Course progression map for 2021 commencing students

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E6001 Master of Advanced Engineering

Specialisation – Additive manufacturing

Entry level 2 program

| YEAR 1 | Semester 1 | ENG5001 Advanced engineering data analysis | MTE5887 Additive manufacturing of polymeric and functional materials | MEC5891 Design for additive manufacturing | Enhancement unit |
| YEAR 1 | Semester 2 | ENG5002 Engineering entrepreneurship Or ENG5006 Work integrated learning | MTE5886 Additive manufacturing of metallic materials | MEC5881 Engineering systems performance analysis | ENG5005 Research methods |

Enhancement units

- ACF5903 Accounting for business
- BTF5910 Corporate sustainability regulation
- CHE5882 Biomass and biorefineries
- CHE5883 Nanostructured membranes for separation and energy production
- ECES5886 Smart grids
- ECF5953 Economics
- ENG5100 Professional engineer in organisation and society
- MEC5862 Instrumentation, sensing and monitoring
- MGF5600 Managing innovation
- MGF5011 Commercialisation
- MGF5020 Business ethics in a global environment
- MKF5955 Marketing management - Theory and practice
- MTE5883 Environmental durability and protection of metals and engineering materials
- MTE5885 Biomaterials and biomechanics

Additive manufacturing technical electives

- ENG4700 Engineering technology for biomedical imaging and sensing
- MTE4590 Modelling of materials
- MTE4592 Advanced ceramics and applications
- MTE4593 Materials and sustainability
- MTE4594 Engineering alloy design, processing and selection
- MTE4596 Biomaterials 2
- MTE4597 Engineering with nanomaterials
- MTE4598 Electron microscopy
- MTE5882 Advanced polymeric materials

The unit listings are subject to updates.
Course progression map for 2021 commencing students

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E6001 Master of Advanced Engineering
Specialisation – Chemical engineering

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<td><strong>Semester 1</strong></td>
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<tr>
<td>ENG5001 Advanced engineering data analysis</td>
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<tr>
<td>CHE5881 Advanced reaction engineering</td>
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<tr>
<td>CHE5884 Process modelling and optimisation</td>
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<td><strong>YEAR 1</strong></td>
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<td><strong>Semester 2</strong></td>
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<td>ENG5002 Engineering entrepreneurship</td>
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<tr>
<td>CHE5882 Biomass and biorefineries</td>
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<tr>
<td>CHE5883 Nanostructured membranes for separation and energy production</td>
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<td>ENG5005 Research methods</td>
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</table>

<table>
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<tr>
<th>Enhancement units</th>
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</thead>
<tbody>
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<td>• ACF5903 Accounting for business</td>
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<td>• BTF5910 Corporate sustainability regulation</td>
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<tr>
<td>• ECE5886 Smart grids</td>
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<td>• ECF5953 Economics</td>
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<tr>
<td>• ENG5100 Professional engineer in organisation and society</td>
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<tr>
<td>• MEC5881 Engineering systems performance analysis</td>
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<tr>
<td>• MEC5882 Instrumentation, sensing and monitoring</td>
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<tr>
<td>• MGF5600 Managing innovation</td>
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<td>• MGF5011 Commercialisation</td>
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<td>• MGF5020 Business ethics in a global environment</td>
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<td>• MKF5955 Marketing management - Theory and practice</td>
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<tr>
<td>• MTE5883 Environmental durability and protection of metals and engineering materials</td>
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<tr>
<td>• MTE5885 Biomaterials and biomechanics</td>
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<td>• MTE5886 Additive manufacturing of metallic materials</td>
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<td>• MTE5887 Additive manufacturing of polymeric and functional materials</td>
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<table>
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<tr>
<th>Chemical engineering technical electives</th>
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<td>• CHE3161 Chemistry and chemical thermodynamics</td>
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<td>• CHE3162 Process control</td>
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<td>• CHE3163 Sustainable processing I</td>
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<td>• CHE3164 Reaction engineering</td>
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<td>• CHE3165 Separation processes</td>
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<td>• CHE3167 Transport phenomena and numerical methods</td>
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<td>• CHE3171 Bioprocess technology</td>
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<td>• CHE3172 Nanotechnology and materials 1</td>
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<td>• CHE4161 Engineer in society</td>
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<td>• CHE4162 Particle technology</td>
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<td>• CHE4171 Biochemical engineering</td>
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<tr>
<td>• CHE4172 Nanotechnology and materials 2</td>
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<tr>
<td>• CHE4173 Sustainable processing 2</td>
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<tr>
<td>• ENE4042 Environmental impact and risk assessment</td>
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<td>• CHE5889 Food engineering and processing</td>
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Course progression map for 2021 commencing students

