

# CHEE 491. INSTRUMENTATION AND MEASUREMENT 2.

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Credits: 4

Offered by: Chemical Engineering (Faculty of Engineering)

Terms offered: Winter 2026

[View offerings for Winter 2026 in Visual Schedule Builder.](#)

## Description

Measurement devices, valves, controllers and actuators; common failure modes and error sources; static and dynamic responses; first and higher-order instrument responses; calibration and biases; frequency response analysis; chemical analysis; elements of spectroscopy; optical measurements; integration projects for typical instruments used in chemical engineering.

- Corequisite(s): CHEE 423, CHEE 455
- Restriction: Not open to students who have taken CHEE 393
- (3-3-6)
- Prerequisite(s): CHEE 231, CHEE 455

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