

Program Plan

Newstep – Pathways for programs in Engineering, IT or Built Environment

 Commencing in 2021

 Studying at Callaghan & Ourimbah

See the last page for NUPrep Bridging & Refresher Courses



If you are interested in a program in *Engineering, IT or the Built Environment*, the recommended courses listed below will help to prepare you for your chosen program. It is important to note that apart from the core courses, these are *recommendations* only and you may enrol in *any* available directed course. The core courses must be completed.

	Semester 1				Semester 2		
Bachelor of Computer Science	<u>EPHUMA122</u> Academic Literacies 1	<u>EPMATH124</u> Advanced Mathematics 1 (Callaghan) OR <u>EPMATH153</u> Extension Mathematics 1 (Ourimbah- Online)	<u>EPSCIE120</u> Studies in Science	<u>EPINFO150</u> Information Technology	<u>EPHUMA123</u> Academic Literacies 2	<u>EPMATH125</u> Advanced Mathematics 2 (Callaghan) OR <u>EPMATH253</u> Extension Mathematics 2 (Ourimbah- Online)	<u>EPCHEM137</u> Foundation Concepts for Chemistry AND <u>EPBIOL259</u> Introduction to the Life Sciences (These 2 x 10 unit courses are approved to be taken in place of a 20 unit course) OR <u>EPPHYS152</u> Physics 1 AND <u>EPPHYS252</u> Physics 2 (These 2 x 10 unit courses are approved to be taken in place of a 20 unit course) OR <u>EPBIOL340 (20 units)</u> Environmental Science

Program Plan Key:  = Core  Directed

Semester 1

Semester 2

Bachelor of Information Technology

<u>EPHUMA122</u> Academic Literacies 1	<u>EPINFO150</u> Information Technology	<u>EPMATH126</u> Fundamental Mathematics	<u>DIRECTED</u> Choose 1 x 10 unit course of your choice
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<u>EPHUMA123</u> Academic Literacies 2	<u>EPMATH127</u> Applied Mathematics	<u>DIRECTED</u> Choose 1 x 20 unit course OR an approved pair of 10 unit courses of your choice
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Bachelor of Information Technology/
Bachelor of Business

<u>EPHUMA122</u> Academic Literacies 1	<u>EPINFO150</u> Information Technology	<u>EPMATH126</u> Fundamental Mathematics	<u>DIRECTED</u> Choose 1 x 10 unit course of your choice
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<u>EPHUMA123</u> Academic Literacies 2	<u>EPMATH127</u> Applied Mathematics	<u>EPMANC320 (20 units)</u> Business Organisation and Management
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Bachelor of Design (Architecture)

<u>EPHUMA122</u> Academic Literacies 1	<u>EPARTS190</u> Design Drawing	<u>DIRECTED</u> Choose 1 x 10 unit course of your choice	<u>DIRECTED</u> Choose 1 x 10 unit course of your choice
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<u>EPHUMA123</u> Academic Literacies 2	<u>EPARTS191</u> Design in Society	<u>DIRECTED</u> Choose 1 x 20 unit course OR an approved pair of 10 unit courses of your choice
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Bachelor of Construction Management (Building) (Honours)

<u>EPHUMA122</u> Academic Literacies 1	<u>EPMATH126</u> Fundamental Mathematics OR <u>EPMATH124</u> Advanced Mathematics 1 (Callaghan) OR <u>EPMATH153</u> Extension Mathematics 1 (Ourimbah- Online)	<u>EPHUMA155</u> Applied Legal Studies	<u>EPARTS190</u> Design Drawing
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<u>EPHUMA123</u> Academic Literacies 2	<u>EPMATH127</u> Applied Mathematics OR <u>EPMATH125</u> Advanced Mathematics 2 (Callaghan) OR <u>EPMATH253</u> Extension Mathematics 2 (Ourimbah- Online)	<u>EPMANC320 (20 Units)</u> Business Organisation and Management
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Program Plan Key:



= Core



Directed

Semester 1

Semester 2

Bachelor of
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<u>EPHUMA122</u> Academic Literacies 1	<u>EPMATH124</u> Advanced Mathematics 1 (Callaghan) OR <u>EPMATH153</u> Extension Mathematics 1 (Ourimbah-Online)	<u>EPSCIE120</u> Studies in Science	<u>EPINFO150</u> Information Technology
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<u>EPHUMA123</u> Academic Literacies 2	<u>EPMATH125</u> Advanced Mathematics 2 (Callaghan) OR <u>EPMATH253</u> Extension Mathematics 2 (Ourimbah-Online)	<u>EPPHYS152</u> Physics 1 AND <u>EPPHYS252</u> Physics 2 (These 2 x 10 unit courses are approved to be taken in place of a 20 unit course)
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* Aerospace Systems Engineering (Honours), Computer Systems Engineering (Honours), Mechanical Engineering (Honours), Mechatronics Engineering (Honours), Surveying (Honours)

