

# BMDE 509. QUANTITATIVE ANALYSIS AND MODELLING OF CELLULAR PROCESSES.

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Credits: 3

Offered by: Biomedical Engineering (Faculty of Engineering)

This course is not offered this catalogue year.

## Description

Quantitative models for key intra- and inter-cellular processes. Key mathematical concepts: stochastic differential equations, Markov models, Gibbs free energy, and Fick's Law. Biological systems: neurons, networks of bacteria, and genetic regulatory systems. Emphasis on the design of quantitative experiments and data analysis.

- (3-0-6)
- Pre- or co-requisites: MATH 222, MATH 223, BMDE 519
- Restriction: Not open to students who have taken PHGY 209 or PHGY 311

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