENG 4145 Sustainable Thermal Technologies <input type="checkbox"/>
	MECH ENG 4123 Advanced Digital Control <input type="checkbox"/>	MECH ENG 3104 Space Vehicle Design <input type="checkbox"/>	MECH ENG 3107 Sports Engineering II <input type="checkbox"/>	MECH ENG 4140 Sports Engineering III <input type="checkbox"/>
Summer	MECH ENG 4126 Topics in Welded Structures <input type="checkbox"/>	MECH ENG 4115 Engineering Acoustics <input type="checkbox"/>		

NOTES

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Maths: Students who have not passed SACE Stage 2 Specialist Maths must enrol in MATHS 1013 Mathematics IM before enrolling in MATHS 1011 Mathematics IA. Manage your enrolment by completing MATHS 1013 Mathematics IM in semester 1 followed by MATHS 1011 Mathematics IA in semester 2 and MATHS 1012 Mathematics IB in summer school. MATHS 1013 Mathematics IM is in addition to the requirements of this program.

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

Year 1				
S 1	# MATHS 1011 Mathematics IA <input type="checkbox"/>	^ ENG 1001 Introduction to Engineering <input type="checkbox"/>	CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>
S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	CHEM ENG 1009 Materials I <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics – Dynamics <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	MECH ENG 2100 Design Practice <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/>	ACCTING 1002 Introductory Accounting I <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"/>	ECON 1009 International Financial Institutions & Markets I <input type="checkbox"/>
Year 3				
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>	CORPFIN 1002 Business Finance I <input type="checkbox"/>	ECON 1012 Principles of Economics I <input type="checkbox"/>
S 2	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II <input type="checkbox"/>	MECH ENG 3038 Computer Aided Engineering <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures <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 notes below.				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	CORPFIN 2502 Business Valuation II <input type="checkbox"/>	ECON 2508 Financial Economics II <input type="checkbox"/>	MATHS 2103 Probability & Statistics II or ECON 2504 Intermediate Econometrics II <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	MECH ENG 3032 Micro-Controller Programming <input type="checkbox"/>	CORPFIN 2501 Financial Institutions Management II <input type="checkbox"/>	MATHS 3012 Financial Modelling: Tools & Techniques III or CORPFIN 3502 Options, Futures & Risk Management III <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	COMP SCI 3001 Computer Networks & Applications <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	ELEC ENG 4107 Autonomous Systems <input type="checkbox"/>	COMP SCI 3012 Distributed Systems <input type="checkbox"/>	CORPFIN 3501 Portfolio Theory & Management III <input type="checkbox"/>
Core Courses	Major Courses	Double Degree Courses		

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Maths: Students who have not passed SACE Stage 2 Specialist Maths must enrol in MATHS 1013 Mathematics IM before enrolling in MATHS 1011 Mathematics IA. Manage your enrolment by completing MATHS 1013 Mathematics IM in semester 1 followed by MATHS 1011 Mathematics IA in semester 2 and MATHS 1012 Mathematics IB in summer school. MATHS 1013 Mathematics IM is in addition to the requirements of this program.

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

Year 1				
S 1	# MATHS 1011 Mathematics IA <input type="checkbox"/>	^ ENG 1001 Introduction to Engineering <input type="checkbox"/>	CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>
S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	CHEM ENG 1009 Materials I <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics – Dynamics <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	MECH ENG 2100 Design Practice <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/>	ACCTING 1002 Introductory Accounting I <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"/>	ECON 1009 International Financial Institutions & Markets I <input type="checkbox"/>
Year 3				
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	MECH ENG 2020 Materials & Manufacturing <input type="checkbox"/>	CORPFIN 1002 Business Finance I <input type="checkbox"/>	ECON 1012 Principles of Economics I <input type="checkbox"/>
S 2	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II <input type="checkbox"/>	MECH ENG 3038 Computer Aided Engineering <input type="checkbox"/>	ENG 3305 Human Factors for Decision Making <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 notes below.				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	POLIS 1104 Introduction to Comparative Politics <input type="checkbox"/>	ENG 4010 Defence Leadership <input type="checkbox"/>	MECH ENG 3026 Advanced Mechanics of Materials <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	CORPFIN 2502 Business Valuation II <input type="checkbox"/>	CORPFIN 2501 Financial Institutions Management II <input type="checkbox"/>	MATHS 3012 Financial Modelling: Tools & Techniques III or CORPFIN 3502 Options, Futures & Risk Management III <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	ENG 4020 Complex Systems Engineering <input type="checkbox"/>	ECON 2508 Financial Economics II <input type="checkbox"/>	MATHS 2103 Probability & Statistics II or ECON 2504 Intermediate Econometrics II <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>	CORPFIN 3501 Portfolio Theory & Management III <input type="checkbox"/>
Core Courses	Major Courses	Double Degree Courses		

