

# BE 434/534 Spring 2024 Schedule

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## Scheduled Topics/Activities

- TPP = Tiny Python Projects by Ken Youens-Clark

Week 1 (1/10–1/14): Course Introduction and Setup, TPP: Getting Started, HW0: 00\_getting\_started\_part1

Week 2 (1/15–1/21): Writing your first python program, TPP: Ch1, HW0: 00\_getting\_started\_part2

Week 3 (1/22–1/28): Hello (Strings), HW1: 01\_salutations, Practice Quiz 1, TPP: Ch2

Week 4 (1/29–2/4) : Picnic (Lists), HW2: 02\_sum, Practice Quiz 2, TPP: Ch3

Week 5 (2/5–2/11) : Jump the Five (Dictionaries), HW3: 03\_solfege, Practice Quiz 3, TPP: Ch4

Week 6 (2/12–2/18): Howler (Files), HW4: 04\_cat, Practice Quiz 4, TPP: Ch5

Week 7 (2/19–2/25): Words Count (Files, algorithms), HW5: 05\_proteins, Practice Quiz 5, TPP: Ch6

Week 8 (2/26–3/3) : Apples and Bananas (Regular expressions, refactoring), HW6: 06\_common, Practice Quiz 6, TPP: Ch8

Week 9 (3/4–3/10) : Spring Break!

Week 10 (3/11–3/17): Dial-a-Curse/Telephone/Ransom (Randomness), HW7: 07\_iupac, Practice Quiz 7, TPP: Ch9,10,12

Week 11 (3/18–3/24): Bottles of Beer/Twelve Days of Christmas (Algorithms), HW8: 08\_kmers, Practice Quiz 8, TPP: Ch11,13

Week 12 (3/25–3/31) : WOD (Parsing CVS files), HW9: 09\_fasta, Practice Quiz 9, TPP: Ch19

Week 13 (4/1–4/7) : Password (Randomness), HW10: 10\_conserved, Practice Quiz 10, TPP: Ch20

Week 14 (4/8–4/14): Tic-Tac-Toe (State), HW11: 11\_run\_length, Practice Quiz 11, TPP: Ch21

Week 15 (4/15–4/21): Tic-Tac-Toe (Types), HW12: 12\_grep, Practice Quiz 12, TPP: Ch22

Week 16–17 (4/22–5/1): Coding Projects