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Week 1:

CSE115: Introduction and Number Systems, Number Systems (Continues)
CSE173: introduction to Propositional Logic: Propositions, ILogical Connectives, Truth Tables
CSE231: Introduction to Logic Design, Number Systems in Digital Systems
CSE215: Introduction to Computers, Programs, and Java, Elementary Programming
CSE225: Introduction to Data structure and classes, ADT Unsorted List (Array based)
CSE325: Background of programming languages and paradigms,
CSE331: Fundamental concepts of Microprocessor,
CSE332: introduction to the basic concepts of computers,
CSE373: Introduction, Getting Started

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Week 2:

CSE115: Overview of Computers and Programming, Overview of C
CSE173: Predicate Logic and Quantifiers:Universal and Existential Quantifiers, Rules of Inference
CSE231: Boolean Logic, K-Maps
CSE215: Selections, Loops
CSE225: ADT Unsorted List (Array based), ADT Sorted List (Array based)
CSE325: Evolution of Major Programming Languages,
CSE331: Internal and external architecture of 8086 microprocessor,
CSE332: define processor specification and instruction set architecture,
CSE373: Getting Started (Continues), Growth of functions

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Week 3:

CSE115: Overview of C (Continues), Top-Down Design with Functions
CSE173: Proof Techniques: Direct Proof, Proof by Contradiction, Proof by Contraposition
CSE231: Simplification of Boolean Expressions, Combinational Circuit Design
CSE215: Methods, Arrays
CSE225: ADT Unsorted List (Linked List), ADT Sorted List (Linked List)
CSE325: Describing Syntax and Semantics,
CSE331: Memory Organization of 8086 microprocessor,
CSE332: evaluate the performance of a computing system,
CSE373: Growth of functions (Continues), Divide and Conquer Algorithms

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Week 4:

CSE115: Top-Down Design with Functions (Continues), Selection Structures
CSE173: Proof Methods Continued: Existence Proof, Mathematical Argument Verification

CSE231: Adders and Subtractors, Decoders and Encoders
CSE215: Arrays (Continues), Objects and Classes
CSE225: ADT Stack (Array & Linked List), ADT Queue (Array & Linked List)
CSE325: Names, Bindings, and Scopes,
CSE331: Brief Architecture of RAM and Peripheral Devices,
CSE332: analyze instruction set architecture,
CSE373: Divide and Conquer Algorithms (Continues), Divide and Conquer Algorithms(Continues)
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Week 5:

CSE115: Selection Structures (Continues), Repetition and Loop Statements
CSE173: Quiz 1 + Set Theory: Types of Sets, Operations, Properties
CSE231: Multiplexers, Flip-Flops
CSE215: Object Oriented Thinking, OOP Concepts (contd.)
CSE225: Programming with Recursion, Binary Search Tree
CSE325: Datatypes,
CSE331: Programming Languages for Interfacing,
CSE332: computer organization: roles of processors, main memory,
CSE373: Sorting, Sorting (Continues)
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Week 6:

CSE115: Repetition and Loop Statements (Continues), Repetition and Loop Statements
CSE173: Relations and Functions: Types of Relations, Properties, Composition, Types of Functions
CSE231: Sequential Circuit Design, Counters
CSE215: Inheritance, Polymorphism
CSE225: Binary Search Tree(Continued), ***Midterm Exam****
CSE325: Statement-Level Control Structures,
CSE331: Pseudo Code,
CSE332: design Instruction set architecture and subsystems,
CSE373: Sorting (Continues), Sorting (Continues)
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Week 7:

CSE115: Pointers and Modular Programming, Pointers and Modular Programming
CSE173: Graphs and Trees: Basics, Properties, Graphs and Trees: Basics, Properties
CSE231: Shift Registers, RAM and ROM
CSE215: Reserve class for reviewing, Midterm (Ch 1 -11)
CSE225: Binary Search Tree(Continued), Heaps
CSE325: Subprograms,
CSE331: Assembly Languages,

CSE373: Greedy Algorithms, Greedy Algorithms (Continues)

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Week 8:

CSE115: Mid-term Exam, Arrays
CSE173: Midterm Exam,
CSE231: Programmable Logic Devices, State Machines
CSE215: Abstract Classes, Interfaces
CSE225: Priority Queue, Huffman Coding, Graphs
CSE325: Abstract Data Types and Encapsulation Constructs,
CSE331: Instruction Sets,
CSE332: Midterm exam,
CSE373: Greedy Algorithms, Mid-term Exam

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Week 9:

CSE115: Arrays (Continues), Strings
CSE173: Recurrence Relations: Definition, Solving Using Forward/Backward Substitution
CSE231: Verilog HDL Introduction, Verilog HDL for Combinational Circuits
CSE215: Use of Abstract class and Interfaces, Exception Handling
CSE225: Graphs, BFS, DFS, Graph(Continued)
CSE325: Support for Object-Oriented Programming,
CSE331: IO controller programming,
CSE373: Dynamic Programming, Dynamic Programming (Continues)

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Week 10:

CSE115: Strings (Continues), Structures and Union Types
CSE173: Number Theory: Congruences, Modular Arithmetic, GCD, LCM, Euclidean Algorithm
CSE231: Verilog HDL for Sequential Circuits, Testbenches
CSE215: Exception Handling (Contd.), Text I/O and Binary I/O
CSE225: Sorting Algorithms, Sorting Algorithms
CSE325: Concurrency,
CSE331: Interrupt,
CSE373: Dynamic Programming (Continues), Dynamic Programming (Continues)

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Week 11:

CSE115: Structures and Union Types (Continues), Recursion
CSE173: Quiz 2 + Mathematical Induction: Basics, Proof of Series, Structural Induction

CSE231: Midterm 1, Midterm 2
CSE215: Generics, Multithreading and Parallel Programming
CSE225: Hashing, Hashing (Continued)
CSE325: Exception and Event Handling,
CSE331: Data conversion algorithm,
CSE373: Graph Algorithms, Graph Algorithms (Continues)
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Week 12:

CSE115: Recursion (Continues), Review and other materials
CSE173: Summation Notation and Basic Counting Techniques: Permutations, Combinations, Pigeonhole P
CSE231: Review, Final Exam
CSE215: (Open Topics), Reserve class for reviewing
CSE225: Reserved, Project Presentation+ Viva
CSE325: Functional and Logic Programming Languages,
CSE331: Brief Introduction to Microcontroller 8051,
CSE373: Graph Algorithms (Continues), Graph Algorithms (Continues)
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Week 13:

CSE231: Final Exam
CSE173: Quiz 3 + Advanced Counting Techniques: Inclusion-Exclusion, Binomial Theorem
CSE225: Midterm Exam,
CSE331: Memory Organization of Microcontroller 8051,
CSE331: Assembly in Microcontroller 8051,
CSE373: Graph Algorithms (Continues), Graph Algorithms (Continues)
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Week 14:

CSE331: Serial Communication,
CSE173: Final Exam,
CSE331: Port Programming in Microcontroller 8051,
CSE373: String Processing Algorithms, String Processing Algorithms (Continues)
CSE373: Review,
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