

Python Programming - Course Study Sheet

Course: Python Programming Cluster: Computing and Data

Applies Python syntax, functions, collections, files, modules, and object-oriented ideas to problems.

Five-module course map

Module	Active evidence to produce
1. Python data types	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
2. control flow	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
3. functions and scope	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
4. files and exceptions	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
5. classes and modules	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.

Reliable learning method

write a minimal example, inspect state, add one behavior at a time, test normal and exceptional cases, and document choices

Representative application

Read a structured text file, validate records, calculate summaries, and handle malformed input without losing valid data.

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: depending on copied snippets without tracing variables, mutability, scope, exceptions, or return values.

What to save

a documented Python application with tests, sample data, and a reproducible run guide

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