

THE UNIVERSITY OF SYDNEY  
MATH1005 Statistics

Semester2	Course Overview	2016
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### Aim of Course

To develop foundational statistical literacy which can be transferred to any discipline:  
how to understand data (Part1), how data arises from populations (Part2), and how to use data to test hypotheses and make inferences about the population (Part3).

Week	Topic	Tute/Lab	Assessment
	<b>1. Exploratory Data Analysis</b>		
1 25-26/7	Topic1: Data and Graphical Summaries	Intro Tute (Self Study)	
2 1-2/8	Topic2: Numerical Summaries	Topic1	
3 8-9/8	Topic3: Bivariate Data	Topic2	
	<b>2. Probability and Distribution Theory</b>		
4 15-16/8	Topic4: Probability, RVs and Distributions	Present Report1 Topic3 (Self Study)	Report1 10%
5 22-23/8	Topic5: Discrete Random Variables	Topic4	Quiz1 5%
6 29-30/8	Topic6: Continuous Random Variables	Topic5	
7 5-6/9	Topic7: Combinations of Random Variables	Topic6	
	<b>3. Hypothesis Testing and Inference</b>		
8 12-13/9	Topic8: Hypothesis Testing	Topic7	Report2 5%
9 19-20/9	Topic9: Tests for Proportion	Topic8	Quiz2 5%
Break			
10 4/10	Topic10: Tests for Means	Topic9	
11 10-11/10	Topic11: Test for Goodness of Fit	Topic10	
12 17-18/10	Topic12: Confidence Intervals	Topic11	Report3 5%
13 24-25/10	<b>Revision</b>	Topic12	Quiz3 5%