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[BME 479 Biotransport](#)

Emphases are given with regard to fundamental principles, quantitative approaches, as well as applications of these principles and techniques. Pre-requisites Calculus, ordinary and partial differential equations, and fluid mechanics. Course Objectives Understanding biotransport principles and mastering of the basic quantitative approaches in

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For each problem, conservation principles are applied to a differential control volume. Steady-state solutions lead to ordinary differential equations or systems of ordinary differential equations. Unsteady-state applications lead to more complex partial differential equations that are first order in time and second order in position.

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Introduction to Biotransport Principles is a concise text covering the fundamentals of biotransport, including biological applications of: fluid, heat, and mass transport.

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