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Maths: Students who have not passed SACE Stage 2 Specialist Maths must enrol in MATHS 1013 Mathematics IM before enrolling in MATHS 1011 Mathematics IA. Manage your enrolment by completing MATHS 1013 Mathematics IM in semester 1 followed by MATHS 1011 Mathematics IA in semester 2 and MATHS 1012 Mathematics IB in summer school. MATHS 1013 Mathematics IM is in addition to the requirements of this program.

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

Year 1				
S 1	# MATHS 1011 Mathematics IA <input type="checkbox"/>	^ ENG 1001 Introduction to Engineering <input type="checkbox"/>	CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>
S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	CHEM ENG 1009 Materials I <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics – Dynamics <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	MECH ENG 2100 Design Practice <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/>	ACCTING 1002 Introductory Accounting I <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"/>	ECON 1009 International Financial Institutions & Markets I <input type="checkbox"/>
Year 3				
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	ANAT SC 1102 Human Anatomy and Physiology IA <input type="checkbox"/>	CORPFIN 1002 Business Finance I <input type="checkbox"/>	ECON 1012 Principles of Economics I <input type="checkbox"/>
S 2	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II <input type="checkbox"/>	MECH ENG 3038 Computer Aided Engineering <input type="checkbox"/>	CORPFIN 2502 Business Valuation II <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 notes below.				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	ENG 3101 Introduction to Medical Technologies <input type="checkbox"/>	ECON 2508 Financial Economics II <input type="checkbox"/>	MATHS 2103 Probability & Statistics II or ECON 2504 Intermediate Econometrics II <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	ANAT SC 2009 Musculoskeletal Anatomy <input type="checkbox"/>	CORPFIN 2501 Financial Institutions Management II <input type="checkbox"/>	MATHS 3012 Financial Modelling: Tools & Techniques III or CORPFIN 3502 Options, Futures & Risk Management III <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	PHYSIOL 2510 Physiology IIA <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	ELEC ENG 4115 Biomedical Instrumentation <input type="checkbox"/>	MECH ENG 4101 Biomechanical Engineering <input type="checkbox"/>	CORPFIN 3501 Portfolio Theory & Management III <input type="checkbox"/>
Core Courses	Major Courses	Double Degree Courses		

