

# Module 01: Introduction

FCIT 607: Data, Methods, and Models for Future Cities

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**Abstract**

This learning module ...

# Module Overview

Learning Objectives . . . . .	1
Module Topics . . . . .	1
Assigned Reading + Lecture Slides . . . . .	1
Lab . . . . .	2
Questions, Tasks, and Challenges . . . . .	2
Recommended Additional Resources . . . . .	2
References . . . . .	2

## Learning Objectives

**i** By the end of the course module, students will be able to:

1. Coming soon...
2. Coming soon...
3. Coming soon...

## Module Topics

- Personal Introductions + Learning Goals
- Teaching Modelling and Quantitative Data Analysis: What's Wrong with the Status Quo?
  - The Status Quo
  - Statistical Golems
  - Null Hypothesis Significance Testing (NHST)
  - *Bad* Controls
  - Transparency and Accountability, Reproducibility, Ethics
- We Can Do Better!
  - Statistical Problem Solving; Probabilistic, Systems, and Futures Thinking
  - Prior Knowledge; Causal Models and *Good* Controls
  - Reproducible Research and Model-based Data Analysis
- Overview of Course Topics, Learning Objectives, Assessment Methods, and Software

## Assigned Reading + Lecture Slides

- [Introduction](#)
- [Module 1 Slides](#)

## **Lab**

Coming soon...

## **Questions, Tasks, and Challenges**

Coming soon...

## **Recommended Additional Resources**

- Coming soon...

## **References**