

PHYS 413. PHYSICAL BASIS OF PHYSIOLOGY.

Credits: 3

Offered by: Physics (Faculty of Science)

This course is not offered this catalogue year.

Description

Analytic and computer simulation techniques are used to examine the role of nonlinearities and time delays in determining the dynamic behaviour of physiological control systems and their relation to normal and pathophysiological states. Examples drawn from the control of respiration, cellular proliferation and differentiation, biochemical feedback networks, thermoregulatory mechanisms, and neural feedback.

- Fall
- 3 hours lectures
- Prerequisite: MATH 315, or MATH 325, and permission of the instructor
- Intended for Major or Honours students in Physics, Physiology, Physiology and Physics, or Mathematics and others with permission

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