

Bachelor of Engineering (Honours) (Mechanical) – All Majors with Bachelor of Mathematical and Computer Sciences - Computer Science Major

Semester 2 Start

[Bachelor of Engineering \(Honours\) \(Mechanical\) with Bachelor of Mathematical and Computer Sciences - Computer Science Major](#)

[Bachelor of Engineering \(Honours\) \(Mechanical\) - Aerospace Engineering Major with Bachelor of Mathematical and Computer Sciences - Computer Science Major](#)

[Bachelor of Engineering \(Honours\) \(Mechanical\) – Defence Systems Major with Bachelor of Mathematical and Computer Sciences - Computer Science Major](#)

[Bachelor of Engineering \(Honours\) \(Mechanical\) – Mechanical Engineering Major with Bachelor of Mathematical and Computer Sciences - Computer Science Major](#)

[Bachelor of Engineering \(Honours\) \(Mechanical\) – Mechatronics and Robotics Major with Bachelor of Mathematical and Computer Sciences - Computer Science Major](#)

[Bachelor of Engineering \(Honours\) \(Mechanical\) – Medical Technologies Major with Bachelor of Mathematical and Computer Sciences - Computer Science Major](#)

[Bachelor of Engineering \(Honours\) \(Mechanical\) – Renewable Energy Major with Bachelor of Mathematical and Computer Sciences - Computer Science Major](#)

[Bachelor of Engineering \(Honours\) \(Mechanical\) – Smart Technologies Major with Bachelor of Mathematical and Computer Sciences - Computer Science Major](#)

[Bachelor of Engineering \(Honours\) \(Mechanical\) – Sports Engineering Major with Bachelor of Mathematical and Computer Sciences - Computer Science Major](#)

Bachelor of Engineering (Honours) (Mechanical) with Bachelor of Mathematical and Computer Sciences - Computer Science Major – Semester 2

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"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>
S 2	MECH ENG 3038 Computer Aided Engineering <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II <input type="checkbox"/>	General Elective <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures for Engineers <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"/>	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	COMP SCI 2000 Computer Systems <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	General Elective <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	General Elective <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Level III COMP SCI Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	General Elective <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Level III COMP SCI Elective <input type="checkbox"/>
Year 6				



S 1	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Level III COMP SCI Elective <input type="checkbox"/>	Level III COMP SCI 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"/>	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"/>			
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"/>		
Summer	MECH ENG 4126 Topics in Welded Structures <input type="checkbox"/>	ENTREP 3006 Energy Management, Economics & Policy <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

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>



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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

Faculty of Engineering, Computer and Mathematical Sciences

2020 Study Plan

Information and Enrolment Advice:

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



Bachelor of Engineering (Honours) (Mechanical) - Aerospace Engineering Major with Bachelor of Mathematical and Computer Sciences - Computer Science Major – Semester 2

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"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>
S 2	MECH ENG 3038 Computer Aided Engineering <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures for Engineers <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"/>	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	MECH ENG 2020 Materials & Manufacturing <input type="checkbox"/>	COMP SCI 2000 Computer Systems <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>	MECH ENG 3101 Applied Aerodynamics <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	MECH ENG 3100 Aeronautical Engineering <input type="checkbox"/>	MECH ENG 3026 Advanced Mechanics of Materials <input type="checkbox"/>	Level III COMP SCI Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	Level III COMP SCI Elective <input type="checkbox"/>	MECH ENG 4108 Aircraft Design <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>
Year 6				
S 1	MECH ENG 4106 Aerospace Propulsion <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Level III COMP SCI Elective <input type="checkbox"/>



Core Courses	Major Courses	Double Degree Courses
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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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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) - Defence Systems Major with Bachelor of Mathematical and Computer Sciences - Computer Science Major – Semester 2

