

BIEN 350. BIOSIGNALS, SYSTEMS AND CONTROL.

Credits: 4

Offered by: Bioengineering (Faculty of Engineering)

Terms offered: Fall 2025

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Description

Discrete- and continuous-time signals; basic system properties.

Linear time-invariant systems; convolution. Frequency domain analysis; filtering; sampling. Laplace and Fourier transforms; transfer functions; poles and zeros; transient and steady state response. Z-transforms. Dynamic behaviour and PID control of first- and second-order processes. Stability. Applications to biological systems, such as central nervous, cognitive, and motor systems.

- (3-3-6)
- Prerequisite(s): MATH 263 or permission of instructor.

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