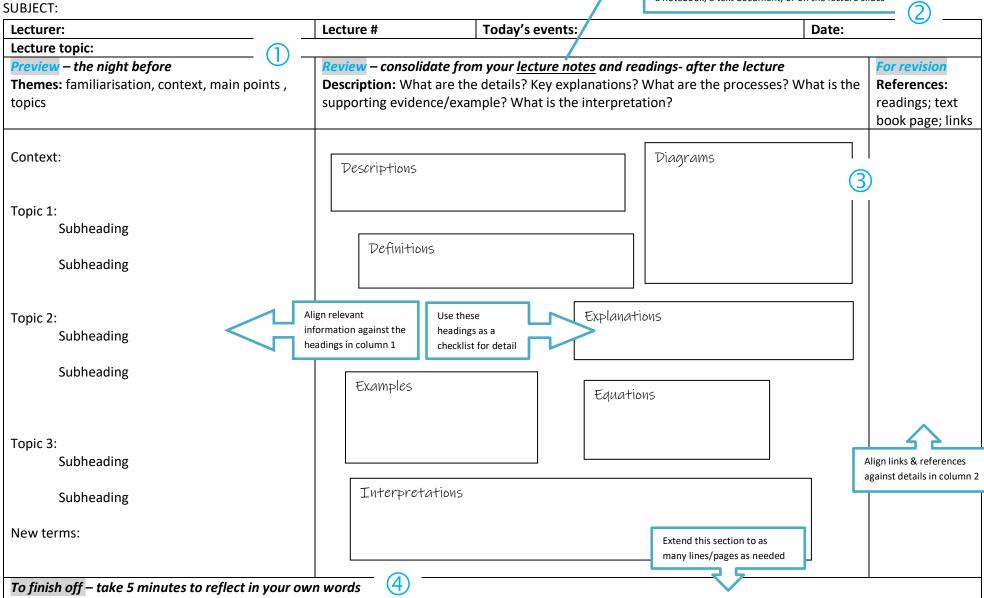


Lecture Summary Template - Guide



Make your notes separately as dot points in either in a notebook, a text document, or on the lecture slides



Interpretation: What is the purpose of this lecture? What is the take home message? Is there an underlying message? How does this topic link with previous lecture topics and tutorials? How does this relate to readings? What questions should I ask myself?



Lecture Summary Template - Guide



Example of part of a lecture. The full lecture extends over several pages

SUBJECT: BC3203 Bioinformatics

Lecturer: Ira Cooke Lecture # 7 Today's events: housemate's birthday Date: 16/09/2019 Lecture topic: Statistical analysis of microbial data			
Lecture topic: Statistical analysis Preview – the night before Themes: familiarisation, context, main points, topics Topic 1: Diversity metrics in microbial ecology • Alpha and beta diversity Topic 2: Measures of diversity can be: • Qualitative & quantitative • Phylogenetic & non- phylogenetic Topic 3:	Review – consolidate from your lecture notes an Description: What are the details? Key explanation supporting evidence/example? What is the interpolar Alpha diversity: diversity within a sample – Used for individual samples Beta diversity: diversity between samples – Used for multiple samples – Are distances Diversity metrics can be: Qualitative:	and readings- after the lecture ations? What are the processes? What is the	For revision References: readings; text book page; links Read clustering chapter in Modern Statistics for Modern Biology for next week: http://web.stanford.edu /class/bios221/book/Chap- Clustering.html
		Beta diversity measures: - Jaccard distance - Bray-Curtis distance - Unweighted UniFrac - Weighted UniFrac	

To finish off – take 5 minutes to reflect in your own words

Interpretation: What is the purpose of this lecture? What is the take home message? Is there an underlying message? How does this topic link with previous lecture topics and tutorials? How does this relate to readings? What questions should I ask myself?

Know the different alpha and beta diversity measures (when are they used? How are they classified? What are their limitations? How are they calculated?)

Builds on to how to interpret diversity metrics using clustering and multidimensional scaling