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"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>
S 2	MECH ENG 3038 Computer Aided Engineering <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 for Engineers <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"/>	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	MECH ENG 2020 Materials & Manufacturing <input type="checkbox"/>	COMP SCI 2000 Computer Systems <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>	ENG 3305 Human Factors for Decision Making <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>
Year 5				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	MECH ENG 3026 Advanced Mechanics of Materials <input type="checkbox"/>	POLIS 1104 Introduction to Comparative Politics <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Level III COMP SCI Elective <input type="checkbox"/>	Level III COMP SCI Elective <input type="checkbox"/>
Year 6				
S 1	ENG 4020 Complex Systems Engineering <input type="checkbox"/>	ENG 4010 Defence Leadership <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Level III COMP SCI Elective <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 with
Bachelor of Mathematical and Computer Sciences - Computer Science Major – Semester 2

Year 1				
S 2	# MATHS 1011 Mathematics IA <input type="checkbox"/>	^ ENG 1001 Introduction to Engineering <input type="checkbox"/>	CHEM ENG 1009 Materials I <input type="checkbox"/>	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"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>
S 2	MECH ENG 3038 Computer Aided Engineering <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II <input type="checkbox"/>	COMP SCI 2000 Computer Systems <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures for Engineers <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"/>	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	MECH ENG 3026 Advanced Mechanics of Materials <input type="checkbox"/>	MECH ENG 2020 Materials & Manufacturing <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <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"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Level III COMP SCI Elective <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	MECH ENG 3101 Applied Aerodynamics <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Level III COMP SCI Elective <input type="checkbox"/>
Year 6				
S 1	MECH ENG 4118 Finite Element Analysis of Structure <input type="checkbox"/>	MECH ENG 4111 CFD for Engineering Applications <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Level III COMP SCI Elective <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"/>			

NOTES

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.

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

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Bachelor of Engineering (Honours) (Mechanical) - Mechatronics and Robotics Major with
Bachelor of Mathematical and Computer Sciences - Computer Science Major – Semester 2

Year 1				
S	# MATHS 1011 Mathematics IA	^ ENG 1001 Introduction to Engineering	CHEM ENG 1009 Materials I	MECH ENG 1007 Engineering Mechanics – Dynamics
2				
Year 2				
S	MATHS 1012 Mathematics IB	ENG 1002 Programming (Matlab and C)	CEME 1004 Engineering Mechanics-Statics	ELEC ENG 1101 Electronic Systems
1				
S	MATHS 2107 Statistics & Numerical Methods II	MECH ENG 2002 Stress Analysis & Design	MECH ENG 2019 Dynamics & Control I	MECH ENG 2101 Mechatronics IM
2				
Year 3				
S	MATHS 2106 Differential Equations for Engineers II	MECH ENG 2100 Design Practice	MECH ENG 2021 Thermo-Fluids I	COMP SCI 1102 Object Oriented Programming
1				
S	MECH ENG 3038 Computer Aided Engineering	MECH ENG 3028 Dynamics & Control II	COMP SCI 2000 Computer Systems	COMP SCI 2103 Algorithm Design & Data Structures for Engineers
2				
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	ENG 3004 Interdisciplinary Professional Practice	MECH ENG 3102 Heat Transfer & Thermodynamics	ELEC ENG 2105 Electronic Circuits M	COMP SCI 2201 Algorithm & Data Structure Analysis
1				
S	ENG 3005 Research Method & Project Management	COMP SCI 3006 Software Engineering & Project	MECH ENG 3032 Micro-Controller Programming	Mechanical Engineering Elective (see elective table)
2				
Year 5				
S	ENG 4001A Research Project Part A	MECH ENG 3103 Advanced Manufacturing Systems	MECH ENG 3106 Mechatronics II	Level III COMP SCI Elective
1				
S	ENG 4001B Research Project Part B	Mechanical Engineering Elective (see elective table)	Mechanical Engineering Elective (see elective table)	Level III COMP SCI Elective
2				
Year 6				
S	MECH ENG 4102 Advanced PID Control	MECH ENG 4124 Robotics M	Mechanical Engineering Elective (see elective table)	Level III COMP SCI Elective
1				

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"/>	

NOTES

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Bachelor of Engineering (Honours) (Mechanical) - Medical Technologies Major with
Bachelor of Mathematical and Computer Sciences - Computer Science Major – Semester 2

