

Bachelor of Engineering (Mechanical) (Honours), Master of Engineering Management (BENMCHMENM) 2026 Study Plan

The following Study Planners are available within this document:

- [Semester 1 Commencing – Advanced Manufacturing and Digital Design Major \(Page 2\)](#)
- [Semester 2 Commencing – Advanced Manufacturing and Digital Design Major \(Page 3\)](#)
- [Semester 1 Commencing – Mechanical Engineering Major \(Page 4\)](#)
- [Semester 2 Commencing – Mechanical Engineering Major \(Page 5\)](#)
- [Semester 1 Commencing – Nuclear Engineering Major \(Page 6\)](#)
- [Semester 2 Commencing – Nuclear Engineering Major \(Page 7\)](#)

Please note:

- This document is provided as a guide only. Students are responsible for ensuring that they have completed their study according to the official [Course Rule](#).
- Topic information for all topics, including pre-requisites can be found on the [Topic Page](#)
- General enrolment assistance is available via [Ask Flinders](#)
- ** indicates that Pre-requisites apply

Bachelor of Engineering (Mechanical) (Honours), Master of Engineering Management (BENMCHMENM)
(Advanced Manufacturing and Digital Design Major)
Semester 1 Commencing

First Level	Semester 1	ENGR1721 Engineering Programming	ENGR1711 Engineering Design	ENGR1401 Professional Skills	MATH1121 Mathematics 1A
	Semester 2	ENGR1201 Electronics	PHYS1101 Physics 1A	ENGR1722 Engineering Materials and Systems	MATH1122 Mathematics 1B**
Second Level	Semester 1	ENGR2711 Engineering Mathematics**	ENGR2741 Mechanics and Structures**	ENGR2751 Fluid Mechanics**	Year 2 Major topic ENGR1215 Cyber-physical Systems, Robotics and Automation (NS1)
	NS2	ENGR2703 Mechanical Practice Certificate (0 units)			
	Semester 2	ENGR2771 Dynamics**	PHYS2712 Thermodynamics and Energy Systems**	Year 2 Major topic DSGN2702 Design for Sustainable Manufacture	Year 2 Major topic ENGR1210 Innovation and Industry 4.0
Third Level	Semester 1	ENGR3751 Solid Mechanics**	Year 3 Major topic ENGR2752 Mechanics of Machines**	Year 3 Major topic ENGR2781 Mechanical Design Project**	Year 3 Major topic ENGR3003 Advanced Manufacturing 1
	NS1	ENGR3750 Workplace Preparation (0 units)**			
	Semester 2	ENGR9705 Project Management (NS2)	ENGR3700 Engineering Practicum (13.5 units)** OR ENGR3710 International Engineering Practicum (13.5 units)**		
Fourth level	Semester 1	ENGR7811 Advanced Mechanical Design**	ENGR9004 Production Engineering GE	COMP8802 Fundamentals of Artificial Intelligence GE	DSGN8702 Design for Sustainable Manufacture GE <i>*requires topic replacement – discuss with Course coordinator</i>
	Semester 2	BUSN8007 Ethics, Sustainability and Governance	ENGR9742 Systems Engineering	Year 4 Major topic ENGR7003 Advanced Manufacturing 2**	Year 4 Major Topic** <i>Refer to Course Rule</i>
Fifth Level	Semester 1	ENGR9500A Honours Research Thesis (4.5/18 units) **	ENGR9500B Honours Research Thesis (4.5/18 units) **	ENGR9006 Cyber-Physical Systems, Robotics and Automation GE	Engineering Management Option Topic <i>Refer to Course Rule</i>
	Semester 2	ENGR9500C Honours Research Thesis (4.5/18 units) **	ENGR9500D Honours Research Thesis (4.5/18 units) **	BUSN8009 Creating Resilient Supply Chains and Procurement	Engineering Management Option Topic <i>Refer to Course Rule</i>

Bachelor of Engineering (Mechanical) (Honours), Master of Engineering Management (BENMCHMENM)
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Semester 2 Commencing

