Department of Electronics, Contract Instructor Positions  
Summer 2021 (May-Aug 2021)

The Department is seeking qualified contract instructors with strong communication and teaching skills established through successful teaching of engineering courses at the university level. Candidates should have current expertise in the subject area of the course, which might be attained through industrial experience or research in academia or government labs. Candidates must have a degree in a relevant field of engineering. To satisfy program accreditation requirements instructors for all undergraduate courses must have current P.Eng. status in Canada.

Applications will be accepted until March 15, 2021. Applications with a covering letter and curriculum vitae including educational background, employment history, and related work experience, should be sent via email to chair@doe.carleton.ca.

The University may require that all or part of these courses be delivered remotely, including online.

Carleton University is 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.

Contract instructor hiring is governed by the CUPE 4600 Unit 2 collective agreement (https://carleton.ca/hr/labour-relations/academic-staff-agreements/).

**ELEC 2501 [0.5 credit]**
**Circuits and Signals**

Lectures three hours a week, laboratory and problem analysis three hours a week.

**ELEC 2507 [0.5 credit]**
**Electronics I**
Qualitative semiconductor physics, leading to the diode equation. Diode applications. Operational amplifiers and their application in feedback configurations including active filters. Introduction to bipolar transistors and MOSFETs, analysis of biasing circuits. Transistor applications including small signal amplifiers.

Lectures three hours a week, laboratory and problem analysis three hours a week.

**SYSC 5902 [0.5 credit]**
**Research Methods for Engineers**
Topics required to perform engineering research including literature surveys, identifying issues, objectives, and methodology. Technical writing, documenting and presenting engineering ideas and a review of statistics, simulation, optimization and data analysis.