Year 1				
S	# MATHS 1011 Mathematics IA	^ ENG 1001 Introduction to Engineering	CHEM ENG 1009 Materials I	MECH ENG 1007 Engineering Mechanics – Dynamics
2				
Year 2				
S	MATHS 1012 Mathematics IB	ENG 1002 Programming (Matlab and C)	CEME 1004 Engineering Mechanics-Statics	ELEC ENG 1101 Electronic Systems
1				
S	MATHS 2107 Statistics & Numerical Methods II	MECH ENG 2002 Stress Analysis & Design	MECH ENG 2019 Dynamics & Control I	MECH ENG 2101 Mechatronics IM
2				
Year 3				
S	MATHS 2106 Differential Equations for Engineers II	MECH ENG 2100 Design Practice	MECH ENG 2021 Thermo-Fluids I	COMP SCI 1102 Object Oriented Programming
1				
S	MECH ENG 3038 Computer Aided Engineering	MECH ENG 3028 Dynamics & Control II	COMP SCI 2000 Computer Systems	COMP SCI 2103 Algorithm Design & Data Structures for Engineers
2				
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	ENG 3004 Interdisciplinary Professional Practice	MECH ENG 3102 Heat Transfer & Thermodynamics	ANAT SC 1102 Human Biology 1A	COMP SCI 2201 Algorithm & Data Structure Analysis
1				
S	ENG 3005 Research Method & Project Management	COMP SCI 3006 Software Engineering & Project	ANAT SC 2009 Musculoskeletal Anatomy	Mechanical Engineering Elective (see elective table)
2				
Year 5				
S	ENG 4001A Research Project Part A	ENG 3101 Introduction to Medical Technologies	Level III COMP SCI Elective	Level III COMP SCI Elective
1				
S	ENG 4001B Research Project Part B	ELEC ENG 4115 Biomedical Instrumentation	MECH ENG 4101 Biomechanical Engineering	Mechanical Engineering Elective (see elective table)
2				
Year 6				
S	PHYSIOL 2510 Physiology IIA	Mechanical Engineering Elective (see elective table)	Mechanical Engineering Elective (see elective table)	Level III COMP SCI Elective
1				

Core Courses

Major Courses

Double Degree Courses

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"/>	MECH ENG 4124 Robotics M <input type="checkbox"/>
S2	MECH ENG 3032 Micro-Controller Programming <input type="checkbox"/>	MECH ENG 4123 Advanced Digital Control <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.

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 with
Bachelor of Mathematical and Computer Sciences - Computer Science Major – Semester 2

Year 1				
S	# MATHS 1011 Mathematics IA	^ ENG 1001 Introduction to Engineering	CHEM ENG 1009 Materials I	MECH ENG 1007 Engineering Mechanics – Dynamics
2				
Year 2				
S	MATHS 1012 Mathematics IB	ENG 1002 Programming (Matlab and C)	CEME 1004 Engineering Mechanics-Statics	ELEC ENG 1101 Electronic Systems
1				
S	MATHS 2107 Statistics & Numerical Methods II	MECH ENG 2002 Stress Analysis & Design	MECH ENG 2019 Dynamics & Control I	MECH ENG 2101 Mechatronics IM
2				
Year 3				
S	MATHS 2106 Differential Equations for Engineers II	MECH ENG 2100 Design Practice	MECH ENG 2021 Thermo-Fluids I	COMP SCI 1102 Object Oriented Programming
1				
S	MECH ENG 3038 Computer Aided Engineering	MECH ENG 3028 Dynamics & Control II	COMP SCI 2000 Computer System	COMP SCI 2103 Algorithm Design & Data Structures for Engineers
2				
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	ENG 3004 Interdisciplinary Professional Practice	MECH ENG 3102 Heat Transfer & Thermodynamics	Mechanical Engineering Elective (see elective table)	COMP SCI 2201 Algorithm & Data Structure Analysis
1				
S	ENG 3005 Research Method & Project Management	COMP SCI 3006 Software Engineering & Project	ELEC ENG 4111 Distributed Generation Technologies	Level III COMP SCI Elective
2				
Year 5				
S	ENG 4001A Research Project Part A	CEME 3007 Integrated Environment Planning & Impact Assessment	ELEC ENG 3110 Electric Power Systems	Level III COMP SCI Elective
1				
S	ENG 4001B Research Project Part B	CHEM ENG 4048 Biofuels, Biomass and Wastes	Mechanical Engineering Elective (see elective table)	Level III COMP SCI Elective
2				
Year 6				
S	Mechanical Engineering Elective (see elective table)	Mechanical Engineering Elective (see elective table)	MECH ENG 4112 Combustion Technology & Emission Control	MECH ENG 4064 Renewable Power Technologies
1				

