Course progression map for 2021 commencing students

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E6001 Master of Advanced Engineering
Specialisation – Additive manufacturing

Entry level 2 program

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>Semester 1</th>
<th>ENG5001 Advanced engineering data analysis</th>
<th>MTE5887 Additive manufacturing of polymeric and functional materials</th>
<th>MEC5891 Design for additive manufacturing</th>
<th>Enhancement unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG5001</td>
<td>Advanced engineering data analysis</td>
<td>MTE5887 Additive manufacturing of polymeric and functional materials</td>
<td>MEC5891 Design for additive manufacturing</td>
<td>Enhancement unit</td>
<td></td>
</tr>
<tr>
<td>YEAR 1</td>
<td>Semester 2</td>
<td>ENG5002 Engineering entrepreneurship</td>
<td>MTE5886 Additive manufacturing of metallic materials</td>
<td>MEC5881 Engineering systems performance analysis</td>
<td>ENG5005 Research methods</td>
</tr>
</tbody>
</table>

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
- ECF5953 Economics
- ENG5100 Professional engineer in organisation and society
- MEC5882 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

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E6001 Master of Advanced Engineering

Specialisation – Chemical engineering

Entry level 2 program

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

Enhancement units

- ACF5903 Accounting for business
- BTF5910 Corporate sustainability regulation
- ECE5886 Smart grids
- ECF5953 Economics
- ENG5100 Professional engineer in organisation and society
- MEC5881 Engineering systems performance analysis
- MEC5882 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
- MTE5886 Additive manufacturing of metallic materials
- MTE5887 Additive manufacturing of polymeric and functional materials

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## E6001 Master of Advanced Engineering

**Specialisation – Civil engineering (Infrastructure systems)**

### Entry level 2 program

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>ENG5001 Advanced engineering data analysis</th>
<th>CIV5885 Infrastructure dynamics</th>
<th>CIV5886 Infrastructure geomechanics</th>
<th>Enhancement unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester 1</td>
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<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>ENGS002 Engineering entrepreneurship Or ENGS008 Work integrated learning</th>
<th>CIV5887 Infrastructure rehabilitation and monitoring</th>
<th>CIV5888 Advanced computational methods</th>
<th>ENG5005 Research methods</th>
</tr>
</thead>
<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
- CIV5300 Advanced traffic engineering
- CIV5301 Traffic engineering and management
- CIV5310 Infrastructure project and policy evaluation
- CIV5311 Asset management
- CIV5312 Planning urban mobility futures
- 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
- CIV5888 Infrastructure information management
- ECE5886 Smart grids
- ECF5953 Economics
- ENG5100 Professional engineer in organisation and society
- EEC5881 Engineering systems performance analysis
- MEC5882 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
- MTE5886 Additive manufacturing of metallic materials
- MTE5887 Additive manufacturing of polymeric and functional materials

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Monash University, CRICOS Provider Number 00008C
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E6001 Master of Advanced Engineering
Specialisation – Civil engineering (Transport)

Entry level 2 program

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

<table>
<thead>
<tr>
<th>Enhancement units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACF5903 Accounting for business</td>
</tr>
<tr>
<td>BTF5910 Corporate sustainability regulation</td>
</tr>
<tr>
<td>CHE5882 Biomass and biorefineries</td>
</tr>
<tr>
<td>CHE5883 Nanostructured membranes for separation and energy production</td>
</tr>
<tr>
<td>CIV5305 Travel demand modelling</td>
</tr>
<tr>
<td>CIV5310 Infrastructure project and policy evaluation</td>
</tr>
<tr>
<td>CIV5319 Asset management</td>
</tr>
<tr>
<td>CIV5315 Applied transport economics</td>
</tr>
<tr>
<td>CIV5316 Fundamentals of urban public transport</td>
</tr>
<tr>
<td>CIV5323 Project risk management</td>
</tr>
<tr>
<td>CIV5881 Ground water hydraulics</td>
</tr>
<tr>
<td>CIV5882 Flood hydraulics and hydrology</td>
</tr>
<tr>
<td>CIV5883 Surface water hydrology</td>
</tr>
<tr>
<td>CIV5884 Water sensitive stormwater design</td>
</tr>
<tr>
<td>CIV5885 Infrastructure dynamics</td>
</tr>
<tr>
<td>CIV5886 Infrastructure geomechanics</td>
</tr>
<tr>
<td>CIV5887 Infrastructure rehabilitation and monitoring</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Enhancement units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV5888 Advanced computational methods</td>
</tr>
<tr>
<td>CIV5889 Infrastructure information management</td>
</tr>
<tr>
<td>CIV5899 Infrastructures and data management</td>
</tr>
<tr>
<td>ECE5896 Smart grids</td>
</tr>
<tr>
<td>ECF5963 Economics</td>
</tr>
<tr>
<td>ENG5100 Professional engineer in organisation and society</td>
</tr>
<tr>
<td>MEC5881 Engineering systems performance analysis</td>
</tr>
<tr>
<td>MEC5882 Instrumentation, sensing and monitoring</td>
</tr>
<tr>
<td>MGF5800 Managing innovation</td>
</tr>
<tr>
<td>MGF5011 Commercialisation</td>
</tr>
<tr>
<td>MGF5020 Business ethics in a global environment</td>
</tr>
<tr>
<td>MKF5955 Marketing management - Theory and practice</td>
</tr>
<tr>
<td>MTE5883 Environmental durability and protection of metals and engineering materials</td>
</tr>
<tr>
<td>MTE5885 Biomaterials and biomechanics</td>
</tr>
<tr>
<td>MTE5886 Additive manufacturing of metallic materials</td>
</tr>
<tr>
<td>MTE5887 Additive manufacturing of polymeric and functional materials</td>
</tr>
</tbody>
</table>