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### E6001 Master of Advanced Engineering

Specialisation – Civil engineering (Infrastructure systems)

**Entry level 2 program**

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<thead>
<tr>
<th>YEAR 1</th>
<th>ENG5001 Advanced engineering data analysis</th>
<th>CIV5886 Infrastructure geomechanics</th>
<th>Enhancement unit</th>
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<td>Semester 1</td>
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<td>ENG5005 Research methods</td>
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<thead>
<tr>
<th>YEAR 1</th>
<th>CIV5885 Infrastructure dynamics</th>
<th>CIV5887 Infrastructure rehabilitation and monitoring</th>
<th>CIV5888 Advanced computational methods</th>
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<tbody>
<tr>
<td>Semester 2</td>
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</tr>
</tbody>
</table>

**Enhancement units**

- ACF5903 Accounting for business
- BTF5910 Corporate sustainability regulation
- CHE5882 Biomass and biorefineries
- CHE5883 Nanostructured membranes for separation and energy production
- CIV5301 Advanced traffic engineering
- CIV5302 Traffic engineering and management
- CIV5305 Travel demand modelling
- CIV5310 Infrastructure project and policy evaluation
- CIV5313 Asset management
- CIV5314 Planning urban mobility futures
- CIV5315 Applied transport economics
- CIV5316 Fundamentals of urban public transport
- CIV5322 Project risk management
- CIV5881 Ground water hydraulics
- CIV5882 Flood hydraulics and hydrology
- CIV5883 Surface water hydrology
- CIV5894 Water sensitive stormwater design
- CIV5899 Infrastructure information management
- ECE5886 Smart grids
- ECF5853 Economics
- ENG5100 Professional engineer in organisation and society
- MEC5881 Engineering systems performance analysis
- MEC5882 Instrumentation, sensing and monitoring
- MGF5600 Managing innovation
- MGF5011 Commercialisation
- MKF5955 Marketing management - Theory and practice
- MTE5883 Environmental durability and protection of metals and engineering materials
- MTE5885 Biomaterials and biomechanics
- MTE5886 Additive manufacturing of metallic materials
- MTE5887 Additive manufacturing of polymeric and functional materials

**Civil infrastructure systems technical electives**

- CIV4234 Advanced structural analysis
- CIV4235 Advanced structural design
- CIV4248 Ground hazards engineering
- CIV4249 Foundation engineering
- CIV4261 Integrated urban water management
- CIV4268 Water resources management
- CIV4283 Transport planning
- CIV4284 Traffic systems
- ENE4607 Environmental risk assessment
- ENG4700 Engineering technology for biomedical imaging and sensing

The unit listings are subject to updates.
Course progression map for 2021 commencing students

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E6001 Master of Advanced Engineering
Specialisation – Civil engineering (Transport)

Entry level 2 program

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<thead>
<tr>
<th>YEAR 1 Semester 1</th>
<th>YEAR 1 Semester 2</th>
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<tr>
<td>ENG5001 Advanced engineering data analysis</td>
<td>ENG5002 Engineering entrepreneurship Or ENG5008 Work integrated learning</td>
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<tr>
<td>CIV5302 Traffic engineering and management</td>
<td>CIV5301 Advanced traffic engineering</td>
</tr>
<tr>
<td>CIV5304 Intelligent transport</td>
<td>CIV5314 Planning urban mobility futures</td>
</tr>
<tr>
<td>Enhancement unit</td>
<td>ENG5005 Research methods</td>
</tr>
</tbody>
</table>

Enhancement units

- ACF5903 Accounting for business
- BTF5910 Corporate sustainability regulation
- CHE5882 Biomass and biofuineries
- CHE5883 Nanostructured membranes for separation and energy production
- CIV5305 Travel demand modelling
- CIV5310 Infrastructure project and policy evaluation
- CIV5313 Asset management
- CIV5315 Applied transport economics
- CIV5316 Fundamentals of urban public transport
- CIV5323 Project risk management
- CIV5881 Ground water hydraulics
- CIV5882 Flood hydraulics and hydrology
- CIV5883 Surface water hydrology
- CIV5884 Water sensitive stormwater design
- CIV5885 Infrastructure dynamics
- CIV5886 Infrastructure geomechanics
- CIV5887 Infrastructure rehabilitation and monitoring
- CIV5888 Advanced computational methods
- CIV5889 Infrastructure information management
- ECE5889 Smart grids
- ECF5963 Economics
- ENG5109 Professional engineer in organisation and society
- MEC5881 Engineering systems performance analysis
- MEC5882 Instrumentation, sensing and monitoring
- MGF5600 Managing innovation
- MGF5011 Commercialisation
- MGF5029 Business ethics in a global environment
- MKF5965 Marketing management - Theory and practice
- MTE5880 Environmental durability and protection of metals and engineering materials
- MTE5881 Biomaterials and biomechanics
- MTE5884 Additive manufacturing of metallic materials
- MTE5887 Additive manufacturing of polymeric and functional materials

