

Why Numbers Matter: Quantitative Research

IN THIS COURSE YOU WILL:

- apply statistical analysis to make decisions about real world problems
- interpret bivariate correlations
- design a quantitative study to answer a research question

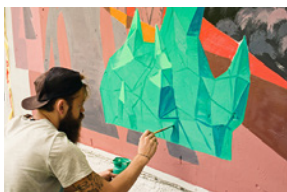
WEEK 1: DESIGNING A STUDY



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Let's get started

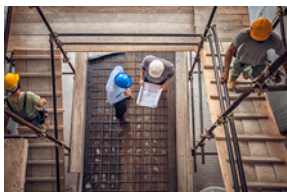
Discuss the importance of using numbers to make decisions.



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Building a picture of your problem

Construct a picture of the shape and dimensions of your research project, and identify what to measure.



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Applications of quantitative research

Apply quantitative research to a research question.



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Study design

Apply the principles of study design.

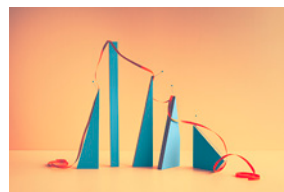
WEEK 2: STATISTICS



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Introduction to statistics

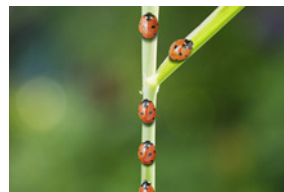
Identify how statistics can solve problems.



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Averages, proportion and distribution

Calculate averages, standard deviation and confidence intervals.



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Cause, effect and correlation

Distinguish between cause, effect and coincidence. Interpret bivariate correlation.



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Your study design

Create your study design.