

# PHYS 340. MAJORS ELECTRICITY AND MAGNETISM.

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Credits: 3

Offered by: Physics (Faculty of Science)

Terms offered: Fall 2025

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## Description

The electrostatic field and scalar potential. Dielectric properties of matter. Energy in the electrostatic field. Methods for solving problems in electrostatics. The magnetic field. Induction and inductance. Energy in the magnetic field. Magnetic properties of matter. Maxwell's equations. The dipole approximation.

- Fall
- 3 hours lectures
- Prerequisites: CEGEP physics or PHYS 142, MATH 222
- Corequisite: MATH 314
- Restriction: Not open to students who have passed PHYS 242 or PHYS 350

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