Civil transport technical electives

- CIV4234 Advanced structural analysis
- CIV4235 Advanced structural design
- CIV4248 Ground hazards engineering
- CIV4249 Foundation engineering
- CIV4261 Integrated urban water management
- CIV4268 Water resources management
- CIV4283 Transport planning
- CIV4284 Traffic systems
- ENE4607 Environmental risk assessment
- ENG4700 Engineering technology for biomedical imaging and sensing

The unit listings are subject to updates.
Course progression map for 2021 commencing students

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E6001 Master of Advanced Engineering
Specialisation – Civil engineering (Water)

Entry level 2 program

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>Semester 1</th>
<th>ENGS01 Advanced engineering data analysis</th>
<th>CIVS811 Ground water hydraulics</th>
<th>CIVS84 Water sensitive stormwater design</th>
<th>Enhancement unit</th>
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<tr>
<td>YEAR 1</td>
<td>Semester 2</td>
<td>ENGS002 Engineering entrepreneurship Or ENGS08 Work integrated learning</td>
<td>CIVS83 Surface water hydrology</td>
<td>CIVS882 Flood hydraulics and hydrology</td>
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</table>

Enhancement units

- ACFS801 Accounting for business
- BTF5910 Corporate sustainability regulation
- CHES882 Biomass and biorefineries
- CHES883 Nanostructured membranes for separation and energy production
- CIVS301 Advanced traffic engineering
- CIVS302 Traffic engineering and management
- CIVS305 Travel demand modelling
- CIVS310 Infrastructure project and policy evaluation
- CIVS313 Asset management
- CIVS314 Planning urban mobility futures
- CIVS315 Applied transport economics
- CIVS316 Fundamentals of urban public transport
- CIVS323 Project risk management
- CIVS385 Infrastructure dynamics
- CIVS386 Infrastructure geomechanics
- CIVS387 Infrastructure rehabilitation and monitoring
- CIVS388 Advanced computational methods
- CIVS389 Infrastructure information management
- ECE5886 Smart grids
- ECF5963 Economics
- ENGS101 Professional engineer in organisation and society
- MEC5881 Engineering systems performance analysis
- MEC5882 Instrumentation, sensing and monitoring
- MGF5000 Managing innovation
- MGF5011 Commercialisation
- MGF5020 Business ethics in a global environment
- MKF5955 Marketing management - Theory and practice
- MTE5883 Environmental durability and protection of metals and engineering materials
- MTE5885 Biomaterials and biomechanics
- MTE5886 Additive manufacturing of metallic materials
- MTE5887 Additive manufacturing of polymeric and functional materials

Civil water technical electives

- CIVS234 Advanced structural analysis
- CIVS235 Advanced structural design
- CIVS248 Ground hazards engineering
- CIVS249 Foundation engineering
- CIVS261 Integrated urban water management
- CIVS288 Water resources management
- CIVS283 Transport planning
- CIVS284 Traffic systems
- ENGE407 Environmental risk assessment
- ENG5700 Engineering technology for biomedical imaging and sensing

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E6001 Master of Advanced Engineering

Specialisation – Electrical engineering

Entry level 2 program

<table>
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<tr>
<th>YEAR 1 Semester 1</th>
<th>ENGS001 Advanced engineering data analysis</th>
<th>ECE5881 Real-time system design</th>
<th>ECE5883 Advanced signal processing</th>
<th>Enhancement unit</th>
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<tbody>
<tr>
<td>YEAR 1 Semester 2</td>
<td>ENGS002 Engineering entrepreneurship</td>
<td>ECE5882 Advanced electronics design</td>
<td>ECE5884 Wireless communications</td>
<td>ENGS005 Research methods</td>
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<td>Or ENGS008 Work integrated learning</td>
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</table>

