

PHYS 342. MAJORS ELECTROMAGNETIC WAVES.

Credits: 3

Offered by: Physics (Faculty of Science)

Terms offered: Winter 2026

[View offerings for Winter 2026 in Visual Schedule Builder.](#)

Description

Maxwell's equations. The wave equation. The electromagnetic wave, reflection, refraction, polarization. Guided waves. Transmission lines and wave guides. Vector potential. Radiation. The elemental dipole; the half-wave dipole; vertical dipole; folded dipoles; Yagi antennas. Accelerating charged particles.

- Restriction: Not open to students having passed ECSE 357
- Winter
- 3 hours lectures
- Prerequisites: PHYS 340 or PHYS 242, Mathematics MATH 314, MATH 315

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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