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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>ENGS001 Advanced engineering data analysis</th>
<th>CIVS081 Ground water hydraulics</th>
<th>CIVS084 Water sensitive stormwater design</th>
<th>Enhancement unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester 1</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>YEAR 1</td>
<td>ENG5002 Engineering entrepreneurship No offering in 2022 Or ENG5008 Work integrated learning</td>
<td>CIVS083 Surface water hydrology</td>
<td>CIVS082 Flood hydraulics and hydrology</td>
<td>ENG5005 Research methods</td>
</tr>
<tr>
<td>Semester 2</td>
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</tr>
</tbody>
</table>

Enhancement units

- ACFS003 Accounting for business
- BTF5910 Corporate sustainability regulation
- CHE5882 Biomass and biorefineries
- CHE5883 Nanostructured membranes for separation and energy production
- CIVS301 Advanced traffic engineering
- CIVS302 Traffic engineering and management
- CIVS306 Travel demand modelling
- CIVS310 Infrastructure project and policy evaluation
- CIVS312 Asset management
- CIVS314 Planning urban mobility futures
- CIVS315 Applied transport economics
- CIVS316 Fundamentals of urban public transport
- CIVS323 Project risk management
- CIVS885 Infrastructure dynamics
- CIVS886 Infrastructure geomechanics
- CIVS887 Infrastructure rehabilitation and monitoring
- CIVS888 Advanced computational methods
- CIVS899 Infrastructure information management
- ECE5886 Smart grids
- ECF5883 Economics
- ENO5010 Professional engineer in organisation and society
- MEC5881 Engineering systems performance analysis
- MEC5882 Instrumentation, sensing and monitoring
- MGF5600 Managing innovation
- MGF5011 Commercialisation
- MGF5020 Business ethics in a global environment
- MKF5905 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

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E6001 Master of Advanced Engineering

Specialisation – Electrical engineering

Entry level 2 program

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>Semester 1</th>
<th>YEAR 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ENG5001 Advanced engineering data analysis</td>
<td>ECE5881 Real-time system design</td>
<td>ECE5883 Advanced signal processing</td>
</tr>
<tr>
<td></td>
<td>ECE5882 Advanced electronics design</td>
<td>ECE5884 Wireless communications</td>
<td>ENG5005 Research methods</td>
</tr>
<tr>
<td></td>
<td>ENG5008 Work integrated learning</td>
<td>ENG5002 Engineering entrepreneurship</td>
<td>No offering in 2022</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
- 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
- MTE5886 Additive manufacturing of metallic materials
- MTE5887 Additive manufacturing of polymeric and functional materials

The unit listings are subject to updates.
### E6001 Master of Advanced Engineering
#### Specialisation – Materials engineering

<table>
<thead>
<tr>
<th>Entry level 2 program</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>YEAR 1</strong></td>
</tr>
<tr>
<td>Semester 1</td>
</tr>
<tr>
<td><strong>YEAR 1</strong></td>
</tr>
<tr>
<td>Semester 2</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
- MTE5887 Additive manufacturing of polymeric and functional materials

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E6001 Master of Advanced Engineering

Specialisation – Mechanical engineering

Entry level 2 program

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>ENG5001 Advanced engineering data analysis</th>
<th>MEC5882 Instrumentation, sensing and monitoring</th>
<th>MEC5883 Mechanical systems design</th>
<th>Enhancement unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester 1</td>
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<tr>
<td>YEAR 1</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Semester 2</td>
<td>ENG5002 Engineering entrepreneurship Or ENG5008 Work integrated learning</td>
<td>MEC5881 Engineering systems performance analysis</td>
<td>MEC5884 Sustainable engineering systems</td>
<td>ENG5005 Research methods</td>
</tr>
</tbody>
</table>

Enhancement units

- ACF5903 Accounting for business
- BTF5910 Corporate sustainability regulation
- CHE5862 Biomass and biorefineries
- CHE5883 Nanostructured membranes for separation and energy production
- ECE5866 Smart grids
- ECF5853 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
- 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

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E6001 Master of Advanced Engineering
Specialisation – Renewable and sustainable energy engineering

Entry level 2 program

<table>
<thead>
<tr>
<th>YEAR 1 Semester 1</th>
<th>ENG5001 Advanced engineering data analysis</th>
<th>MEC5885 Energy efficiency and sustainability engineering</th>
<th>MTE5884 Advanced photovoltaics and energy storage</th>
<th>Enhancement unit</th>
</tr>
</thead>
<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
- BTF5910 Corporate sustainability regulation
- CHE5882 Biomass and biorefineries
- CHE5883 Nanostructured membranes for separation and energy production
- ECF5953 Economics
- ENG5100 Professional engineer in organisation and society
- MEC5881 Engineering systems performance analysis
- MEC5882 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
- MTE5886 Additive manufacturing of metallic materials
- MTE5887 Additive manufacturing of polymeric and functional materials