First Level	Semester 2	ENGR1201 Electronics	PHYS1101 Physics 1A	ENGR1722 Engineering Materials and Systems	MATH1121 Mathematics 1A
	Semester 1	ENGR1711 Engineering Design	ENGR1721 Engineering Programming	ENGR1401 Professional Skills	MATH1122 Mathematics 1B**
Second Level	Semester 2	ENGR2771 Dynamics**	PHYS2712 Thermodynamics and Energy Systems**	Year 2 Major topic DSGN2702 Design for Sustainable Manufacture	Year 2 Major topic ENGR1210 Innovation and Industry 4.0
	Semester 1	ENGR2711 Engineering Mathematics**	ENGR2741 Mechanics and Structures**	ENGR2751 Fluid Mechanics**	Year 2 Major topic ENGR1215 Cyber-physical Systems, Robotics and Automation (NS1)
	NS1	ENGR2703 Mechanical Practice Certificate (0 units)			
	NS1	ENGR3750 Workplace Preparation (0 units)			
Third Level	Semester 2	ENGR9705 Project Management (NS2)	ENGR3700 Engineering Practicum (13.5 units) OR ENGR3710 International Engineering Practicum (13.5 units)		
	Semester 1	ENGR3751 Solid Mechanics**	Year 3 Major topic ENGR2752 Mechanics of Machines**	Year 3 Major topic ENGR2781 Mechanical Design Project**	Year 3 Major topic ENGR3003 Advanced Manufacturing 1
Fourth level	Semester 2	BUSN8007 Ethics, Sustainability and Governance	ENGR9742 Systems Engineering	Year 4 Major topic ENGR7003 Advanced Manufacturing 2**	Year 4 Major Topic** <i>Refer to Course Rule</i>
	Semester 1	ENGR7811 Advanced Mechanical Design**	ENGR9004 Production Engineering GE	COMP8802 Fundamentals of Artificial Intelligence GE	DSGN8702 Design for Manufacture GE <i>*requires topic replacement – discuss with Course coordinator</i>
Fifth Level	Semester 1	ENGR9500A Honours Research Thesis (4.5/18 units) **	ENGR9500B Honours Research Thesis (4.5/18 units) **	BUSN8009 Creating Resilient Supply Chains and Procurement	Engineering Management Option Topic <i>Refer to Course Rule</i>
	Semester 2	ENGR9500C Honours Research Thesis (4.5/18 units) **	ENGR9500D Honours Research Thesis (4.5/18 units) **	ENGR9006 Cyber-Physical Systems, Robotics and Automation GE	Engineering Management Option Topic <i>Refer to Course Rule</i>

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Semester 1 Commencing**

First Level	Semester 1	ENGR1721 Engineering Programming	ENGR1711 Engineering Design	ENGR1401 Professional Skills	MATH1121 Mathematics 1A
	Semester 2	ENGR1201 Electronics	PHYS1101 Physics 1A	ENGR1722 Engineering Materials and Systems	MATH1122 Mathematics 1B**
Second Level	Semester 1	ENGR2711 Engineering Mathematics**	ENGR2741 Mechanics and Structures**	ENGR2751 Fluid Mechanics**	Year 2 Major topic ENGR2781 Mechanical Design Project**
	NS2	ENGR2703 Mechanical Practice Certificate (0 units)			
	Semester 2	ENGR2771 Dynamics**	PHYS2712 Thermodynamics and Energy Systems**	Year 2 Major topic ENGR2722 Signals and Systems**	Year 2 Major topic ENGR2812 Engineering Materials 2**
Third Level	Semester 1	ENGR3751 Solid Mechanics**	Year 3 Major topic ENGR2752 Mechanics of Machines**	Year 3 Major topic ENGR3711 Control Systems**	Year 3 Major topic ENGR3761 Applied Thermo-Fluid Dynamics**
	NS1	ENGR3750 Workplace Preparation (0 units)			
	Semester 2	ENGR9705 Project Management (NS2)	ENGR3700 Engineering Practicum (13.5 units) OR ENGR3710 International Engineering Practicum (13.5 units)		
Fourth level	Semester 1	ENGR7811 Advanced Mechanical Design**	ENGR9004 Production Engineering GE	COMP8802 Fundamentals of Artificial Intelligence GE	Year 4 Major topic ENGR3003 Advanced Manufacturing 1
	Semester 2	BUSN8007 Ethics, Sustainability and Governance	ENGR9742 Systems Engineering	DSGN8702 Design for Manufacture GE	Year 4 Major Topic** <i>Refer to Course Rule</i>
Fifth Level	Semester 1	ENGR9500A Honours Research Thesis (4.5/18 units) **	ENGR9500B Honours Research Thesis (4.5/18 units) **	ENGR9006 Cyber-Physical Systems, Robotics and Automation GE	Engineering Management Option Topic <i>Refer to Course Rule</i>
	Semester 2	ENGR9500C Honours Research Thesis (4.5/18 units) **	ENGR9500D Honours Research Thesis (4.5/18 units) **	BUSN8009 Creating Resilient Supply Chains and Procurement	Engineering Management Option Topic <i>Refer to Course Rule</i>

