

Bachelor of Biotechnology

TRANSITION ARRANGEMENTS - INFORMATION FOR STUDENTS WHO COMMENCED IN THE PROGRAM PRIOR TO 2021

Changes have been made to the Bachelor of Biotechnology program from 2021 onwards. Information regarding the changes to the overall structure of the program can be found in the following pages.

Bachelor of Biotechnology Pre-2021 Structure			Bachelor of Biotechnology Structure 2021		
Core Courses – 130 units			Core courses – 200 units		
BIOL1001	Molecules, Cells and Organisms	10 units	BIOL1001	Molecules, Cells and Organisms	10 units
BIOL1002	Organisms to Ecosystems	10 units	BIOL1002	Organisms to Ecosystems	10 units
BIOL1003	Professional Skills for Biological Sciences 1	10 units	BIOL1003	Professional Skills for Biological Sciences 1	10 units
BTEC1000	Introduction to the Biotechnology Sector	10 units	BTEC1000	Introduction to the Biotechnology Sector	10 units
			#PHYS1200	Introductory Physics for the Life Sciences	10 units
STAT1070	Statistics for the Sciences	10 units	STAT1070	Statistics for the Sciences	10 units
BIOL2001	Molecular Laboratory Skills for Biological Sciences	10 units	BIOL2001	Molecular Laboratory Skills for Biological Sciences	10 units
BIOL2002	Laboratory Skills in Biological Systems	10 units	BIOL2002	Laboratory Skills in Biological Systems	10 units
BIOL2010	Biochemistry	10 units	BIOL2010	Biochemistry	10 units
BIOL2050	Molecular Genetics	10 units	BIOL2050	Molecular Genetics	10 units
BIOL2090	Microbial Biology	10 units	BIOL2090	Microbial Biology	10 units
BTEC2230	Biomolecules	10 units	BTEC2230	Biomolecules	10 units
BIOL3001	Advanced Laboratory Skills in Biological Sciences	10 units	BIOL3001	Advanced Laboratory Skills in Biological Sciences	10 units
			#BIOL3020	**Animal Physiology, Reproduction and Development	10 units
BIOL3090	Molecular Biology	10 units	BIOL3090	Molecular Biology	10 units
			#BIOL3100	Microbiology	10 units
			#BTEC3200	Cellular Biotechnology	10 units
			#BTEC3251	Biotechnology Placement	30 units
			Electives – 10 units		
			Complete 10 units of electives.		
Mathematics Directed course – choose 10 units			Mathematics Directed Course – choose 10 units		
MATH1001	Preparatory Studies in Mathematics	10 units	MATH1001	Preparatory Studies in Mathematics	10 units
MATH1002	Foundational Studies in Mathematics	10 units	MATH1002	Foundational Studies in Mathematics	10 units
MATH1110	Mathematics for Engineering, Science and Technology 1	10 units	MATH1110	Mathematics for Engineering, Science and Technology 1	10 units
*MATH1210	Mathematical Discovery 1	10 units			
Chemistry Directed courses – choose either [CHEM1010 and CHEM1020] or [CHEM1110 and CHEM1120]			Chemistry Directed courses – choose either [CHEM1010 and CHEM1020] or [CHEM1110 and CHEM1120]		
CHEM1010	Introductory Chemistry I	10 units	CHEM1010	Introductory Chemistry I	10 units
CHEM1020	Introductory Chemistry II	10 units	CHEM1020	Introductory Chemistry II	10 units
CHEM1110	Chemistry for the Life Sciences I	10 units	CHEM1110	Chemistry for the Life Sciences I	10 units
CHEM1120	Chemistry for the Life Sciences II	10 units	CHEM1120	Chemistry for the Life Sciences II	10 units

