

Program Plan

Newstep – Pathways for programs in Science

 Commencing in 2021



 Studying at Callaghan & Ourimbah

If you are interested in an undergraduate program in *Science*, the recommended courses listed below will help to prepare you for your chosen degree 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.

See the last page for NUPrep Bridging & Refresher Courses



	Semester 1				Semester 2		
Bachelor of Biotechnology	<u>EPHUMA122</u> Academic Literacies 1	<u>EPMATH126</u> Fundamental Mathematics	<u>EPSCIE120</u> Studies in Science	<u>EPINFO150</u> Information Technology	<u>EPHUMA123</u> Academic Literacies 2	<u>EPMATH127</u> Applied Mathematics	<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)
Bachelor of Coastal and Marine Science	<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>EPINFO150</u> Information Technology	<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>EPBIOL340 (20 units)</u> Environmental Studies OR <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)

Program Plan Key:  = Core  = Directed

Semester 1

Bachelor of Development Studies

<u>EPHUMA122</u> Academic Literacies 1	<u>EPHUMA137</u> Australian Culture and Society	<u>DIRECTED</u> Choose 1 x 10 unit course of your choice	<u>DIRECTED</u> Choose 1 x 10 unit course of your choice
---	--	---	---

Bachelor of Environmental Science & Management

<u>EPHUMA122</u> Academic Literacies 1	<u>EPMATH126</u> Fundamental Mathematics	<u>EPINFO150</u> Information Technology	<u>EPSCIE120</u> Studies in Science
---	---	--	--

Bachelor of Exercise and Sport Science



<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>EPSCIE130</u> Studies in Health Science	<u>EPINFO150</u> Information Technology
---	--	---	--

Semester 2

<u>EPHUMA123</u> Academic Literacies 2	<u>DIRECTED</u> Choose 1 x 10 unit course of your choice	<u>EPHUMA310 (20 units)</u> Social Enquiry
---	---	---

<u>EPHUMA123</u> Academic Literacies 2	<u>EPMATH127</u> Applied Mathematics	<u>EPBIOL340 (20 units)</u> Environmental Science
---	---	--

<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)
---	--	---

Program Plan Key:  = Core  = Directed

Semester 1

Bachelor of Food Science and Human Nutrition

<u>EPHUMA122</u> Academic Literacies 1	<u>EPSCIE130</u> Studies in Health Science	<u>EPMATH126</u> Fundamental Mathematics	<u>DIRECTED</u> Choose 1 x 10 unit course of your choice
--	--	--	--



Semester 2

<u>EPHUMA123</u> Academic Literacies 2	<u>EPMATH127</u> Applied Mathematics	<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)
--	--	---

Bachelor of Mathematics
OR
Bachelor of Mathematics (Advanced)

<u>EPHUMA122</u> Academic Literacies 1	<u>EPMATH124</u> Advanced Mathematics 1 (Callaghan) OR <u>EPMATH153</u> Extension Mathematics 1 (Ourimbah Online)	<u>EPINFO150</u> Information Technology	<u>DIRECTED</u> Choose 1 x 10 unit course of your choice
--	--	---	--

<u>EPHUMA123</u> Academic Literacies 2	<u>EPMATH125</u> Advanced Mathematics 2 (Callaghan) OR <u>EPMATH253</u> Extension Mathematics 2 (Ourimbah Online)	<u>DIRECTED</u> Choose 1 x 20 unit course of your choice
--	--	--

Program Plan Key:  = Core  = Directed



Semester 1

<p><u>EPHUMA122</u> Academic Literacies 1</p>	<p><u>EPMATH124</u> Advanced Mathematics 1 (Callaghan) OR <u>EPMATH153</u> Extension Mathematics 1 (Ourimbah Online)</p>	<p><u>EPINFO150</u> Information Technology</p>	<p><u>EPSCIE120</u> Studies in Science</p>
--	---	---	---