**Bachelor of Engineering (Mechanical) (Honours), Master of Engineering Management (BENGMCHMENM)
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Semester 2 Commencing**

First Level	Semester 2	ENGR1201 Electronics	PHYS1101 Physics 1A	ENGR1722 Engineering Materials and Systems	MATH1121 Mathematics 1A
	Semester 1	ENGR1711 Engineering Design	ENGR1721 Engineering Programming	ENGR1401 Professional Skills	MATH1122 Mathematics 1B**
Second Level	Semester 2	ENGR2771 Dynamics	PHYS2712 Thermodynamics and Energy Systems	Year 2 Major Topic	Year 2 Major Topic
	Semester 1	ENGR2711 Engineering Mathematics	ENGR2741 Mechanics and Structures	ENGR2751 Fluid Mechanics	Year 2 Major Topic
	NS1	ENGR2703 Mechanical Practice Certificate (0 units)			
	NS1	ENGR3750 Workplace Preparation (0 units)			
Third Level	Semester 2	ENGR9705 Project Management (NS2)	ENGR3700 Engineering Practicum (13.5 units) OR ENGR3710 International Engineering Practicum (13.5 units)		
	Semester 1	ENGR3751 Solid Mechanics	Year 3 Major Topic	Year 3 Major Topic	Year 3 Major Topic
Fourth level	Semester 2	BUSN8007 Ethics, Sustainability and Governance	ENGR9742 Systems Engineering	DSGN8702 Design for Manufacture GE	Year 4 Major Topic** <i>Refer to Course Rule</i>
	Semester 1	ENGR7811 Advanced Mechanical Design**	ENGR9004 Production Engineering GE	COMP8802 Fundamentals of Artificial Intelligence GE	Year 4 Major topic ENGR3003 Advanced Manufacturing 1
Fifth Level	Semester 1	ENGR9500A Honours Research Thesis (4.5/18 units) **	ENGR9500B Honours Research Thesis (4.5/18 units) **	BUSN8009 Creating Resilient Supply Chains and Procurement	Engineering Management Option Topic <i>Refer to Course Rule</i>
	Semester 2	ENGR9500C Honours Research Thesis (4.5/18 units) **	ENGR9500D Honours Research Thesis (4.5/18 units) **	ENGR9006 Cyber-Physical Systems, Robotics and Automation GE	Engineering Management Option Topic <i>Refer to Course Rule</i>

**Bachelor of Engineering (Mechanical) (Honours), Master of Engineering Management (BENGMCHMENM)
(Nuclear Engineering Major)
Semester 1 Commencing**

