

### UWA Plus Micro-credentials

#### Critical Information Summary

Title and brief description	<p>SCIEM504 Data Analysis with R for Agricultural and Environmental Science</p> <p>This micro-credential equips students with the knowledge and skills needed to undertake data analysis using the R software platform at a standard consistent with most workplace demands. Students are introduced to data analysis, and learn how to recognise the appropriate statistical technique for different data types, and how to execute appropriate analysis using R. Students are also introduced to the workflow associated with reproducible report generation, the advanced graphics capacity of R, and basic programming concepts that allow R to be used to automate repetitive data management and analysis tasks.</p>
Certified learning	<ol style="list-style-type: none"> <li>1. Collect, manage, and interpret observational and experimental data.</li> <li>2. Formulate testable hypotheses and use appropriate methods to test them.</li> <li>3. Use R/RStudio to prepare professional high quality reports that seamlessly integrate data analysis, graphics, and general reporting.</li> </ol>
How learner participated	Online only
Effort required (indicative)	150 hours
Main assessment task	Application of multiple skills to complex problems
Supervision and identity verification	Unsupervised, no identity verification
Indicative equivalent level	Masters
Quality assurance	The University of Western Australia
Successful learner earns PD Points for conversion to:	6
<ul style="list-style-type: none"> <li>• Admission to an award course</li> </ul>	No
<ul style="list-style-type: none"> <li>• Credit towards an award course</li> </ul>	<p>Yes</p> <p>Unspecified credit towards a Master of Agricultural Economics, Master of Agricultural Science, Master of Biotechnology or Master of Environmental Science (6 PD points required).</p>
<ul style="list-style-type: none"> <li>• If yes, how much credit?</li> </ul>	Credit is one unit