

MATH 427. STATISTICAL QUALITY CONTROL.

Credits: 3

Offered by: Mathematics and Statistics (Faculty of Science)

Terms offered: Fall 2025

[View offerings for Fall 2025 in Visual Schedule Builder.](#)

Description

Introduction to quality management; variability and productivity.
Quality measurement: capability analysis, gauge capability studies.
Process control: control charts for variables and attributes. Process improvement: factorial designs, fractional replications, response surface methodology, Taguchi methods. Acceptance sampling: operating characteristic curves; single, multiple and sequential acceptance sampling plans for variables and attributes.

- Prerequisites: MATH 203 or equivalent, and MATH 204 or MATH 324.

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