Bachelor of
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<u>EPHUMA122</u> Academic Literacies 1	<u>EPMATH124</u> Advanced Mathematics 1 (Callaghan) OR <u>EPMATH153</u> Extension Mathematics 1 (Ourimbah- Online)	<u>EPSCIE120</u> Studies in Science	<u>EPINFO150</u> Information Technology
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<u>EPHUMA123</u> Academic Literacies 2	<u>EPMATH125</u> Advanced Mathematics 2 (Callaghan) OR <u>EPMATH253</u> Extension Mathematics 2 (Ourimbah- Online)	<u>EPICHEM137</u> Foundation Concepts for Chemistry AND <u>EPBIOL259</u> Introduction to the Life Sciences (These 2 x 10 unit courses are approved to be taken in place of a 20 unit course) OR <u>EPPHYS152</u> Physics 1 AND <u>EPPHYS252</u> Physics 2 (These 2 x 10 unit courses are approved to be taken in place of a 20 unit course)
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* Civil Engineering (Honours), Electrical and Electronic Engineering (Honours), Engineering (Mining Transfer Program), Medical Engineering (Honours), Software Engineering (Honours)

Program Plan Key:  = Core  Directed

Semester 1

Semester 2

Bachelor of
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<u>EPHUMA122</u> Academic Literacies 1	<u>EPMATH124</u> Advanced Mathematics 1 (Callaghan) OR <u>EPMATH153</u> Extension Mathematics 1 (Ourimbah- Online)	<u>EPSCIE120</u> Studies in Science	<u>DIRECTED</u> Choose 1 x 10 unit course of your choice
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<u>EPHUMA123</u> Academic Literacies 2	<u>EPMATH125</u> Advanced Mathematics 2 (Callaghan) OR <u>EPMATH253</u> Extension Mathematics 2 (Ourimbah- Online)	<u>EPCHEM137</u> Foundation Concepts for Chemistry AND <u>EPBIOL259</u> Introduction to the Life Sciences (These 2 x 10 unit courses are approved to be taken in place of a 20 unit course) OR <u>EPPHYS152</u> Physics 1 AND <u>EPPHYS252</u> Physics 2 (These 2 x 10 unit courses are approved to be taken in place of a 20 unit course)
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* Chemical Engineering (Honours), Environmental Engineering (Honours), Renewable Energy Engineering (Honours)

Diploma in
Engineering

<u>EPHUMA122</u> Academic Literacies 1	<u>EPMATH126</u> Fundamental Mathematics OR <u>EPMATH124</u> Advanced Mathematics 1 (Callaghan) OR <u>EPMATH153</u> Extension Mathematics 1 (Ourimbah- Online)	<u>EPSCIE120</u> Studies in Science	<u>DIRECTED</u> Choose 1 x 10 unit course of your choice
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<u>EPHUMA123</u> Academic Literacies 2	<u>EPMATH127</u> Applied Mathematics OR <u>EPMATH125</u> Advanced Mathematics 2 (Callaghan) OR <u>EPMATH253</u> Extension Mathematics 2 (Ourimbah- Online)	<u>EPCHEM137</u> Foundation Concepts for Chemistry AND <u>EPBIOL259</u> Introduction to the Life Sciences (These 2 x 10 unit courses are approved to be taken in place of a 20 unit course) OR <u>EPPHYS152</u> Physics 1 AND <u>EPPHYS252</u> Physics 2 (These 2 x 10 unit courses are approved to be taken in place of a 20 unit course)
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Program Plan Key:  = Core  Directed

To successfully complete the Newstep program students must pass 80 units (a maximum of 40 units in each semester) including:

- ✓ Core Courses – 20 units
- ✓ Directed Courses - 60 units (including one 20 unit course unless otherwise specified)
- ✓ Please refer to the Newstep Handbook for specific information in relation to the program structure

<http://www.newcastle.edu.au/degrees/newstep>

Need a refresher or a bit of extra help in some areas? Why not try a FREE [NUPrep Bridging and Refresher course](#), they normally run for 15 hours across one week on campus or some are available online and run for 3 weeks.

EPPREP760: Academic Survival Skills

EPPREP780: Foundation Mathematics

EPPREP790: Foundation Chemistry

EPPREP800: Writing for University

EPPREP900: Foundation Physics

EPPREP950: Surviving Statistics for Tertiary Studies

PREP8400: Essential Computing

PREP8500: Advanced Computing