



UWA Plus Micro-credentials

Critical Information Summary

Title and brief description	ENVTM501 Data Analysis with R for compositional data. Compositional data are any measurements such as concentrations, proportions, or abundances which are proportions of some whole. Students will learn to identify, curate, analyse, and present compositional data, which are usually multivariate, using the range of packages available in the R/RStudio environment.
Certified learning	(1) demonstrate an understanding of the unique properties of multivariate compositional data such as chemical analyses, species abundances, etc.; (2) develop an overview of multivariate ordination methods and how to implement these in the R/RStudio environment; (3) use and interpret multivariate and associated methods in R/RStudio to analyse a compositional dataset; and (4) use and interpret graphical presentation in R/RStudio to understand multivariate output.
How learner participated	Online only
Effort required (indicative)	50 hours
Main assessment task	(1) Testing recall of facts and (2) Application of multiple skills to complex problems
Indicative equivalent level	Postgraduate
Quality assurance	Not applicable
Successful learner earns PD	2
Points for conversion to:	
. Admission to an award course	No
. Credit towards an award course	Yes
. If yes, how much credit?	Credit is less than one unit