

The Department of Electronics is seeking qualified contract instructors for the following courses:

Winter Term 2012

ELEC 4504 [0.5 CREDIT]

Avionics Systems

Electromagnetic spectrum. Air data sensing, display. Communications systems. Navigation and landing systems; ground-based, inertial and satellite systems. Airborne radar. Guidance, control for aircraft, autopilots; stability augmentation; active control; sensor requirements; display techniques. Aircraft power systems. Safety systems. Vehicle/systems integration, certification. Precludes additional credit for [AERO 4504](#).

Prerequisite: fourth-year status in Engineering. Not open to students in Electrical Engineering, Computer Systems Engineering, Aerospace Stream C Engineering or Engineering Physics. Lecture three hours a week.

ELEC 3909 [0.5 CREDIT]

Electromagnetic Waves

Maxwell's equations and EM wave solutions. Polarization. Poynting vector. EM waves in dielectrics and conductors; skin depth. Reflection and refraction. Standing waves. Fresnel relations, Brewster angle. Transmission lines. Line termination, basic impedance matching and transformation. Smith charts. Introduction to guided waves; slab waveguide. Precludes additional credit for [PHYS 3308](#).

Prerequisite: [ELEC 3105](#) or permission of the Department.

Candidates must have a degree in a relevant field of engineering, P.Eng. status in Canada, and preferably a graduate degree and/or work experience in the subject area of the course. Candidates must have excellent communication and presentation skills; teaching experience would be an asset. Applications will be accepted until May 23, 2011. Applications with a covering letter and curriculum vitae including educational background, employment history, and related work experience, should be sent to:

Professor Calvin Plett, Chair
Department of Electronics
Room 5170 Mackenzie Engineering Building
Carleton University

1125 Colonel By Drive
Ottawa, ON
K1S 5B6
Telephone (613) 520-5577
Fax (613) 520-5708

Alternatively, properly packaged applications can be emailed to: cp@doe.carleton.ca

Carleton University is strongly committed to fostering diversity within its community as a source of excellence, cultural enrichment and social strength. We welcome those who would contribute to the further diversification of our University including but not limited to women, persons with disabilities, visible minorities, Aboriginal peoples, and persons of any sexual orientation or gender identity.