

Ecology major graduate attributes

Graduate attribute	Courses that address the attribute
1. Scientific Method	BIOL1030, *BIOL2010, BIOL2015
2. Search for and identify papers in the primary literature. Understand how publications vary in quality across journals	BIOL1030
3. Read and interpret, critique peer-reviewed scientific literature	*BIOL2010
4. Write a proper full lab report – not an independent research report but a lab style report	BIOL1030, *BIOL2010, BIOL2015, BIOL2201, MARS2014
5. Understand how to develop the methods for an ecology field study	*BIOL2010, BIOL2015, BIOL3015, BIOL3207, BIOL3226
6. Basic experimental design and analysis of standard ecological data	*BIOL2006
7. Be able to articulate and support research questions or hypotheses (for example write a research proposal but not necessarily in that form)	*BIOL2010, BIOL3016, BIOL3015, BIOL3207, BIOL3215, BIOL3226, BIOL3010
8. Write a full research project report in the form of a scientific paper based on data collected by students (years 3)	BIOL3015, BIOL3207, BIOL3016
9. Oral presentation of research projects (either from peer reviewed literature or their own work) – <u>NOT a group presentation</u>	MARS2014, *BIOL3214, BIOL3010
10. Integrate information to answer questions beyond what has been presented in lectures (Year 3)	*BIOL2010, BIOL3214, BIOL3010
11. Conduct an independent ecology study	BIOL3015, BIOL3016, BIOL3207, BIOL3226
12. Collect/record observation/ data from a self-designed field experiment	BIOL3015, BIOL3207, BIOL3226,
13. Analyse and present findings from a real dataset	BIOL3015, BIOL3016, BIOL3207, BIOL3215, BIOL3010
14. Understand the value of theoretical models for basic and applied ecology	*BIOL3214, BIOL3010
15. Expert knowledge of the ecology of a range of organisms (by the end of degree)	Various courses

*compulsory course