

COMP 514. APPLIED ROBOTICS.

Credits: 4

Offered by: Computer Science (Faculty of Science)

Terms offered: Winter 2026

View offerings for Winter 2026 in Visual Schedule Builder.

Description

The approach and the challenges in the key components of manipulators and locomotors: representations, kinematics, dynamics, rigid-body chains, redundant systems, under-actuated systems, control, planning, and perception. Practical aspects of robotics: collisions, integrating sensory feedback, and real-time software development.

- Prerequisites: MATH 223, MATH 323, COMP 206, and COMP 250, or equivalents.
- Restrictions: Not open to students who have taken COMP 597 when the topic was "Applied Robotics".
- Students should be comfortable with C++ (such as from COMP 322) and a Unix-like programming environment.

Most students use Visual Schedule Builder (VSB) to organize their schedules. VSB helps you plan class schedules, travel time, and more.

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