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

Year 1				
S 1	# MATHS 1011 Mathematics IA <input type="checkbox"/>	^ ENG 1001 Introduction to Engineering <input type="checkbox"/>	CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>
S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	CHEM ENG 1009 Materials I <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics – Dynamics <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	MECH ENG 2100 Design Practice <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/>	ACCTING 1002 Introductory Accounting I <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"/>	ECON 1009 International Financial Institutions & Markets I <input type="checkbox"/>
Year 3				
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	MECH ENG 2020 Materials & Manufacturing <input type="checkbox"/>	CORPFIN 1002 Business Finance I <input type="checkbox"/>	ECON 1012 Principles of Economics I <input type="checkbox"/>
S 2	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II <input type="checkbox"/>	MECH ENG 3038 Computer Aided Engineering <input type="checkbox"/>	CORPFIN 2502 Business Valuation II <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 notes below.				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	MECH ENG 3100 Aeronautical Engineering <input type="checkbox"/>	ECON 2508 Financial Economics II <input type="checkbox"/>	MATHS 2103 Probability & Statistics II or ECON 2504 Intermediate Econometrics II <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	MECH ENG 3101 Applied Aerodynamics <input type="checkbox"/>	CORPFIN 2501 Financial Institutions Management II <input type="checkbox"/>	MATHS 3012 Financial Modelling: Tools & Techniques III or CORPFIN 3502 Options, Futures & Risk Management III <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	MECH ENG 4106 Aerospace Propulsion <input type="checkbox"/>	MECH ENG 3026 Advanced Mechanics of Materials <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	MECH ENG 4108 Aircraft Design <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>	CORPFIN 3501 Portfolio Theory & Management III <input type="checkbox"/>
Core Courses		Major Courses		Double Degree Courses

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

Year 1				
S 1	# MATHS 1011 Mathematics IA <input type="checkbox"/>	^ ENG 1001 Introduction to Engineering <input type="checkbox"/>	CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>
S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	CHEM ENG 1009 Materials I <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics – Dynamics <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	MECH ENG 2100 Design Practice <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/>	ACCTING 1002 Introductory Accounting I <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"/>	ECON 1009 International Financial Institutions & Markets I <input type="checkbox"/>
Year 3				
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	MECH ENG 2020 Materials & Manufacturing <input type="checkbox"/>	CORPFIN 1002 Business Finance I <input type="checkbox"/>	ECON 1012 Principles of Economics I <input type="checkbox"/>
S 2	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II <input type="checkbox"/>	MECH ENG 3038 Computer Aided Engineering <input type="checkbox"/>	CORPFIN 2502 Business Valuation II <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 notes below.				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	MECH ENG 3103 Advanced Manufacturing Systems <input type="checkbox"/>	MECH ENG 3026 Advanced Mechanics of Materials <input type="checkbox"/>	ECON 2508 Financial Economics II <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	MECH ENG 3101 Applied Aerodynamics <input type="checkbox"/>	CORPFIN 2501 Financial Institutions Management II <input type="checkbox"/>	MATHS 3012 Financial Modelling: Tools & Techniques III or CORPFIN 3502 Options, Futures & Risk Management III <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	MECH ENG 4118 Finite Element Analysis of Structures <input type="checkbox"/>	MECH ENG 4111 CFD for Engineering Applications <input type="checkbox"/>	MATHS 2103 Probability & Statistics II or ECON 2504 Intermediate Econometrics II <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>	CORPFIN 3501 Portfolio Theory & Management III <input type="checkbox"/>
Core Courses	Major Courses	Double Degree Courses		

NOTES

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

Maths: Students who have not passed SACE Stage 2 Specialist Maths must enrol in MATHS 1013 Mathematics IM before enrolling in MATHS 1011 Mathematics IA. Manage your enrolment by completing MATHS 1013 Mathematics IM in semester 1 followed by MATHS 1011 Mathematics IA in semester 2 and MATHS 1012 Mathematics IB in summer school. MATHS 1013 Mathematics IM is in addition to the requirements of this program.

Internships: 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. Enrolment into 6 unit internship course opens from S1 2021. Internships are self-sourced and resources are available through [Careers Service](#). Register with CareerHub to access a database where opportunities are posted.

