

**Bachelor of Engineering (Honours)(Mechanical) – All Majors**

Semester 2 Start

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

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

[Bachelor of Engineering \(Honours\) \(Mechanical\) – Defence Systems Major](#)

[Bachelor of Engineering \(Honours\) \(Mechanical\) – Mechanical Engineering Major](#)

[Bachelor of Engineering \(Honours\) \(Mechanical\) – Mechatronics and Robotics Major](#)

[Bachelor of Engineering \(Honours\) \(Mechanical\) – Medical Technologies Major](#)

[Bachelor of Engineering \(Honours\) \(Mechanical\) – Renewable Energy Major](#)

[Bachelor of Engineering \(Honours\) \(Mechanical\) – Smart Technologies Major](#)

[Bachelor of Engineering \(Honours\) \(Mechanical\) – Sports Engineering Major](#)

## Bachelor of Engineering (Honours) (Mechanical) – Semester 2 Start

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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"/>	MECH ENG 1007 Engineering Mechanics – Dynamics <input type="checkbox"/>
Year 2				
S 1	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	CEME 1004 Engineering Mechanics- Statics <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"/>	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>
Year 3				
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"/>	General Elective <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II <input type="checkbox"/>	General Elective <input type="checkbox"/>	General Elective <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 4001A Research Project Part 1 <input type="checkbox"/>	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	MECH ENG 3038 Computer Aided Engineering <input type="checkbox"/>
S 2	ENG 4001B Research Project Part 2 <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Mechanical Engineering Elective (see elective table below) <input type="checkbox"/>
Year 5				
S 1	General Elective <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>
S 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## 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

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**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.

**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>

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## Bachelor of Engineering (Honours) (Mechanical) - Aerospace Engineering Major – Semester 2 Start

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S 2	MATHS 1011 Mathematics IA <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 1012 Mathematics IB <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 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"/>	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>
Year 3				
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"/>	MECH ENG 2020 Materials and Manufacturing <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II <input type="checkbox"/>	MECH ENG 3038 Computer Aided Engineering <input type="checkbox"/>	MECH ENG 3101 Applied Aerodynamics <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 4001A Research Project Part 1 <input type="checkbox"/>	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	MECH ENG 3026 Advanced Mechanics of Materials <input type="checkbox"/>	MECH ENG 3100 Aeronautical Engineering <input type="checkbox"/>
S 2	ENG 4001B Research Project Part 2 <input type="checkbox"/>	MECH ENG 4108 Aircraft Design <input type="checkbox"/>	Mechanical Engineering Elective (see elective table below) <input type="checkbox"/>	Mechanical Engineering Elective (see elective table below) <input type="checkbox"/>
Year 5				
S 1	MECH ENG 4106 Aerospace Propulsion <input type="checkbox"/>	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>
S 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Electives Table

### CHOOSE FROM THE FOLLOWING MECHANICAL ENGINEERING ELECTIVES

S1	MECH ENG 2020 Materials & Manufacturing <input type="checkbox"/>	MECH ENG 3103 Advanced Manufacturing Systems <input type="checkbox"/>	MECH ENG 3106 Mechatronics II <input type="checkbox"/>	ELEC ENG 3100 Systems Engineering <input type="checkbox"/>
	MECH ENG 4102 Advanced PID Control <input type="checkbox"/>	MECH ENG 4105 Advanced Vibrations <input type="checkbox"/>	MECH ENG 4118 - Finite Element Analysis of Structures <input type="checkbox"/>	MECH ENG 4121 Materials Selection & Failure Analysis <input type="checkbox"/>
S2	MECH ENG 3032 Micro-Controller Processing <input type="checkbox"/>	MECH ENG 4101 Biomechanical Engineering <input type="checkbox"/>	MECH ENG 4123 Advanced Digital Control <input type="checkbox"/>	MECH ENG 4107 Air Conditioning <input type="checkbox"/>

