

Coding Camp (Standard/Accelerated)

Harris Math & Coding Camp

Summer 2023

Tentative Course Schedule (subject to change)

Week	Date	Lecture/Topic (Standard)	Lecture/Topic (Accelerated)
1	8/28	No class; Module 0 (pre-work)	
	8/29	Lecture 1: Module 1	Lecture 1: Modules 1&2
	8/30	Lecture 2: Module 2	TA Session Only
	8/31	Lecture 3: Module 3	Lecture 2: Modules 3&4
	9/1	Lecture 4: Module 4	TA Session Only
2	9/4	Labor Day (No class)	
	9/5	Lecture 5: Module 5-1	Lecture 3: Module 5
	9/6	Lecture 6: Module 5-2	TA Session Only
	9/7	Lecture 7: Module 6-1	Lecture 4: Module 6
	9/8	Lecture 8: Module 6-2	Lecture 5: Module 7
3	9/11	Lecture 9: Module 7-1	Lecture 6: Module 8
	9/12	Lecture 10: Module 7-2	Lecture 7: Module 9
	9/13	Lecture 11: Module 8	Lecture 8: Module 10
	9/14	Lecture 12: Module 9	TA Session Only
	9/15	Lecture 13: Module 10	TA Session Only

Topics/Modules

Module 0: R and RStudio Installation Guide

Module 1: An Introduction and Motivation for R Programming

Module 2: Installing Packages and Reading Data

Module 3: Vectors and Lists

Module 4: If Statements

Module 5: Data Manipulation and Analysis (I)

- Standard: Base R (5-1), Tidyverse (5-2)
- Accelerated: Base R + Tidyverse

Module 6: Data Manipulation and Analysis (II)

- Standard: Base R (6-1), Tidyverse (6-2)
- Accelerated: Base R + Tidyverse

Module 7: Data Visualization

- Standard: Base R (7-1), Tidyverse (7-2)
- Accelerated: Base R + Tidyverse

Module 8: Grouped Analysis

Module 9: Iteration

Module 10: Functions