

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

SUBJECT:

Lecturer:	Lecture #	Today's events:	Date:
Lecture topic: <i>Preview – the night before</i> Themes: familiarisation, context, main points, topics	Review – consolidate from your lecture notes and readings- after the lecture Description: What are the details? Key explanations? What are the processes? What is the supporting evidence/example? What is the interpretation?		For revision References: readings; text book page; links
Context: Topic 1: Subheading Subheading Topic 2: Subheading Subheading Topic 3: Subheading Subheading New terms:	<div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 5px; width: 45%;">Descriptions</div> <div style="border: 1px solid black; padding: 5px; width: 45%;">Diagrams</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="border: 1px solid black; padding: 5px; width: 45%;">Definitions</div> <div style="border: 1px solid black; padding: 5px; width: 45%;">Explanations</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="border: 1px solid black; padding: 5px; width: 45%;">Examples</div> <div style="border: 1px solid black; padding: 5px; width: 45%;">Equations</div> </div> <div style="border: 1px solid black; padding: 5px; width: 100%; margin-top: 20px;">Interpretations</div>		(3)
<p>To finish off – take 5 minutes to reflect in your own words</p> <p>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?</p>			

1

2

3

4

Align relevant information against the headings in column 1

Use these headings as a checklist for detail

Align links & references against details in column 2

Extend this section to as many lines/pages as needed

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

SUBJECT: *BC3203 Bioinformatics*

Lecturer: <i>Ira Cooke</i>	Lecture # <i>7</i>	Today's events: <i>housemate's birthday</i>	Date: <i>16/09/2019</i>
Lecture topic: <i>Statistical analysis of microbial data</i>			
Preview – the night before Themes: familiarisation, context, main points, topics	Review – consolidate from your lecture notes and readings- after the lecture Description: What are the details? Key explanations? What are the processes? What is the supporting evidence/example? What is the interpretation?		For revision References: readings; text book page; links
<p><u>Topic 1:</u> Diversity metrics in microbial ecology</p> <ul style="list-style-type: none"> • Alpha and beta diversity <p><u>Topic 2:</u> Measures of diversity can be:</p> <ul style="list-style-type: none"> • Qualitative & quantitative • Phylogenetic & non-phylogenetic <p><u>Topic 3:</u></p> <ul style="list-style-type: none"> • Methods to interpret diversity metrics <ul style="list-style-type: none"> - Hierarchical clustering (see reading section) 	<p><u>Alpha diversity: diversity within a sample</u></p> <ul style="list-style-type: none"> - Used for individual samples <p><u>Beta diversity: diversity between samples</u></p> <ul style="list-style-type: none"> - Used for multiple samples - Are distances <p><u>Diversity metrics can be:</u></p> <p>Qualitative:</p> <ul style="list-style-type: none"> - Used for presence/absence <p>Quantitative:</p> <ul style="list-style-type: none"> - Account for abundance <p>Phylogenetic:</p> <ul style="list-style-type: none"> - Use evolutionary relationships <p>Non-phylogenetic:</p> <ul style="list-style-type: none"> - Are all treated equally 		<p>Read clustering chapter in Modern Statistics for Modern Biology for next week:</p> <p>http://web.stanford.edu/class/bios221/book/Chap-Clustering.html</p>
<p>To finish off – take 5 minutes to reflect in your own words</p> <p>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?</p> <p><i>Know the different alpha and beta diversity measures (when are they used? How are they classified? What are their limitations? How are they calculated?)</i></p> <p><i>Builds on to how to interpret diversity metrics using clustering and multidimensional scaling</i></p>			