

Syllabus (core modules)

Algorithms & DSA: arrays → graphs, complexity, patterns (two-pointers, greedy, DP mindset)

C Programming: syntax & flow, pointers, arrays/strings, functions, memory model, basic file I/O

OOP & Design: classes/objects, interfaces, SOLID taste, testing

Discrete Math Habits: logic, sets, proofs-lite, invariants

Systems Taste: OS & networks intuition, processes, memory, sockets (intro)

Tools: Git, Linux, debugging, code review etiquette

Capstone: mini-project with review + presentation

How ByteBoost teaches

✓ University-style problem sets

✓ Weekly feedback & accountability

✓ Simple rubrics & mock assessments

✓ 1:1 mentor check-ins

✓ Discord for peer help & wins