

## Biology 1

**What we would like you to do:** Please consider the information provided below on a module and the prompt cards available to each group. Please select **ONE** of the learning outcomes and discuss how you could provide formative tasks prior to summative assessment, how you would assess this learning outcome, whether and how you provide feed forward prior to the final assessment, and by what method(s) you would provide final feedback...and how quickly.

**Module background:** There are 250 students enrolled on this first year Biology module and it is worth 20 credits (full time students study a total of 120 credits in the year). The module is taught over the first 13 week semester.

**Aims:** This module aims to provide the student with a sound understanding of basic biological principles

### **FOR THIS EXERCISE REMEMBER TO CHOOSE JUST ONE LEARNING OUTCOME**

**Learning Outcomes. Students should be able to:**

- \* Describe prokaryotic and eukaryotic cell organisation
- \* Describe molecular structures of carbohydrates, lipids and proteins and explain their roles in living organisms
- \* Explain the properties and significance of enzymes
- \* Describe photosynthesis and respiration including biochemical pathways
- \* Describe structure and function of mammalian organs and systems
- \* Recognise the significance of bacteria, viruses and eukaryotic parasites as disease organisms
- \* Explain mechanisms of inheritance
- \* Explain the significance of Darwin's Theory of Natural Selection as it applies to evolutionary theory

### **Outline content**

This module begins with an exploration of cell organisation, dealing with both eukaryotes and prokaryotes. Study of the biochemical level of organisation, structure and function of mammalian organs and systems and plant transport systems are also considered. The final part of the module deals with the unifying theme of reproduction, genetics, natural selection and evolution.