

Business Statistics - Course Study Sheet

Course: Business Statistics Cluster: Mathematics and Quantitative Methods

Applies descriptive statistics, probability, inference, regression, and forecasting to organizational decisions.

Five-module course map

Module	Active evidence to produce
1. descriptive analytics	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
2. probability and risk	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
3. sampling and estimation	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
4. regression	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
5. forecasting and quality	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.

Reliable learning method

state the decision, inspect data provenance, choose the statistic or model, validate assumptions, quantify uncertainty, and communicate action

Representative application

Compare two forecasting approaches for demand and explain error measures, uncertainty, and operational consequences.

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: choosing the model with the best in-sample fit without validation, business context, or data-quality checks.

What to save

a decision memo supported by reproducible analysis, visual evidence, and risk limits

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