Bachelor of Mathematics / Bachelor of Science

Semester 2

<p><u>EPHUMA123</u> Academic Literacies 2</p>	<p><u>EPMATH125</u> Advanced Mathematics 2 (Callaghan) OR <u>EPMATH253</u> Extension Mathematics 2 (Ourimbah Online)</p>	<p><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</p>
--	---	---

Program Plan Key:  = Core  = Directed

Semester 1

Bachelor of Psychological Science

<u>EPHUMA122</u> Academic Literacies 1	<u>EPSCIE130</u> Studies in Health Science	<u>EPMATH126</u> Fundamental Mathematics	<u>DIRECTED</u> Choose 1 x 10 unit course of your choice
--	--	--	--

Bachelor of Psychological Science (Advanced)

<u>EPHUMA122</u> Academic Literacies 1	<u>EPSCIE130</u> Studies in Health Science	<u>EPMATH124</u> Advanced Mathematics 1 (Callaghan) OR <u>EPMATH153</u> Extension Mathematics 1 (Ourimbah Online)	<u>DIRECTED</u> Choose 1 x 10 unit course of your choice
--	--	--	--

Bachelor of Science (Advanced) or Bachelor of Science With a major in *

<u>EPHUMA122</u> Academic Literacies 1	<u>EPSCIE120</u> Studies in Science	<u>EPMATH124</u> Advanced Mathematics 1 (Callaghan) OR <u>EPMATH153</u> Extension Mathematics 1 (Ourimbah Online)	<u>EPINFO150</u> Information Technology
--	---	--	---



* Photonics, Maths or Physics

Semester 2

<u>EPHUMA123</u> Academic Literacies 2	<u>EPMATH127</u> Applied Mathematics	<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)
--	--	---

<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)
--	--	---

<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)
--	--	---

Program Plan Key:  = Core  = Directed

Semester 1



<p><u>EPHUMA122</u> Academic Literacies 1</p>	<p><u>EPMATH126</u> Fundamental Mathematics</p> <p style="text-align: center;">OR</p> <p><u>EPMATH124</u> Advanced Mathematics 1 (Callaghan)</p> <p style="text-align: center;">OR</p> <p><u>EPMATH153</u> Extension Mathematics 1 (Ourimbah Online)</p>	<p><u>EPSCIE120</u> Studies in Science</p>	<p><u>EPINFO150</u> Information Technology</p>
--	---	---	---

Bachelor of Climate Science and Adaption
OR
Bachelor of Science, all majors except*

Semester 2

<p><u>EPHUMA123</u> Academic Literacies 2</p>	<p><u>EPMATH127</u> Applied Mathematics</p> <p style="text-align: center;">OR</p> <p><u>EPMATH125</u> Advanced Mathematics 2 (Callaghan)</p> <p style="text-align: center;">OR</p> <p><u>EPMATH253</u> Extension Mathematics 2 (Ourimbah Online)</p>	<p><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)</p> <p style="text-align: center;">OR</p> <p><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)</p> <p style="text-align: center;">OR</p> <p><u>EPBIOL340 (20 units)</u> Environmental Science</p>
--	---	---

* Photonics, Maths or Physics

Program Plan Key:  = Core  = Directed

Semester 1



<p><u>EPHUMA122</u> Academic Literacies 1</p>	<p><u>EPMATH124</u> Advanced Mathematics 1 (Callaghan) OR <u>EPMATH153</u> Extension Mathematics 1 (Ourimbah Online)</p>	<p><u>EPSCIE120</u> Studies in Science</p>	<p><u>EPINFO150</u> Information Technology</p>
--	---	---	---

Semester 2

<p><u>EPHUMA123</u> Academic Literacies 2</p>	<p><u>EPMATH125</u> Advanced Mathematics 2 (Callaghan) OR <u>EPMATH253</u> Extension Mathematics 2 (Ourimbah Online)</p>	<p><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</p>
--	---	---

Bachelor of Science (Advanced), all majors except*

* Photonics, Maths or Physics

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