## UNIT 1
### TERM 3 TOPICS
Exploring and understanding data 2 (4 weeks)
- Q Maths Exercises: 4.1, 12.3
- Maths Quest Exercises: 4A, 4B, 4D, 4E
  - use of summary statistics to draw and analyse conclusions, represent data and make inferences
  - summary statistics as sample statistics sample averages and medians as estimates of values
  - interpretation in context of row and column percentages for a contingency table (two-way table of frequencies)
  - misuse of probabilities, including misinterpretation of row and column percentages in contingency tables
- Operations Research - networks and queuing 2 (4 weeks)
  - Maths Quest Exercises: 8A  8D
  - single- and multiple-server queues with constant arrival and service times
  - the effects on a queuing system of random arrival and service times
  - slack time in a critical path analysis

### ASSESSMENT
Assignment 4.2: Statistical Investigation.
- Handed out: Week 2 Mon 23/7
- Exam 4.1a (Topic 4.1) 90min
- Exam 4.1b (Topic 4.) 90min

### DUE DATE
- Week 5
- Due Date: Mon 13/8
- Week 7
- Tuesday 28th August Lessons 5 and 6
- Week 9
- Friday 14th September L1 & 2

## UNIT 2
### TERM 4 TOPICS
Exploring and understanding data 3 (5 weeks)
- Maths Quest Exercises: 9A, 9B, and 10A10H.
  - what a sample represents, and whether it is an appropriate measure
  - the interpretation and use of sample averages and medians as estimates of underlying population values or of values in a model
  - interpretation and use of relative frequencies to estimate probabilities of individual values for discrete variables (including categories) and of intervals for continuous variables
  - interpretation and use of probability as a measure of chance in a range of practical and theoretical situations

### ASSESSMENT
Exam 4.3

### DUE DATE
- Week 5
- Exam Block TBA

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This work plan was last updated on Tuesday, 28 August 2018. The contents are subject to change – students will be advised in advance of any changes - regularly check for updates.