Enhancement units

- ACF5903 Accounting for business
- BTF5910 Corporate sustainability regulation
- CHE5882 Biomass and bio refineries
- CHE5883 Nanostructured membranes for separation and energy production
- ECE5886 Smart grids
- ECF5953 Economics
- ENGS001 Professional engineer in organisation and society
- MECS81 Engineering systems performance analysis
- MECS82 Instrumentation, sensing and monitoring
- MGF5600 Managing innovation
- MGF5011 Commercialisation
- MGF5020 Business ethics in a global environment
- MKFS55 Marketing management - Theory and practice
- MTE5883 Environmental durability and protection of metals and engineering materials
- MTE5885 Biomaterials and biomechanics
- MTE5886 Additive manufacturing of metallic materials
- MTE5887 Additive manufacturing of polymeric and functional materials
- ECE4012 Applied digital signal processing
- ECE4024 Wireless communications
- ECE4032 Advanced control
- ECE4042 Communications theory
- ECE4043 Optical communications
- ECE4044 Telecommunications protocols
- ECE4045 Network performance
- ECE4053 Power system analysis
- ECE4054 Electrical energy - power converters and motor control
- ECE4055 Power electronic converters
- ECE4058 Electrical energy - high voltage engineering
- ECE4063 Large scale digital design
- ECE4074 Advanced computer architecture
- ECE4076 Computer vision
- ECE4077 Advanced computing techniques
- ECE4078 Intelligent robotics
- ECE4081 Medical instrumentation
- ECE4084 Biomechanics of human musculoskeletal systems
- ECE4086 Medical imaging technology
- ECE4087 Medical technology innovation
- ECE4122 Advanced electromagnetics
- ECE4146 Multimedia technologies
- ECE4179 Neural networks and deep learning
- ECE5156 Advanced power electronics
- ECE5886 Smart grids
- ENGS005 Engineering technology for biomedical imaging and sensing

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E6001 Master of Advanced Engineering

Specialisation – Materials engineering

Entry level 2 program

<table>
<thead>
<tr>
<th>YEAR 1 Semester 1</th>
<th>ENG5001 Advanced engineering data analysis</th>
<th>MTE5882 Advanced polymeric materials</th>
<th>MTE5884 Materials for energy technologies</th>
<th>Enhancement unit</th>
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</thead>
<tbody>
<tr>
<td>YEAR 1 Semester 2</td>
<td>ENG5002 Engineering entrepreneurship Or:</td>
<td>MTE5881 Applied crystallography in advanced materials characterisation</td>
<td>MTE5883 Environmental durability and protection of metals and engineering materials</td>
<td>ENG5005 Research methods</td>
</tr>
</tbody>
</table>

Enhancement units

- ACF5903 Accounting for business
- BTF5910 Corporate sustainability regulation
- CHE5882 Biomass and biorefineries
- CHE5883 Nanostructured membranes for separation and energy production
- ECE5886 Smart grids
- ECF5953 Economics
- ENG5100 Professional engineer in organisation and society
- MEC5881 Engineering systems performance analysis
- MEC5882 Instrumentation, sensing and monitoring
- MEC5891 Design for additive manufacturing
- MGF5600 Managing innovation
- MGF5011 Commercialisation
- MGF5020 Business ethics in a global environment
- MKF5955 Marketing management - Theory and practice
- MTE5885 Biomaterials and biomechanics
- MTE5886 Additive manufacturing of metallic materials
- MTE5897 Additive manufacturing of polymeric and functional materials

Materials engineering technical electives

- ENG4700 Engineering technology for biomedical imaging and sensing
- MTE4590 Modelling of materials
- MTE4592 Advanced ceramics and applications
- MTE4593 Materials and sustainability
- MTE4594 Engineering alloy design, processing and selection
- MTE4596 Biomaterials 2
- MTE4597 Engineering with nanomaterials
- MTE4598 Electron microscopy

The unit listings are subject to updates
Course progression map for 2021 commencing students

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E6001 Master of Advanced Engineering

Specialisation – Mechanical engineering

Entry level 2 program

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<th>YEAR 1 Semester 1</th>
<th>ENGS001 Advanced engineering data analysis</th>
<th>MEC5982 Instrumentation, sensing and monitoring</th>
<th>MEC5883 Mechanical systems design</th>
<th>Enhancement unit</th>
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| YEAR 1 Semester 2 | ENGS002 Engineering entrepreneurship Or ENGS008 Work integrated learning | MEC5881 Engineering systems performance analysis | MEC5884 Sustainable engineering systems | ENG5005 Research methods |