Continued on next page

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2000 Level Directed course – choose 10 units		
*BIOL2020	Animal Physiology and Development	10 units
BIOL2220	Plant Cell Development**	10 units
ENVS2004	Ecology	10 units
SCIE2019	Astrobiology: Life Beyond our Planet	10 units
Physics Directed courses – choose 10 units		
*PHYS1150	Everyday Physics	10 units
PHYS1200	Introductory Physics for the Life Sciences	10 units
Placement/Non Placement Option – 60 units		
Placement Option		
BTEC3200	Cellular Biotechnology	10 units
BTEC3251	Biotechnology Placement	30 units
Electives		20 units
Non Placement Option		
^Electives	At least 20 units of electives must be at 3000 level	40 units
^Non Placement Option Directed courses – choose 20 units		
BIOL3020	**Animal Physiology, Reproduction and Development	10 units
BIOL3100	Microbiology	10 units
*BIOL3310	Plant Cell and Molecular Biology	10 units
*BIOL3330	Plant Development and Physiology	10 units
ENVS3003	Conservation Biology	10 units
ENVS3004	Ecotoxicology	10 units
TOTAL		240 units
TOTAL		240 units
* Course no longer offered, if you have already completed it then it will still count towards your program		
# Existing directed course changed to a core course for students who commence in 2021 onwards		
^ Students completing the Non-Placement Option will need to complete 40 units of electives, including at least 20 units at 3000 level, plus 20 units of Non Placement Option Directed courses.		

** Course Title Changes

Course Code	Pre-2021 Title	Title 2021 Onwards
BIOL2220	Plant Cell Development	Plant Adaptation to Climate Change
BIOL3020	Reproductive Physiology and Development	Animal Physiology, Reproduction and Development

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Frequently Asked Questions

Does this change what I need to enrol in?

The courses you need to enrol in may have changed if you have not yet completed BIOL3310 or your 10 unit physics directed course, however you will not be required to complete more than the 240 units required for your program. You must complete a minimum of 60 units at 3000 level for your program. **If you are completing the Non Placement Option, the number of electives and directed courses you need to complete has changed, please refer to page 2.** Please email your Academic Program Advisor at programadvice@newcastle.edu.au if you have questions about your enrolment.

Do I need to complete extra courses?

No, the total units required for your program are unchanged.

Can I choose to follow the updated program?

No, you need to follow the pre-2021 program structure on pages 1 and 2. You should not refer to the Program Handbook for which courses you need to complete as this will be updated to the 2021 program structure.

Will this delay my graduation?

No. As the changes do not increase the total number of courses you need to complete, these changes will not delay your graduation.

Can I still choose the Non-Placement Option?

Yes, you can still choose to complete the Non-Placement Option. Only students who commence in 2021 and onwards will be required to complete the placement courses (BTEC3200 and BTEC3251) as core courses.

Do I need to complete BIOL3020 and BIOL3100?

BIOL3020 and BIOL3100 are only core courses for students who commence the program from 2021.

How do I find out what semester a course is available?

You should refer to the Course Handbook: <https://www.newcastle.edu.au/course>

I have completed MATH1210, will it still count as my 10 unit mathematics directed course?

Yes, MATH1210 will still count as your 10 unit mathematics directed course. You do not need to complete MATH1001, MATH1002, or MATH1110.

I have completed BIOL2020, will it still count as my 10 unit 2000 level directed course?

Yes, BIOL2020 will still count as your 10 unit 2000 level directed course. You do not need to complete BIOL2220 or ENVS2004.

Do I need to complete PHYS1200?

If you have already completed PHYS1150 then you do not need to complete PHYS1200. If you have **not yet** completed PHYS1150 or PHYS1200 then you will need to complete PHYS1200.

I have completed PHYS1150, will it still count as my 10 unit physics directed course?

Yes, PHYS1150 will still count as your 10 unit physics directed course. You do not need to complete PHYS1200.

I have completed BIOL3310, will it still count as a core course?

BIOL3310 is no longer a core course, if you have completed the course it will still count towards your program. If you are completing the Placement Option BIOL3310 will count as an elective. If you are completing the Non Placement Option BIOL3310 will count as one of your 3000 level directed courses.