**Research Methods for 3122 2022/23**

**Lecturer – Kath O’Reilly**

In this session we will cover the following learning objectives:

* *Formulate appropriate research questions*
* *Create testable hypotheses*
* *Identify characteristics of good study design*
* *Apply appropriate study designs to given research questions*

**The schedule for the session is as follows:**

**TODAY**

**09:00-10:00:** Lecture covering key topics of research methods

*During this session you will be asked to provide “3 word” projects, which we will use as the starting point for developing your own research project*

**10:30-11:00**– develop ideas into project titles, form groups to work together

We will have Research projects to choose and form groups

Padlet link here: <https://padlet.com/kath_m_oreilly/eur3ct6k1ybav8f1>

**11:00-12:30** - Groups working on rapid-project

Template for Google presentation:

<https://docs.google.com/presentation/d/1Y2WOQcWZj8OSbMpCO3oveX7jHXTZ5v2KfB7c2rrRsS8/edit?usp=sharing>

**TOMORROW**

**14:00-15:00 -** Drop-in sessions to discuss project

**15:00-16:00 -** Group presentations and feedback

* Presentation limited to 7 mins presentation & 3 mins questions
* Feedback will be provided by tutor and from student group

|  |  |
| --- | --- |
| Steps for Project Development | **Details** |
| **“3 word” project**   * Write down 3 words that might relate to an interesting project |  |
| **Research Question**   * Revise the 3 words to a Research Question |  |
| **Hypothesis test**   * State your Research Question as null / alternative hypotheses |  |
| **Study components**   * What is the outcome variable? * What other aspects can you specify now? |  |
| **Study Characterisation**   * Does the study conform to a specific study design? |  |