

# BUSN 5000

## Weekly Schedule

Chris Cornwell

Fall 2023  
(updated 22 Sep 23)

Class Room: Amos B010  
Recitation Room: Ivester 007

Class Hours: TR, 935a and 1110a  
Recitation Hours: R, 545p-645p

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### Deadlines

The **deadline** for submitting all homework and project assignments is **1159p** on the due date. Late submissions will not be accepted.

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### Week 1 :: Data Fundamentals

*Reading:* Bekes and Kedzi, ch 1; Bueno de Mesquita and Fowler, ch 1; [Healy, ch 2](#)

*IRL:* [“The Data Coach”](#), *Against the Rules*, Season 2 Episode 5.

*Due:* Homework 0 – **Fri, Aug 25**

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### Week 2 :: Beginning to Learn

*Reading:* Bekes and Kedzi, chs 2-3

*IRL:* [“What Can Uber Teach Us About the Gender Pay Gap?”](#), *Freakonomics Radio*, Episode 317.

*Due:* Homework 1 – **Mon, Aug 28**

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### Week 3 :: Models for Exploration

*Reading:* Bekes and Kedzi, ch 4; Bueno de Mesquita and Fowler, ch 2,4

*IRL:* [“No-Code’ Brings the Power of A.I. to the Masses”](#), *New York Times*, 15 Mar 22.

*Due:* Homework 2 – **Mon, Sep 4**

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### Week 4 :: Making Inferences

*Reading:* Bekes and Kedzi, chs 5-6; Bueno de Mesquita and Fowler, ch 6

*IRL:* [“Building a Culture of Experimentation”](#), *Harvard Business Review*, March-April 2021.

*Due:* Homework 3 – **Mon, Sep 11**

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## **Week 5 :: Measurement Error and Sample Selection**

*Reading:* Bueno de Mesquita and Fowler, ch 16

*IRL:* [“How Bad Data Traps People in the US Justice System”](#), *Ted Talks*, April 2022.

*Due:* Homework 4 – **Mon, Sep 18**

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## **Week 6 :: Confounding and the Bayesian Approach to Learning from Data**

*Reading:* Bueno de Mesquita and Fowler, ch 15

*IRL:* [“Do We Live in a Simulation? Chances are about 50-50”](#), *Scientific American*, 13 Oct 20.

*Due:* Homework 5 – **Mon, Sep 25**

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## **Week 7 :: Data Ethics and Part I Exam**

*Due:* Project I – **Mon, Oct 2**

**PART I EXAM:** **Thu, Oct 5** (in class)

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## **Weeks 8-9 :: Regression fundamentals**

*Reading:* Bekes and Kedzi, chs 7-10; Bueno de Mesquita and Fowler, ch 5; Angrist & Pischke, ch 2

*IRL:* [“Causal Modeling and Sequence Data”](#), *Super Data Science*, Episode 617.

*Due:* Homework 6 – **Mon, Oct 24**

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## **Week 10 :: Potential outcomes and causal inference**

*Reading:* Bekes and Kedzi, chs 19-20; Bueno de Mesquita and Fowler, chs 3, 9-11; Angrist & Pischke, ch 1

*IRL:* [“Edward Miguel on Collecting Economic Data by Canoe and Correlating Conflict with Rainfall”](#), *People I Mostly Admire*, Episode 50.

*Due:* Homework 7 – **Mon, Oct 31**

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## **Week 11 :: Regression discontinuity**

*Reading:* Bueno de Mesquita and Fowler, ch 12; Angrist & Pischke, ch 4

*IRL:* [“Does Advertising Actually Work? Part I”](#), *Freakonomics Radio*, Episode 440.

*Due:* Homework 8 – **Mon, Nov 6**

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## **Week 12 :: Difference in differences**

*Reading:* Bekes and Kedzi, ch 22; Bueno de Mesquita and Fowler, ch 13; Angrist & Pischke, ch 5

*IRL:* [“Does Advertising Actually Work? Part II”](#), *Freakonomics Radio*, Episode 441.

*Due:* Homework 9 – **Mon, Nov 13**

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### **Weeks 13-15 :: Introduction to machine learning**

*Reading:* Bekes and Kedzi, chs 13-14; [“Machine Learning: An Applied Econometric Approach”](#), *Journal of Economic Perspectives*, Spring 2017.

*IRL:* [“Prediction Machines: The Simple Economics of AI”](#), Talks at Google, 25 May 2018.

*Due:* Homework 10 – **Fri, Dec 1**

**THANKSGIVING BREAK, NOV 22-24**

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### **Weeks 16-17 :: Project II and Part II Exam**

*Due:* Project II – **Mon, Dec 4**

**PART I EXAM (1110 section):** Thu, Dec 7 (in class)

**PART I EXAM (935 section):** Tue, Dec 12 (in class)

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