	Monday	Wednesday	Friday
Week 1			01/21/22 Class overview, survey, types of data analysis (predictive, descriptive,)
	01/24/22	01/26/22	01/28/22
Week 2	Examples of predictive data analysis 01/31/22	Examples of predictive data analysis (continued) HW 1 out 02/02/22	* Discuss final project expectations * Intro to scipy 02/04/22
Week 3	Supervised vs. unsupervised learning, clustering with examples in scipy	Scipy: clustering, linear regression HW 1 due, HW 2 out	Scipy: linear regression
Week 4	02/07/22 Evaluating performance of machine learning	02/09/22 Mean-squared error and other loss functions	02/11/22 ML topics: * overfitting vs. underfitting
Week 5	algorithms 02/14/22 Continuation: * improving predictions * navigating bias vs. variance tradeoff TUESDAY: 02/22/22	HW 2 due, HW 3 out 02/16/22 * Cross-validation * evaluating model performance HW 3 due, HW 4 out 02/23/22	* bias vs. variance 02/18/22 * Model selection * Hyperparameter tuning 02/25/22
Week 6	Software decumentation	Various features of programming languages * compiled/interpreted * garbage collection/manual memory management * type checking: run time / compile time	Pust: compilation simple
	Software documentation, auto-generation 02/28/22	HW 4 due, HW 5 out 03/02/22	Rust: compilation, simple examples 03/04/22
Week 7	MIDTERM	Rust: simple examples continued, simple types, type inference HW 5 due, HW 6 out	Rust: flow control
SPRING BREAK			
Week 8	03/14/22	03/16/22 * CS: heap vs stack * CS: manual memory management	03/18/22
	Rust: functions, generic types	* Rust: ownership & references HW 6 due, HW 7 out	* Rust: collections * Discuss implementation cost Final project proposal due
	03/21/22	03/23/22	03/25/22
Week 9	Rust: enums and pattern matching 03/28/22	Rust: struct and methods HW 7 due, HW 8 out 03/30/22	* Linked lists * Queue vs stack * Rust: pointers and implementation of lists 04/01/22
Week 10	* CS: typical ways of representing graphs (sparse and dense) * implementation in Rust 04/04/22	* graph exploration: BFS/DFS HW 8 due, HW 9 out 04/06/22	Rust: packages, modules, crates 04/08/22
Week 11	Rust: error handling 04/11/22	Rust: traits HW 9 due, HW 10 out 04/13/22	Rust: references / lifetimes 04/15/22
Week 12	* CS: priority guayas	* CS: (balanced) binary search trees * (unbalanced) implementation in Rust	searching,
Week 13	* CS: priority queues	HW 10 due, HW 11 out 04/20/2022 (Mon schedule) Rust: Multithreading HW 11 due, HW 12 out	predecessor/successor search 04/22/22 Rust: multithreading (continued)
Week 14	04/25/22 * Algorithm design: greedy	04/27/22 * Algorithm design: dynamic algorithms	04/29/22
Week 15	algorithms 05/02/22 Calling Rust from Python Final project report due	HW 12 due 05/04/22 Compiling Rust to	Rust: closures
	i mai project report due	WebAssembly	

al project report due WebAssembly FINAL EXAM TO BE SCHEDULED