

Programming Fundamentals - Course Study Sheet

Course: Programming Fundamentals Cluster: Computing and Data

Introduces variables, control flow, functions, data collections, debugging, and decomposition.

Five-module course map

Module	Active evidence to produce
1. values and types	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
2. conditionals and loops	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
3. functions	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
4. collections	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
5. testing and debugging	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.

Reliable learning method

clarify input and output, decompose the task, write a small executable step, test edge cases, and refactor

Representative application

Build a program that summarizes a data list, validates input, and reports how each edge case was handled.

Weekly study cycle

1. Preview the objective and write two questions. 2. Attend or engage and capture decisions rather than every sentence. 3. Reconstruct the main idea within 24 hours. 4. Complete independent practice. 5. Analyze the first unsupported move on each error. 6. Use feedback. 7. Schedule a delayed mixed recheck.

Self-check before moving on

Can you explain the idea without notes, complete a fresh task, detect a near-miss, verify the result, and state a limitation? Watch especially for: writing the entire program before testing or tracing syntax while ignoring incorrect logic.

What to save

a tested program with examples, edge cases, readable structure, and reflection

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