Week	Todo	Summary	Details	
2-3	Sign up to a project group for Module 2 in your practical session.	Everyone in your group must attend the same practical session.		
4	Attend your practical session.	Work with your group to discuss and plan your project.	Form your hypothesis: as a group, convert the general biological question into specific biological hypotheses and predictions.	
		Pick up any gear that you need, to run your pilot study. After the practical, contribute to your group's pilot study practical work, read relevant literature, and start preparing for your written report.	you need, to run your pilot study. After the practical, contribute to your group's pilot study practical work, read relevant literature, and start preparing for your written report. with your group, design a simple expending hypothesis. Ensure your design can be you are familiar with (e.g. from Janua and Module 1 practicals). Draw a graph of how you expect your Clare's lectures). Decide what stats at why (refer to Clare's lectures). If you can ready to run your experiment. Draft your data sheets: as a group, design a simple expending hypothesis. Ensure your design can be you are familiar with (e.g. from Janua and Module 1 practicals). Draw a graph of how you expect your clare's lectures). If you do not ready to run your experiment. Draft your data sheets: as a group, design a simple expending to the provide and Module 1 practicals). Draw a graph of how you expect your clare's lectures and starts and why (refer to Clare's lectures). If you do not ready to run your experiment.	Draw a graph of how you expect your data to look (refer to Clare's lectures). Decide what stats analysis is appropriate and why (refer to Clare's lectures). If you can't work this out, you are
		need to do the research based aroun	Work out what equipment you'll need: decide equipment you need to do the research based around what we can supply you. Consult Clare, technical staff and/or demonstrators then make a list.	
				For some projects, you will be able to take gear home straight away to run a pilot study. For others, you need to plan now and pick up gear in
			consultation with the technical staff. When contacting the tech	

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			staff, ensure you state your name and day , group number and project , e.g. BIOL2022 WED 2 to 4pm, Group 7 birds, Joe Blogs.
			Plan your pilot study in class and run it before week 5 practical session: this will help you refine your main experiment. Everyone in your group must contribute.
			Clare, technical staff and demonstrators will be available in the Lab to discuss expectations for this practical module and plans for the coming weeks in session, and in your own time.
			Your group should aim to be self-sufficient out of practical times. However, for technical help outside of the practical, or last-minute changes gear to be picked up, please contact heather.sowden@sydney.edu.au.
5	Attend your practical session.	Finalise the design and plans for your main experiment based on your pilot study and your reading of the relevant scientific literature Pick up any gear that you need for your main experiment.	Discuss what you learnt from your pilot study with your group. Tweak the design of your main experiment if you need to: make any adjustments to your plans and finalise your main experiment and its experimental design. Know what stat tests you'll be doing: ensure you know how you expect to statistically analyse your results, e.g. what your response and explanatory variable(s) are, what form and hence what stats test you intend to do. Clare, technical staff and demonstrators will be available in the Lab to discuss your plans and provide feedback and gear. For technical help outside practicals, or last-minute changes gear to be picked up, please contact heather.sowden@sydney.edu.au.
5 – 7	Work with your group.	Set up your main experiment, run it,	Collate the data: collate your group's data into one Excel file – e.g. using Google Sheets. Include both a metadata worksheet

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		collect and collate the data. Everyone in your group must contribute.	and a clean results array in its own worksheet for data analysis. You can also have other worksheets for anything you want to record, plot, etc.
			Finalise data collation before week 7 practical if you can, leaving you more time for data analysis in Week 7 practical.
			For technical help outside practicals, or last-minute changes gear to be picked up, please contact heather.sowden@sydney.edu.au .
7	Attend your practical session. Work with your group.	Finalise data collation of your main experiment (including metadata).	If you have not done so already, finalise data collation: spend no more than 30 mins of the practical finalising data collation into an Excel spreadsheet. Preferably, have this done before this practical session.
		Start data analysis of your main experiment (and if possible, complete it) Decide what plots and particular stats output you will need to report in the results section of your written report.	 Metadata: include a metadata worksheet that summarises important information referring to your data, such as: names of group members the dates the experiment was run sites where you collected data response (i.e. dependent) variables and their units of measurement, explanatory (i.e. independent) variables, such as treatments (and the levels within each treatment) and any continuous variables anything to help you understand your project and data if you were to publish it for the world to see and understand, e.g. what the columns in your data sheet mean
			Plot, analyse and interpret: in the remaining practical time (at least an hour) using your group's data set, each group member should individually learn to use Excel and R or SPSS to plot your

Week	Todo	Summary	Details
			data, run appropriate statistical analyses and interpret your results. You need to think about what stats results you need in the results section of your written report. Fantastic if you can complete this task by the end of week 7.
			Note : It is okay to work with other group members to plot and run the tests. However, each group member should do the analyses on their own so that they learn; watching someone else is not enough.
7-8	In your own time.	Continue your data analysis if you have yet to complete it. Start <i>drafting</i> your report.	Data analysis: as above Drafting your report: make a start on your report, e.g. framework for Introduction, Materials and Methods, and Results. You could leave the Discussion until you have finalized your Results. Refer to: Clare's tips on writing your report More tips on writing your report Module 2: Marking Scheme for Project Report. For technical help outside practicals, contact heather.sowden@sydney.edu.au.
8	Attend your practical session. Work with your group.	Clare will go through writing your report. Finalise analyses, stats output and graphs.	As a group: prepare your Excel data file for submission. The filename should be of the form Day-Time-Project, e.g. "WED2-4pmProj4A". This file must include: • a metadata worksheet • a worksheet of the data array you will have imported to a stats package for analysis • any other worksheets with workings, plots, etc. • As individuals: each group member needs to work on writing their report by: • completing their own results and graphs

Week	Todo	Summary	Details
			 deciding what they will include in their individual report deciding how they will present the data and the associated statistics
9	Submit your assignment.	Submit your group's data and your written report in separate assignments in Canvas.	 Report 1 Dataset Submission: one person from your group needs to submit the group's data for this Canvas assignment. Report 1 (individual): each person in your group needs to submit their own report for this Canvas assignment.