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>

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

Year 1				
S 1	# MATHS 1011 Mathematics IA <input type="checkbox"/>	^ ENG 1001 Introduction to Engineering <input type="checkbox"/>	CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>
S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	CHEM ENG 1009 Materials I <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics – Dynamics <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	MECH ENG 2100 Design Practice <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/>	ACCTING 1002 Introductory Accounting I <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"/>	ECON 1009 International Financial Institutions & Markets I <input type="checkbox"/>
Year 3				
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	ELEC ENG 2105 Electronic Circuits M <input type="checkbox"/>	CORPFIN 1002 Business Finance I <input type="checkbox"/>	ECON 1012 Principles of Economics I <input type="checkbox"/>
S 2	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II <input type="checkbox"/>	MECH ENG 3038 Computer Aided Engineering <input type="checkbox"/>	CORPFIN 2502 Business Valuation II <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 notes below.				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	MECH ENG 3103 Advanced Manufacturing Systems <input type="checkbox"/>	ECON 2508 Financial Economics II <input type="checkbox"/>	MATHS 2103 Probability & Statistics II or ECON 2504 Intermediate Econometrics II <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	MECH ENG 3032 Micro-Controller Programming <input type="checkbox"/>	CORPFIN 2501 Financial Institutions Management II <input type="checkbox"/>	MATHS 3012 Financial Modelling: Tools & Techniques III or CORPFIN 3502 Options, Futures & Risk Management III <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	MECH ENG 4102 Advanced PID Control <input type="checkbox"/>	MECH ENG 4124 Robotics M <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	MECH ENG 3106 Mechatronics II <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>	CORPFIN 3501 Portfolio Theory & Management III <input type="checkbox"/>

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Maths: Students who have not passed SACE Stage 2 Specialist Maths must enrol in MATHS 1013 Mathematics IM before enrolling in MATHS 1011 Mathematics IA. Manage your enrolment by completing MATHS 1013 Mathematics IM in semester 1 followed by MATHS 1011 Mathematics IA in semester 2 and MATHS 1012 Mathematics IB in summer school. MATHS 1013 Mathematics IM is in addition to the requirements of this program.

Internships: 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. Enrolment into 6 unit internship course opens from S1 2021. Internships are self-sourced and resources are available through [Careers Service](#). Register with CareerHub to access a database where opportunities are posted.

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

Year 1				
S 1	# MATHS 1011 Mathematics IA <input type="checkbox"/>	^ ENG 1001 Introduction to Engineering <input type="checkbox"/>	CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>
S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	CHEM ENG 1009 Materials I <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics – Dynamics <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	MECH ENG 2100 Design Practice <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/>	ACCTING 1002 Introductory Accounting I <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"/>	ECON 1009 International Financial Institutions & Markets I <input type="checkbox"/>
Year 3				
S 1	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	MECH ENG 2102 Sports Engineering I <input type="checkbox"/>	CORPFIN 1002 Business Finance I <input type="checkbox"/>	ECON 1012 Principles of Economics I <input type="checkbox"/>
S 2	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II <input type="checkbox"/>	MECH ENG 3038 Computer Aided Engineering <input type="checkbox"/>	CORPFIN 2502 Business Valuation II <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 notes below.				
Year 4				
S 1	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	MECH ENG 3101 Applied Aerodynamics <input type="checkbox"/>	ECON 2508 Financial Economics II <input type="checkbox"/>	MATHS 2103 Probability & Statistics II or ECON 2504 Intermediate Econometrics II <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	MECH ENG 3107 Sports Engineering II <input type="checkbox"/>	CORPFIN 2501 Financial Institutions Management II <input type="checkbox"/>	MATHS 3012 Financial Modelling: Tools & Techniques III or CORPFIN 3502 Options, Futures & Risk Management III <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	MECH ENG 3103 Advanced Manufacturing Systems <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>	Level III Finance Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	MECH ENG 4101 Biomechanical Engineering <input type="checkbox"/>	MECH ENG 4140 Sports Engineering III <input type="checkbox"/>	CORPFIN 3501 Portfolio Theory & Management III <input type="checkbox"/>
Core Courses	Major Courses	Double Degree Courses		

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Maths: Students who have not passed SACE Stage 2 Specialist Maths must enrol in MATHS 1013 Mathematics IM before enrolling in MATHS 1011 Mathematics IA. Manage your enrolment by completing MATHS 1013 Mathematics IM in semester 1 followed by MATHS 1011 Mathematics IA in semester 2 and MATHS 1012 Mathematics IB in summer school. MATHS 1013 Mathematics IM is in addition to the requirements of this program.

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