EE3001 Foundations of Data Engineering
http://www.cityu.edu.hk/ug/current/course/EE3001.htm

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Course Aim

- This is a new course to be offered in Sem. B 2016/17

- The aim of this course is to provide students with an understanding of the basic techniques used in data engineering and give introductory examples to how these techniques are applied to more advanced data engineering applications.
Data helps us to identify problems
Data helps us to identify correlations and trends.
Data helps us to make predictions
Beware of incorrect use/pitfalls/limitations in using data

Birthdays are good for your health.

Studies have shown that people who have the most birthdays live the longest.

(taken from All models are wrong, 7 sources of model risk (accessed 24 Aug. 2016))
Course Topics (Provisional)

- Fundamentals of Statistics
- Descriptive Statistics
- Probability
- Probability Distributions
- Sampling Distributions and Confidence Intervals
- Hypothesis Testing
- Regression
- Predictive and Descriptive Analytics
- How to correctly use data analysis tools and their limitations
Assessment Methods

• Continuous Assessment 40%
  • Quizzes. There may also be assignments and small projects

• Examination 60%
  • 2 hour examination

• Students need to obtain at least 35 (out of 100) in both the Continuous Assessment and Examination to pass the course
References

• All images in this presentation, except explicitly stated, are publicly available in Google Images.