Enhancement units

- ACF5903 Accounting for business
- BTF5910 Corporate sustainability regulation
- CHE5862 Biomass and biorefineries
- CHE5883 Nanostructured membranes for separation and energy production
- ECE5886 Smart grids
- ECF5993 Economics
- ENG5100 Professional engineer in organisation and society
- MEC5891 Design for additive manufacturing
- MGF5600 Managing innovation
- MGF5011 Commercialisation
- MGF5020 Business ethics in a global environment
- MKF5995 Marketing management - Theory and practice
- MTE5883 Environmental durability and protection of metals and engineering materials
- MTE5886 Biomaterials and biomechanics
- MTE5886 Additive manufacturing of metallic materials
- MTE5887 Additive manufacturing of polymeric and functional materials

Mechanical engineering technical electives

- ENGS009 Engineering technology for biomedical imaging and sensing
- MEC4416 Momentum, energy and mass transport in engineering systems
- MEC4418 Control systems
- MEC4425 Micro/nano solid and fluid mechanics
- MEC4426 Computer-aided design
- MEC4428 Advanced dynamics
- MEC4444 Industrial noise and control
- MEC4446 Composite structures
- MEC4447 Computers in fluids and energy
- MEC4456 Robotics
- MEC4459 Wind engineering
- MEC5897 Lean manufacturing
- TRC4200 Engineering cyber-physical systems

The unit listings are subject to updates
# Course progression map for 2021 commencing students

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## E6001 Master of Advanced Engineering

### Specialisation – Renewable and sustainable energy engineering

#### Entry level 2 program

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<tr>
<th>YEAR 1 Semester 1</th>
<th>ENG5001 Advanced engineering data analysis</th>
<th>MEC5886 Energy efficiency and sustainability engineering</th>
<th>MTE5884 Advanced photovoltaics and energy storage</th>
<th>Enhancement unit</th>
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<tbody>
<tr>
<td>YEAR 1 Semester 2</td>
<td>ENG5002 Engineering entrepreneurship Or ENG5008 Work integrated learning</td>
<td>ECE5886 Smart grids</td>
<td>MEC5888 Renewable energy systems</td>
<td>ENG5005 Research methods</td>
</tr>
</tbody>
</table>

### Enhancement units

- ACF5903 Accounting for business
- BTF5810 Corporate sustainability regulation
- CHE5882 Biomass and biorefineries
- CHE5883 Nanostructured membranes for separation and energy production
- ECF5953 Economics
- ENG5010 Professional engineer in organisation and society
- MEC5881 Engineering systems performance analysis
- MEC5882 Instrumentation, sensing and monitoring
- MGF5600 Managing innovation
- MGF5011 Commercialisation
- MGF5200 Business ethics in a global environment
- MKF5955 Marketing management - Theory and practice
- MTE5883 Environmental durability and protection of metals and engineering materials
- MTE5885 Biomaterials and biomechanics
- MTE5886 Additive manufacturing of metallic materials
- MTE5887 Additive manufacturing of polymeric and functional materials

### Renewable and sustainable energy engineering technical electives

- CHE4161 Engineer in society
- CHE4171 Biochemical engineering
- CHE4172 Nanotechnology and materials 2
- CHE4173 Sustainable processing 2
- CIV4234 Advanced structural analysis
- CIV4235 Advanced structural design
- CIV4248 Ground hazards engineering
- CIV4249 Foundation engineering
- CIV4283 Transport planning
- CIV4284 Traffic systems
- ECE4053 Power system analysis
- ECE4054 Electrical energy - power converters and motor control
- ECE4055 Power electronic converters
- ECE4058 Electrical energy - high voltage engineering
- ENE4607 Environmental risk assessment
- MEC4418 Control systems
- MEC4436 Computer-aided design
- MEC4444 Industrial noise and control
- MEC4446 Composite structures
- MEC4447 Computers in fluids and energy
- MEC4459 Wind engineering
- MEC4902 Sustainable engineering and design with nanomaterials
- MTE4572 Polymer and composite processing and engineering
- MTE4573 Processing and engineering of metals and ceramics
- MTE4590 Modelling of materials
- MTE4592 Advanced ceramics and applications
- MTE4593 Materials and sustainability
- MTE4594 Engineering alloy design, processing and selection
- MTE4597 Engineering with nanomaterials
- CHE5881 Advanced reaction engineering
- MEC5883 Mechanical systems design
- MEC5884 Sustainable energy systems
- MTE5882 Advanced polymeric materials