First Level	Semester 1	ENGR1721 Engineering Programming	ENGR1711 Engineering Design	ENGR1401 Professional Skills	MATH1121 Mathematics 1A
	Semester 2	ENGR1201 Electronics	PHYS1101 Physics 1A	ENGR1722 Engineering Materials and Systems	MATH1122 Mathematics 1B**
Second Level	NS1	Nuclear Major Option – January Intensive ENGR3025 Nuclear Fuel Cycle and Performance		ENGR3750 Workplace Preparation (0 units)	
	Semester 1	ENGR2711 Engineering Mathematics**	ENGR2741 Mechanics and Structures**	ENGR2751 Fluid Mechanics**	Nuclear Major Topic ENGR3003 Advanced Manufacturing
	NS2	Nuclear Major Core – July Intensive ENGR2025 Nuclear Reactor Engineering		ENGR2703 Mechanical Practice Certificate (0 units)	
	Semester 2	ENGR2771 Dynamics**	PHYS2712 Thermodynamics and Energy Systems**	ENGR9705 Project Management	Nuclear Major Option Topic
Third Level	NS1	Nuclear Major Core – January Intensive ENGR2026 Nuclear Radiation Damage in Materials			
	Semester 1	ENGR3700 Engineering Practicum (13.5 units) OR ENGR3710 International Engineering Practicum (13.5 units) OR University of Rhode Island Placement* (18 units – Revised study plan required)			
	NS2	Nuclear Major Core – July Intensive ENGR3026 Nuclear Reactor Design and Safety Analysis**			
	Semester 2	BUSN8007 Ethics, Sustainability and Governance	BUSN8009 Creating Resilient Supply Chains and Procurement	ENGR9742 Systems Engineering	Nuclear Major Option Topic
Fourth Level	NS1	Nuclear Major Core – January Intensive ENGR7001 Naval Nuclear Power and Propulsion**			
	Semester 1	ENGR9004 Production Engineering GE	COMP8802 Fundamentals of Artificial Intelligence GE	DSGN8702 Design for Manufacture GE	ENGR3751 Solid Mechanics**
	Semester 2	ENGR9500A Honours Research Thesis (4.5/18 units) **	ENGR9500B Honours Research Thesis (4.5/18 units) **	Engineering Management Option Topic <i>Refer to Course Rule</i>	Engineering Management Option Topic <i>Refer to Course Rule</i>
Fifth Level	Semester 1	ENGR9500C Honours Research Thesis (4.5/18 units) **	ENGR9500D Honours Research Thesis (4.5/18 units) **	ENGR9006 Cyber-Physical Systems, Robotics and Automation GE	ENGR7811** Advanced Mechanical Design**

**Bachelor of Engineering (Mechanical) (Honours), Master of Engineering Management (BENGMCHMENM)
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Semester 2 Commencing**

First Level	Semester 2	ENGR1201 Electronics	PHYS1101 Physics 1A	ENGR1722 Engineering Materials and Systems	MATH1121 Mathematics 1A
	Semester 1	ENGR1711 Engineering Design	ENGR1721 Engineering Programming	ENGR1401 Professional Skills	MATH1122 Mathematics 1B**
	NS2	Nuclear Major Core – July Intensive ENGR2025 Nuclear Reactor Engineering		ENGR2703 Mechanical Practice Certificate (0 units)	
Second Level	Semester 2	ENGR2771 Dynamics**	ENGR9705 Project Management	ENGR9742 Systems Engineering	Nuclear Option Topic
	NS1	Nuclear Major Option – January Intensive ENGR3025 Nuclear Fuel Cycle and Performance		ENGR3750 Workplace Preparation (0 units)	
	Semester 1	ENGR2711 Engineering Mathematics**	ENGR2741 Mechanics and Structures**	ENGR2751 Fluid Mechanics**	Nuclear Major Option Topic ENGR3003 Advanced Manufacturing
Third Level	Semester 2	PHYS2712 Thermodynamics and Energy Systems**	Nuclear Major Option Topic	BUSN8009 Creating Resilient Supply Chains and Procurement	
	NS1	Nuclear Major Core – January Intensive ENGR2026 Nuclear Radiation Damage in Materials**			
	Semester 1	ENGR3700 Engineering Practicum (13.5 units)** OR ENGR3710 International Engineering Practicum (13.5 units)** OR University of Rhode Island Placement* (18 units – Revised study plan required)			
Fourth Level	NS2	Nuclear Major Core – July Intensive ENGR3026 Nuclear Reactor Design and Safety Analysis**			
	Semester 2	BUSN8007 Ethics, Sustainability and Governance	Engineering Management Option Topic <i>Refer to Course Rule</i>	DSGN8702 Design for Manufacture GE	
	NS1	Nuclear Major Core – January Intensive ENGR7001 Naval Nuclear Power and Propulsion**			
	Semester 1	ENGR3751 Solid Mechanics**	ENGR9004 Production Engineering GE	COMP8802 Fundamentals of Artificial Intelligence GE	
Fifth Level	Semester 2	ENGR9500A Honours Research Thesis (4.5/18 units) **	ENGR9500B Honours Research Thesis (4.5/18 units) **	Engineering Management Option Topic <i>Refer to Course Rule</i>	
	Semester 1	ENGR9500C Honours Research Thesis (4.5/18 units) **	ENGR9500D Honours Research Thesis (4.5/18 units) **	ENGR9006 Cyber-Physical Systems, Robotics and Automation GE	ENGR7811** Advanced Mechanical Design**