



THE UNIVERSITY OF CHICAGO
**HARRIS SCHOOL
OF PUBLIC POLICY**

Orientation

Math & Coding Camp 2025

Coding Camp (Standard/Accelerated)

Instructors: Sheng-Hao Lo (shenghaolo@uchicago.edu), Standard Instructor
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Harry Franklin (hmfranklin14@uchicago.edu), Master's Instructor

Curriculum: Detailed Topics/Modules on Page 2

(Tentative Course Schedule – subject to change)

Day	Date	Lecture/Topic: Standard	Lecture/Topic: Accelerated
1	Tuesday, 9/2	No Coding: Module 0 (pre-work)	No Coding: Module 0 (pre-work)
2	Wednesday, 9/3	Lecture 1: Module 1	Lecture 1: Modules 1&2
3	Thursday, 9/4	Lecture 2: Module 2	TA Session Only
4	Friday, 9/5	Lecture 3: Module 3	Lecture 2: Modules 3&4
5	Monday, 9/8	Lecture 4: Modules 3 and 4	TA Session Only
6	Tuesday, 9/9	Lecture 5: Modules 4 and 5	Lecture 3: Module 5
7	Wednesday, 9/10	Lecture 6: Module 5	TA Session Only
8	Thursday, 9/11	Lecture 7: Module 6	Lecture 4: Module 6
9	Friday, 9/12	Lecture 8: Module 7	Lecture 5: Module 7
10	Monday, 9/15	Lecture 9: Module 8	Lecture 6: Module 8
11	Tuesday, 9/16	Lecture 10: Module 9	Lecture 7: Module 9
12	Wednesday, 9/17	Lecture 11: Module 9	Lecture 8: Module 10
13	Thursday, 9/18	Lecture 12: Module 10	TA Session Only
14	Friday, 9/19	Lecture 13: Module 11	TA Session Only



Detailed Topics/Modules:

Module 0: R and RStudio Installation

Module 1: An Introduction and Motivation for R Programming

Module 2: Installing Packages, Reading Data and Accessing Data

Module 3: Vectors, Lists and Data Frames

Module 4: If Statements and Conditions

Module 5: Data Manipulation (I) – dplyr verbs, part I

Module 6: Data Manipulation (II) – dplyr verbs, part II

Module 7: Data Manipulation (III) – Descriptive Statistics and Linear Regression

Module 8: Data Manipulation (IV) – Grouped Analysis and Combining Data
Frames

Module 9: Data Visualization

Module 10: Iteration and Loops

Module 11: Functions