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Bachelor of Engineering (Honours) (Mechanical) - Defence Systems Major  
– Semester 2 Start

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S 2	MATHS 1011 Mathematics IA <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 1012 Mathematics IB <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 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"/>	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>
Year 3				
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"/>	MECH ENG 2020 Materials & Manufacturing <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <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 note below elective table.				
Year 4				
S 1	ENG 4001A Research Project Part 1 <input type="checkbox"/>	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	MECH ENG 3026 Advanced Mechanics of Materials <input type="checkbox"/>
S 2	ENG 4001B Research Project Part 2 <input type="checkbox"/>	Mechanical Engineering Elective (see elective table below) <input type="checkbox"/>	Mechanical Engineering Elective (see elective table below) <input type="checkbox"/>	Mechanical Engineering Elective (see elective table below) <input type="checkbox"/>
Year 5				
S 1	POLIS 1104 Introduction to Comparative Politics <input type="checkbox"/>	ENG 4020 Complex Systems Engineering <input type="checkbox"/>	ENG 4010 Defence Leadership <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>
S 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Electives Table

### CHOOSE FROM THE FOLLOWING MECHANICAL ENGINEERING ELECTIVES

S1	MECH ENG 4105 Advanced Vibrations <input type="checkbox"/>	ENTREP 3006 Energy Management, Economics & Policy <input type="checkbox"/>	MECH ENG 3103 Advanced Manufacturing Systems <input type="checkbox"/>	MECH ENG 3106 Mechatronics II <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 2102 Sports Engineering I <input type="checkbox"/>	MECH ENG 3100 Aeronautical Engineering <input type="checkbox"/>
	MECH ENG 4102 Advanced PID Control <input type="checkbox"/>	MECH ENG 4104 Advanced Topics in Fluid Mechanics <input type="checkbox"/>	MECH ENG 4106 Aerospace Propulsion <input type="checkbox"/>	MECH ENG 4112 Combustion Technology & Emission Control <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 4107 Air Conditioning <input type="checkbox"/>	MECH ENG 3101 Applied Aerodynamics <input type="checkbox"/>	MECH ENG 4100 Advanced Topics in Aerospace Engineering <input type="checkbox"/>
	MECH ENG 4125 Stresses in Plates & Shells <input type="checkbox"/>	MECH ENG 4145 Sustainable Thermal Technologies <input type="checkbox"/>	MECH ENG 4101 Biomechanical Engineering <input type="checkbox"/>	MECH ENG 4108 Aircraft Design <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"/>	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"/>			

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Bachelor of Engineering (Honours) (Mechanical) - Mechanical Engineering Major  
– Semester 2 Start

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S 2	MATHS 1011 Mathematics IA <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 1012 Mathematics IB <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 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"/>	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>
Year 3				
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"/>	MECH ENG 2020 Materials and Manufacturing <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II <input type="checkbox"/>	MECH ENG 3038 Computer Aided Engineering <input type="checkbox"/>	Mechanical Engineering Elective (see elective table below) <input type="checkbox"/>
Internship				
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Year 4				
S 1	ENG 4001A Research Project Part 1 <input type="checkbox"/>	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	MECH ENG 3101 Applied Aerodynamics <input type="checkbox"/>
S 2	ENG 4001B Research Project Part 2 <input type="checkbox"/>	MECH ENG 4121 Materials Selection & Failure Analysis <input type="checkbox"/>	Mechanical Engineering Elective (see elective table below) <input type="checkbox"/>	Mechanical Engineering Elective (see elective table below) <input type="checkbox"/>
Year 5				
S 1	MECH ENG 3103 Advanced Manufacturing Systems <input type="checkbox"/>	MECH ENG 4118 Finite Element Analysis of Structures <input type="checkbox"/>	MECH ENG 3026 Advanced Mechanics of Materials <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>
S 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



