

Bachelor of Science [40165] – Physics major

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

Changes have been made to the Bachelor of Science majors from 2021 onwards. Information regarding the changes to the Physics major can be found in the following pages. Frequently Asked Questions can be found on page 2.

Physics Major Pre-2021			Physics Major 2021 Onwards		
Compulsory courses – 90 units			Compulsory courses – 110 units		
			#MATH1110	Mathematics for Engineering, Science and Technology 1	10 units
			#MATH1120	Mathematics for Engineering, Science and Technology 2	10 units
PHYS1210	Advanced Physics I	10 units	PHYS1210	Advanced Physics I	10 units
PHYS1220	Advanced Physics II	10 units	PHYS1220	Advanced Physics II	10 units
MATH2310	Calculus of Science and Engineering	10 units	MATH2310	Calculus of Science and Engineering	10 units
PHYS2111	Classical Physics 1	10 units	PHYS2111	Classical Physics 1	10 units
PHYS2112	Classical Physics 2	10 units	PHYS2112	Classical Physics 2	10 units
PHYS2211	Modern Physics 1	10 units	PHYS2211	Modern Physics 1	10 units
PHYS3111	Biophysics	10 units	PHYS3111	Biophysics	10 units
PHYS3112	Photonics	10 units	PHYS3112	Photonics	10 units
PHYS3211	Quantum Information Science	10 units	PHYS3211	Quantum Information Science	10 units
Directed Course List A – Complete 10 units					
#MATH1110	Mathematics for Engineering, Science and Technology 1	10 units			
^MATH1210	Mathematical Discovery 1	10 units			
Directed Course List B – Complete 10 units					
#MATH1120	Mathematics for Engineering, Science and Technology 2	10 units			
^MATH1220	Mathematical Discovery 2	10 units			
Directed Course List C – Complete 10 units			Directed courses – Complete 10 units		
			+MATH2242	Complex Analysis	10 units
+MATH3242	Complex Analysis	10 units			
MATH3820	Numerical Methods	10 units	MATH3820	Numerical Methods	10 units
Key					
# Directed course to become Compulsory for students who commence in 2021 onwards.					
^ Course no longer offered, if you have already completed this course it still counts towards your major.					
+ MATH3242 has been replaced by MATH2242. If you complete MATH2242 it will count as a 3000 level course in your program.					

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Frequently Asked Questions

Does this change what I need to enrol in?

You need to continue to follow the pre-2021 major structure.

I have not yet completed my 10 unit Directed Course List A course, what do I enrol in?

You will need to complete MATH1110.

I have not yet completed my 10 unit Directed Course List B course, what do I enrol in?

You will need to complete MATH1120.

I have not yet completed my 10 unit Directed Course List C course, what do I enrol in?

You will need to complete either MATH2242 or MATH3820.

Can I still complete my major?

Yes, you will still be able to complete your major.

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.

I have completed a course that is no longer offered, will this count towards my degree?

Yes, any courses you have completed that are no longer being offered will still count towards your major.

If you have any questions, please contact your Academic Program Advisor at

programadvice@newcastle.edu.au.