



## UWA Plus Micro-credentials

### *Critical Information Summary*

Title and brief description	PHYSM402 Einsteinian Science for Secondary School Teachers. This micro-credential will appeal to Secondary School Teachers interested in changing the paradigm of school science teaching through the introduction of modern Einsteinian concepts of space and time, gravity and quanta at an early age. These concepts are rarely taught to school students despite their central importance to modern science and technology.
Certified learning	(1) grasp and explain the basic concepts of the modern theory of gravity at secondary the school level; (2) use simple model and analogies to describe key topics in modern physics at the secondary school level; (3) introduce the quantum nature of matter and radiation at the the secondary school level; (4) explain the modern concepts of space, time, gravity and radiation at the appropriate level; and (5) explain how historical theories were supplanted by the modern understanding of space, time, matter and radiation..
How learner participated	Online only
Effort required (indicative)	75 hours, including a combination of workshops, online lectures, self-directed study, and assessment preparation.
Main assessment task	Portfolio and reflective evidence for validation of proficiency
Indicative equivalent level	Postgraduate
Industry recognition	This micro-credential has been developed following discussions and collaborations through the Einstein-First Project, key stakeholders include: Curtin University; the Australian National University (ANU); the WA Department of Education; the Science Teachers' Association of WA (STAWA); the Association of Independent Schools of WA (AISWA); the Australian Research Council; and the Gravity Discovery Centre.
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:	3
. Admission to an award course	No
. Credit towards an award course	Yes
. If yes, how much credit?	Credit is less than one unit