

BMEG 410-510 BIOMEDICAL EQUIPMENT, PHYSIOLOGY, AND ANATOMY

***We are only considering applications from current SBME Sessional Lecturers for this course. ***

- Lectures will be held weekly on Tuesday and Thursday; and discussion will be held weekly on Thursday.
- **Timeline:** 2025/2026 WINTER TERM 1 (September to December, 2025)
- **Lecture:** 2 lectures (90 minutes each)
- **Discussion:** 1 tutorial (120 minutes each)

COURSE DESCRIPTION

Physical principles of ultrasound, magnetic resonance, computed tomography, X-ray projection imaging and molecular imaging in medical imaging for diagnostics, therapeutics and interventions.

Anatomical structures and physiological principles of major body systems. Functional connections to operation of diagnostic and therapeutic equipment. Exploration of recent advances.

To apply, [email SBME HR](#).

BMEG 371 TRANSPORT PHENOMENA WITHIN CELLS AND TISSUES

***We are only considering applications from current SBME Sessional Lecturers for this course. ***

- Lectures will be held weekly on Monday, Wednesday and Friday from 4-5pm
- **Timeline:** 2025/2026 WINTER TERM 1 (September to December, 2025)
- **Lecture:** 3 hours per week (in-person).

COURSE DESCRIPTION

Fluid flow and mass transport analysis within healthy and diseased cells and tissues using mathematics. Drug delivery and tissue engineering.

To apply, [email SBME HR](#).