

ELE846 – Power Systems Control

- **Course Outline**

<http://www.ee.ryerson.ca/undergraduate/dcd/ele846.html>

- **Key Knowledge to Be Acquired**

Symmetrical components to study unsymmetrical faults, single-line-to-ground fault, line-to-line fault, double-to-ground fault, protection schemes , Time Current Curves of relays, protection coordination, Transient stability study and optimum power flow.

- **Key Skills to Be Mastered**

Use of ETAP (Electrical Transient Analyzer Program), which power industry use for analysis and design of power system. Students are given individual projects on short circuit study, protection relay coordination and stability.

- **Potential Careers**

Electrical Engineering in power industry, manufacturing and mining.

- **Potential Employers**

Hydro One, OPG (Ontario Power Generation), Toronto Hydro, Ontario Power Authority, consulting companies, mining , all municipalities' Hydro, new Green energy (Solar power and Wind turbine) industries.

- **Graduate Studies**

Ryerson, Toronto, Waterloo, Western, McMaster etc., have strong graduate programs in Power Systems and power electronics.