## Electives Table

CHOOSE FROM THE FOLLOWING MECHANICAL ENGINEERING ELECTIVES				
S1	MECH ENG 4124 Robotics M <input type="checkbox"/>	ENTREP 3006 Energy Management, Economics & Policy <input type="checkbox"/>	MECH ENG 3106 Mechatronics II <input type="checkbox"/>	ELEC ENG 3100 Systems Engineering <input type="checkbox"/>
	MECH ENG 3100 Aeronautical Engineering <input type="checkbox"/>	MECH ENG 4102 Advanced PID Control <input type="checkbox"/>	MECH ENG 4104 Advanced Topics in Fluid Mechanics <input type="checkbox"/>	MECH ENG 4105 Advanced Vibrations <input type="checkbox"/>
	MECH ENG 4106 Aerospace Propulsion <input type="checkbox"/>	MECH ENG 4112 Combustion Technology & Emission Control <input type="checkbox"/>	MECH ENG 2102 Sports Engineering I <input type="checkbox"/>	MECH ENG 4121 Materials Selection & Failure Analysis
	GEOG 2129 Introductory GIS <input type="checkbox"/>	DEVT 2100 - Poverty and Social Development <input type="checkbox"/>		
S2	MECH ENG 3032 Micro-Controller Processing <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 4123 Advanced Digital Control <input type="checkbox"/>	MECH ENG 4125 Stresses in Plates & Shells <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	CEME 3007 Integrated Environment Planning & Impact Assessment <input type="checkbox"/>			

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# Bachelor of Engineering (Honours) (Mechanical) - Mechatronics and Robotics Major – Semester 2 Start

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S 2	MATHS 1011 Mathematics IA <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 1012 Mathematics IB <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 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"/>	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>
Year 3				
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"/>	ELEC ENG 2105 Electronic Circuits M <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II <input type="checkbox"/>	MECH ENG 3032 Micro-Controller Programming <input type="checkbox"/>	Mechanical Engineering Elective (see elective table below) <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 4001A Research Project Part 1 <input type="checkbox"/>	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	MECH ENG 3106 Mechatronics II <input type="checkbox"/>
S 2	ENG 4001B Research Project Part 2 <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	MECH ENG 3038 Computer Aided Engineering <input type="checkbox"/>	Mechanical Engineering Elective (see elective table below) <input type="checkbox"/>
Year 5				
S 1	MECH ENG 3103 Advanced Manufacturing Systems <input type="checkbox"/>	MECH ENG 4102 Advanced PID Control <input type="checkbox"/>	MECH ENG 4124 Robotics M <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>
S 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Electives Table

CHOOSE FROM THE FOLLOWING MECHANICAL ENGINEERING ELECTIVES				
S1	ENTREP 3006 Energy Management, Economics & Policy <input type="checkbox"/>	MECH ENG 2020 - Materials & Manufacturing <input type="checkbox"/>	MECH ENG 3100 Aeronautical Engineering <input type="checkbox"/>	MECH ENG 4104 Advanced Topics in Fluid Mechanics <input type="checkbox"/>
	MECH ENG 4105 Advanced Vibrations <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 2102 Sports Engineering I <input type="checkbox"/>
	MECH ENG 3026 Advanced Mechanics of Materials <input type="checkbox"/>	MECH ENG 4106 Aerospace Propulsion <input type="checkbox"/>	MECH ENG 4112 Combustion Technology & Emission Control <input type="checkbox"/>	MECH ENG 4111 CFD for Engineering Applications <input type="checkbox"/>
	GEOG 2129 Introductory GIS <input type="checkbox"/>	DEVT 2100 - Poverty and Social Development <input type="checkbox"/>		
S2	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 4123 Advanced Digital Control <input type="checkbox"/>	MECH ENG 4125 Stresses in Plates & Shells <input type="checkbox"/>	MECH ENG 4145 Sustainable Thermal Technologies <input type="checkbox"/>	MECH ENG 4108 Aircraft Design <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"/>			
TBC	MECH ENG 4064 Renewable Power Technologies <input type="checkbox"/>	MECH ENG 4115 Engineering Acoustics <input type="checkbox"/>	ENTREP 3006 Energy Management, Economics & Policy <input type="checkbox"/>	

