



UWA Plus Micro-credentials

Critical Information Summary

Title and brief description	ASTRM402 Astrophysical Concepts. This micro-credential will appeal to students wishing to expand their knowledge in the fundamentals of astronomy and the Universe. It will provide a comprehensive introduction to astronomy research and provide the foundations for further University study in both astronomy and physics.
Certified learning	(1) explain the formation and movement of solar system objects, and how this leads to observables from Earth; (2) describe how we detect and study exoplanets, and how we might detect life on them; (3) explain the structure of stars, the stellar lifecycle and stellar deaths including: planetary nebulae, supernovae, neutron stars and black holes; (4) explain the structure of galaxies, how they formed and how they change with time; (5) explain key topics in our understanding of the Universe like relativity, dark matter, dark energy, the Big Bang; and (6) describe observational techniques, data types and analyses used in astronomy research, and demonstrate a basic understanding of how to implement them.
How learner participated	Online only
Effort required (indicative)	55 hours over 10 weeks, including a combination of on-line recorded lectures, drop-in question sessions, assessments and assessment preparation.
Main assessment task	Testing recall of facts, Application of multiple skills to complex problems
Indicative equivalent level	Undergraduate
Industry recognition	NA
Quality assurance	The quality of UWA Plus micro-credentials is assured through The University of Western Australia's standards and academic integrity processes.
Successful learner earns PD Points for conversion to:	2
. Admission to an award course	No
. Credit towards an award course	Yes
. If yes, how much credit?	Credit is less than one unit