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"/>		

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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) - Smart Technology Major with
Bachelor of Mathematical and Computer Sciences - Computer Science Major – Semester 2

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"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>
S 2	MECH ENG 3038 Computer Aided Engineering <input type="checkbox"/>	MECH ENG 3028 Dynamics & Control II <input type="checkbox"/>	COMP SCI 2000 Computer System <input type="checkbox"/>	COMP SCI 2103 Algorithm Design & Data Structures for Engineers <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"/>	MECH ENG 3102 Heat Transfer & Thermodynamics <input type="checkbox"/>	Level II or III Computer Science Elective <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>	MECH ENG 3032 Micro-Controller Programming <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <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 COMP SCI 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"/>	Level II or III COMP SCI Elective <input type="checkbox"/>



Year 6				
S 1	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	Mechanical Engineering Elective (see elective table) <input type="checkbox"/>	COMP SCI 3012 Distributed Systems <input type="checkbox"/>	Level III COMP SCI Elective <input type="checkbox"/>
Core Courses	Major Courses	Double Degree Courses		

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 with
Bachelor of Mathematical and Computer Sciences - Computer Science Major – Semester 2

Year 1				
S	# MATHS 1011 Mathematics IA	^ ENG 1001 Introduction to Engineering	CHEM ENG 1009 Materials I	MECH ENG 1007 Engineering Mechanics – Dynamics
2				
Year 2				
S	MATHS 1012 Mathematics IB	ENG 1002 Programming (Matlab and C)	CEME 1004 Engineering Mechanics-Statics	ELEC ENG 1101 Electronic Systems
1				
S	MATHS 2107 Statistics & Numerical Methods II	MECH ENG 2002 Stress Analysis & Design	MECH ENG 2019 Dynamics & Control I	MECH ENG 2101 Mechatronics IM
2				
Year 3				
S	MATHS 2106 Differential Equations for Engineers II	MECH ENG 2100 Design Practice	MECH ENG 2021 Thermo-Fluids I	COMP SCI 1102 Object Oriented Programming
1				
S	MECH ENG 3038 Computer Aided Engineering	MECH ENG 3028 Dynamics & Control II	COMP SCI 2000 Computer Systems	COMP SCI 2103 Algorithm Design & Data Structures for Engineers
2				
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	ENG 3004 Interdisciplinary Professional Practice	MECH ENG 3102 Heat Transfer & Thermodynamics	MECH ENG 2102 Sports Engineering I	COMP SCI 2103 Algorithm Design & Data Structures for Engineers
1				
S	ENG 3005 Research Method & Project Management	MECH ENG 3107 Sports Engineering II	MECH ENG 4101 Biomechanical Engineering	COMP SCI 3006 Software Engineering & Project
2				
Year 5				
S	ENG 4001A Research Project Part A	MECH ENG 3103 Advanced Manufacturing Systems	Mechanical Engineering Elective (see elective table)	Level III COMP SCI Elective
1				
S	ENG 4001B Research Project Part B	MECH ENG 4140 Sports Engineering III	Mechanical Engineering Elective (see elective table)	Level III COMP SCI Elective
2				
Year 6				
S	MECH ENG 3101 Applied Aerodynamics	Mechanical Engineering Elective (see elective table)	Mechanical Engineering Elective (see elective table)	Level III COMP SCI Elective
1				

Core Courses

Major Courses

Double Degree Courses

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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