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Bachelor of Engineering (Honours) (Mechanical) - Medical Technologies Major  
– Semester 2 Start

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S 2	MATHS 1011 Mathematics IA <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 1012 Mathematics IB <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 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"/>	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>
Year 3				
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"/>	ANAT SC 1102 Human Anatomy and Physiology IA <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II <input type="checkbox"/>	MECH ENG 3038 Computer Aided Engineering <input type="checkbox"/>	ANAT SC 2009 Musculoskeletal Anatomy <input type="checkbox"/>
Internship				
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Year 4				
S 1	ENG 4001A Research Project Part 1 <input type="checkbox"/>	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	ENG 3101 Introduction to Medical Technologies <input type="checkbox"/>
S 2	ENG 4001B Research Project Part 2 <input type="checkbox"/>	ELEC ENG 4115 Biomedical Instrumentation <input type="checkbox"/>	MECH ENG 4101 Biomechanical Engineering <input type="checkbox"/>	Mechanical Engineering Elective (see elective table below) <input type="checkbox"/>
Year 5				
S 1	PHYSIOL 2510 Physiology IIA <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>
S 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Electives Table

CHOOSE FROM THE FOLLOWING MECHANICAL ENGINEERING ELECTIVES			
S1	MECH ENG 3103 Advanced Manufacturing Systems <input type="checkbox"/>	MECH ENG 3106 Mechatronics II <input type="checkbox"/>	MECH ENG 4121 Materials Selection & Failure Analysis <input type="checkbox"/>
S2	MECH ENG 3032 Micro-Controller Programming <input type="checkbox"/>	MECH ENG 4123 Advanced Digital Control <input type="checkbox"/>	MECH ENG 4124 Robotics M <input type="checkbox"/>

### NOTES

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**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) - Renewable Energy Major  
– Semester 2 Start

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S 2	MATHS 1011 Mathematics IA <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 1012 Mathematics IB <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 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"/>	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>
Year 3				
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"/>	MECH ENG 2020 - Materials & Manufacturing <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II <input type="checkbox"/>	MECH ENG 3038 Computer Aided Engineering <input type="checkbox"/>	ELEC ENG 4111 Distributed Generation Technologies <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 4001A Research Project Part 1 <input type="checkbox"/>	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>
S 2	ENG 4001B Research Project Part 2 <input type="checkbox"/>	CHEM ENG 4048 Biofuels, Biomass and Wastes <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Mechanical Engineering Elective (see elective table below) <input type="checkbox"/>
Year 5				
S 1	MECH ENG 4064 Renewable Power Technologies <input type="checkbox"/>	MECH ENG 4112 Combustion Technology & Emission Control <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>
S 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## 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"/>	<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"/>	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Bachelor of Engineering (Honours) (Mechanical) - Smart Technologies Major  
– Semester 2 Start

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S 2	MATHS 1011 Mathematics IA <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 1012 Mathematics IB <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 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"/>	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>
Year 3				
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"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II <input type="checkbox"/>	MECH ENG 3038 Computer Aided Engineering <input type="checkbox"/>	MECH ENG 3032 Micro-Controller Programming <input type="checkbox"/>
Internship				
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Year 4				
S 1	ENG 4001A Research Project Part 1 <input type="checkbox"/>	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures <input type="checkbox"/>
S 2	ENG 4001B Research Project Part 2 <input type="checkbox"/>	ELEC ENG 4107 Autonomous Systems <input type="checkbox"/>	COMP SCI 3012 Distributed Systems <input type="checkbox"/>	Mechanical Engineering Elective (see elective table below) <input type="checkbox"/>
Year 5				
S 1	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	COMP SCI 3001 Computer Networks & Applications <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>
S 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



