

(For all students in the Program)

## Undergraduate Minor Program in Astrophysics and Cosmology

Any undergraduate students with an overall CGA of 1.85 or above may enroll in the Astrophysics and Cosmology Minor Program. The program is designed for students with background in physics (e.g. level 3 or above in HKDSE 1/2x or 1x Physics) and/or calculus (e.g. MATH 1014), but also open to other students for enrollment, given that they may be required to take additional course(s) (e.g. PHYS 1001) to acquire relevant foundation. Students must declare their intention to enroll in the Minor Program no earlier than the first regular term of their second year of study but no later than the last day of the add/drop period in the first regular term of their final year of study. Students who wish to withdraw from the Minor Program should apply before the last day of the add/drop period in the first regular term of their final year of study.

### Minor Requirements

To graduate with a minor in Astrophysics and Cosmology, students must have enrolled in the Minor Program and complete a minimum total of 21 credits and all of its requirements, as well as the requirements of the major program of study; and have attained an average grade point of at least 1.85 in courses taken within the minor program.

For credit transfer, students can transfer a maximum total of 6 credits to the Minor Program.

Out of the total credits required by the minor program, at least 9 credits should be single-counted within the minor and are not used to fulfill any other requirements for graduation except the 120-credit degree requirement.

Students may use no more than 6 credits earned from courses offered in pure online delivery mode to satisfy the graduation requirements of a degree program. This 6-credit limit does not apply to credits obtained through the credit transfer procedures of the University.

### Required Course(s)

			Credit(s) attained
PHYS		Note: PHYS 1002 <u>OR</u> PHYS 1006 (Subject to approval by program office, students completed both PHYS 4055 and PHYS 4071 may be exempted from this requirement.)	3
	PHYS 1002	Introduction to Astrophysics and Astronomy	3
	PHYS 1006	Astronomy for Beginners	3
PHYS		Note: PHYS 1111 <u>OR</u> PHYS 1112 <u>OR</u> PHYS 1312	3
	PHYS 1111	General Physics I	3
	PHYS 1112	General Physics I with Calculus	3
	PHYS 1312	Honors General Physics I	3
PHYS		Note: PHYS 1114 <u>OR</u> PHYS 1314	3
	PHYS 1114	General Physics II	3
	PHYS 1314	Honors General Physics II	3
PHYS	2022	Modern Physics	3
PHYS/MATH		Note: (PHYS 3036 <u>OR</u> PHYS 3037) <u>OR</u> (PHYS 2124 <u>OR</u> MATH 2351 <u>OR</u> MATH 2352)	3
	PHYS 2124	Mathematical Methods in Physics I	3
	PHYS 3036	Quantum Mechanics I	3
	PHYS 3037	Honors Quantum Mechanics I	4

*School of Science - Undergraduate Minor Program in Astrophysics and Cosmology*

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MATH	2351	Introduction to Differential Equations	3
MATH	2352	Differential Equations	4
PHYS	3071	Introduction to Stellar Astrophysics	3
PHYS		Note: PHYS 4055 <u>OR</u> PHYS 4071	3
PHYS	4055	Particle Physics and the Universe	3
PHYS	4071	Big Bang Cosmology and Inflation	3