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 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>YEAR 1 Semester 2</td>
<td>ENG5002 Engineering entrepreneurship No offering in 2022 Or ENG5008 Work integrated learning</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
- CHE5882 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

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

Entry level 2 program

<table>
<thead>
<tr>
<th>YEAR 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>Semester 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>YEAR 1</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>
<tr>
<td>Semester 2</td>
<td>Or: ENG5008 Work integrated learning</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Enhancement units

- ACF5903 Accounting for business
- BTF5910 Corporate sustainability regulation
- ECE5886 Smart grids
- ECF5963 Economics
- ENG5100 Professional engineer in organisation and society
- ECE5886 Smart grids
- 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 Semester 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>Year 1 Semester 2</td>
<td>ENG5002 Engineering entrepreneurship No offering in 2022 Or ENG5008 Work integrated learning</td>
<td>CIV5887 Infrastructure rehabilitation and monitoring</td>
<td>CIV5888 Advanced computational methods</td>
<td>EN5005 Research methods</td>
</tr>
</tbody>
</table>

Enhancement units
- ACF5903 Accounting for business
- BTFS910 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
- CIV5323 Project risk management
- CIV5881 Ground water hydraulics
- CIV5882 Flood hydraulics and hydrology
- CIV5883 Surface water hydraulics
- CIV5884 Water sensitive stormwater design
- CIV5899 Infrastructure information management
- ECE5886 Smart grids
- ECF5963 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
- MKF5055 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 (Transport)

Entry level 2 program

<table>
<thead>
<tr>
<th>YEAR 1 Semester 1</th>
<th>YEAR 1 Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG5001 Advanced engineering data analysis</td>
<td>ENGF002 Engineering entrepreneurship</td>
</tr>
<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>ENGF005 Research methods</td>
</tr>
</tbody>
</table>

Or

| CIV5008 Work integrated learning |

Enhancement units

- ACF5903 Accounting for business
- BTF5910 Corporate sustainability regulation
- CHE5882 Biomass and biorefineries
- CHE5883 Nanostructured membranes for separation and energy production
- CIV5306 Travel demand modelling
- CIV5310 Infrastructure project and policy evaluation
- CIV5312 Asset management
- 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
- CIV5884 Water sensitive stormwater design
- CIV5885 Infrastructure dynamics
- CIV5886 Infrastructure geomechanics
- CIV5887 Infrastructure rehabilitation and monitoring
- CIV5888 Advanced computational methods
- CIV5899 Infrastructure information management
- 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 (Water)

Entry level 2 program

<table>
<thead>
<tr>
<th>YEAR 1 Semester 1</th>
<th>ENG5001 Advanced engineering data analysis</th>
<th>CIV5881 Ground water hydraulics</th>
<th>CIV584 Water sensitive stormwater design</th>
<th>Enhancement unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>YEAR 1 Semester 2</td>
<td>ENG5002 Engineering entrepreneurship</td>
<td>CIV5883 Surface water hydrology</td>
<td>CIV5882 Flood hydraulics and hydrology</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
- CIV581 Advanced traffic engineering
- CIV5802 Traffic engineering and management
- CIV5805 Travel demand modelling
- CIV5810 Infrastructure project and policy evaluation
- CIV5811 Asset management
- CIV5814 Planning urban mobility futures
- CIV5815 Applied transport economics
- CIV5816 Fundamentals of urban public transport
- CIV5823 Project risk management
- CIV5886 Infrastructure dynamics
- CIV5888 Infrastructure geomechanics
- CIV5887 Infrastructure rehabilitation and monitoring
- CIV5888 Advanced computational methods
- CIV5899 Infrastructure information management
- ECE5886 Smart grids
- ECF5983 Economics
- ENG5100 Professional engineer in organisation and society
- MEC5881 Engineering systems performance analysis
- MEC5882 Instrumentation, sensing and monitoring
- MGF5800 Managing innovation
- MGF5011 Commercialisation
- MGF5020 Business ethics in a global environment
- MKF5965 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 Semester 1</th>
<th>ENG5001 Advanced engineering data analysis</th>
<th>ECE5881 Real-time system design</th>
<th>ECE5883 Advanced signal processing</th>
<th>Enhancement unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>YEAR 1 Semester 2</td>
<td>ENG5002 Engineering entrepreneurship No offering in 2022 Or ENG5008 Work integrated learning</td>
<td>ECE5882 Advanced electronics design</td>
<td>ECE5884 Wireless communications</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
- ECF5963 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 – Materials engineering

Entry level 2 program

| YEAR 1 | ENG5001 Advanced engineering data analysis | MTE5882 Advanced polymeric materials | MTE5884 Materials for energy technologies | Enhancement unit |
| YEAR 1 Semester 1 | | | |
| YEAR 1 Semester 2 | ENG5002 Engineering entrepreneurship | MTE5881 Applied crystallography in advanced materials characterisation | MTE5883 Environmental durability and protection of metals and engineering materials | ENG5005 Research methods |

The unit listings are subject to updates

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
- ECF5963 Economics
- ENGS1005 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 Seminar 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>YEAR 1 Seminar 2</td>
<td>ENG5002 Engineering entrepreneurship No offering in 2022 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
- ECE5886 Smart grids
- ECF5963 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>ENG5002 Engineering entrepreneurship</td>
<td>ECE5886 Smart grids</td>
<td>MEC5888 Renewable energy systems</td>
<td>ENG5005 Research methods</td>
<td></td>
</tr>
<tr>
<td>Or ENG5008 Work integrated learning</td>
<td></td>
<td></td>
<td></td>
<td></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