## Electives Table

### CHOOSE FROM THE FOLLOWING MECHANICAL ENGINEERING ELECTIVES

S1	MECH ENG 2020 Materials & Manufacturing <input type="checkbox"/>	MECH ENG 3103 Advanced Manufacturing Systems <input type="checkbox"/>	MECH ENG 3106 Mechatronics II <input type="checkbox"/>	MECH ENG 2102 Sports Engineering I <input type="checkbox"/>
	MECH ENG 4102 Advanced PID Control <input type="checkbox"/>	MECH ENG 4104 Advanced Topics in Fluid Mechanics <input type="checkbox"/>	MECH ENG 4105 Advanced Vibrations <input type="checkbox"/>	MECH ENG 4124 Robotics M <input type="checkbox"/>
	MECH ENG 3026 Advanced Mechanics of Materials <input type="checkbox"/>	MECH ENG 3100 Aeronautical Engineering <input type="checkbox"/>	MECH ENG 4106 Aerospace Propulsion <input type="checkbox"/>	MECH ENG 4112 Combustion Technology & Emission Control <input type="checkbox"/>
	MECH ENG 4118 Finite Element Analysis of Structures <input type="checkbox"/>			
S2	MECH ENG 4123 Advanced Digital Control <input type="checkbox"/>	MECH ENG 4145 Sustainable Thermal Technologies <input type="checkbox"/>	MECH ENG 2020 Materials & Manufacturing <input type="checkbox"/>	MECH ENG 3101 Applied Aerodynamics <input type="checkbox"/>
	MECH ENG 4100 Advanced Topics in Aerospace Engineering <input type="checkbox"/>	MECH ENG 4107 Air conditioning <input type="checkbox"/>	MECH ENG 4108 Aircraft Design <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"/>		
TBC	MECH ENG 4064 Renewable Power Technologies <input type="checkbox"/>	MECH ENG 4126 Topics in Welded Structures <input type="checkbox"/>	MECH ENG 4115 Engineering Acoustics <input type="checkbox"/>	

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## Bachelor of Engineering (Honours) (Mechanical) - Sports Engineering Major – Semester 2 Start

Year 1				
S 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
S 2	MATHS 1011 Mathematics IA <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 1012 Mathematics IB <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 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"/>	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>
Year 3				
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"/>	MECH ENG 2102 Sports Engineering <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II <input type="checkbox"/>	MECH ENG 3107 Sports Engineering II <input type="checkbox"/>	Mechanical Engineering Elective (see elective table below) <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 4001A Research Project Part 1 <input type="checkbox"/>	ENG 3004 Interdisciplinary Professional Practice <input type="checkbox"/>	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	MECH ENG 3103 Advanced Manufacturing Systems <input type="checkbox"/>
S 2	ENG 4001B Research Project Part 2 <input type="checkbox"/>	MECH ENG 4101 Biomechanical Engineering <input type="checkbox"/>	MECH ENG 4140 Sports Engineering III <input type="checkbox"/>	Mechanical Engineering Elective (see elective table below) <input type="checkbox"/>
Year 5				
S 1	MECH ENG 3101 Applied Aerodynamics <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>
S 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Electives Table

CHOOSE FROM THE FOLLOWING MECHANICAL ENGINEERING ELECTIVES				
S1	ENTREP 3006 Energy Management, Economics & Policy <input type="checkbox"/>	MECH ENG 2020 - Materials & Manufacturing <input type="checkbox"/>	MECH ENG 3106 Mechatronics II <input type="checkbox"/>	
S2	ELEC ENG 4115 Biomedical Instrumentation <input type="checkbox"/>	MECH ENG 3032 Micro-Controller Processing <input type="checkbox"/>	MECH ENG 4121 Materials Selection & Failure Analysis <input type="checkbox"/>	
Summer	ENTREP 3006 Energy Management, Economics & Policy <input type="checkbox"/>			

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