| Week | Videos | Length | Week | Videos | Length |
|------|------------------------------|---------|------|----------------------------------|---------|
| 1 | Abstraction | 0:17:31 | 5 | Break Week | 0:00:00 |
| | Arrays and Linked List | 0:53:26 | 6 | AVL Trees | 1:01:16 |
| | Bubble Sort | 0:45:28 | | AVL - Exercise | 0:21:18 |
| | Insertion Sort | 0:13:34 | | Red-Black Trees | 0:36:03 |
| | Selection Sort | 0:12:08 | | Red-Black - Exercise | 0:18:47 |
| | Total | 2:22:07 | | Total | 2:17:24 |
| 2 | Merge Sort | 0:40:24 | 7 | <u>B-Trees</u> | 1:27:09 |
| | Quick Sort | 0:21:03 | | 2-3 Trees - Exercise | 0:21:49 |
| | Introduction to Trees | 0:20:54 | | Total | 1:48:58 |
| | m-ary Trees | 0:22:52 | 8 | Hash Table - Definition | 0:53:01 |
| | <u>Tree Traversals</u> | 0:25:38 | | Hash table collisions | 0:49:30 |
| | Total | 2:10:51 | | Total | 1:42:31 |
| 3 | Binary Heaps | 0:39:11 | 9 | Extendible Hashing | 0:47:09 |
| | Random Numbers | 0:28:13 | | Extendible Hashing - Exercise | 0:15:05 |
| | Binary Heaps - Exercise | 0:16:23 | | Linear Hashing | 0:43:50 |
| | Complete Binary Trees | 0:13:25 | | <u>Linear Hashing - Exercise</u> | 0:17:30 |
| | Huffman Compression | 0:53:39 | | Total | 2:03:34 |
| | <u>Huffman - Exercise</u> | 0:08:08 | 10 | <u>Graphs - Definitions</u> | 1:16:07 |
| | Total | 2:38:59 | | Graph Terminology | 0:38:05 |
| 4 | Lempel-Ziv-Welch (LZW) | 0:40:42 | | Graph Traversals | 0:29:12 |
| | LZW - Exercise | 0:08:31 | 10 | Graph Problems | 0:47:39 |
| | LZW Decompression - Exercise | 0:09:40 | | Total | 3:11:03 |
| | Binary Search Trees | 0:30:58 | | | |
| | BST - Exercise | 0:15:04 | | | |
| | Total | 1:44:55 | | | |