

Introductory Statistics - Course Study Sheet

Course: Introductory Statistics Cluster: Mathematics and Quantitative Methods

Builds reasoning from data through study design, distributions, probability, estimation, and significance testing.

Five-module course map

Module	Active evidence to produce
1. data and distributions	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
2. sampling and experiments	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
3. probability models	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
4. confidence intervals	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
5. hypothesis tests	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.

Reliable learning method

identify population, variables, and design; visualize data; select a method; check conditions; calculate; and interpret uncertainty

Representative application

Evaluate a campus survey by separating sampling quality, association, uncertainty, and limits on causal claims.

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: treating a p-value as the probability a claim is true or assuming random sampling proves causation.

What to save

a statistical report with design, analysis, uncertainty, conclusion, and limitations

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