



APSC Graduate Courses 2020-21

APSC 801 Master of Engineering Foundations

Course Administrator - Dr. Paul Hungler (2020), Non-Credit, Online

An introduction to the Master of Engineering (MEng) graduate studies program at Queen's University. The course provides students with essential administrative information, an introduction to information literacy within the Faculty of Engineering and Applied Science, as well as an overview of the various support services on campus. Additionally, the course contains several modules on professional and career skills. This non-credit course is comprised of a number of individual modules.

APSC 896 Engineering Leadership

Instructor - Dr. Paul Hungler (Fall 2020)

The course is designed to develop a range of skills essential for engineering professional practice in both the public and private sectors with a focus on Engineering Leadership and Innovation. Topics will include: leadership theories, ethical leadership, leading innovation, teaming and factors affecting developing an innovation strategy. Students will explore their own leadership and management abilities and develop their competencies in areas such as managing conflict, optimize team dynamics and developing others.

APSC 810 Teaching and Learning in Engineering

Instructors - Dr. Brian Frank, Dr. Paul Hungler, Dr. Sue Fostaty Young (Winter 2021)

This course is an introduction to learning principles and effective teaching in engineering, intended to prepare for roles like teaching assistant, university course instruction, or training in engineering industry. The course includes relevant theories of teaching and learning with practical elements like classroom management, designing sessions and assessments, signature engineering teaching approaches, and using digital pedagogies.

APSC 888 Engineering Innovation and Entrepreneurship

Instructor - Dr. Jim McLellan (Winter 2021)

This course will help learners from across engineering develop an entrepreneurial mindset capable of turning problems into opportunities. Learners will investigate the relationships between innovation and industrial dynamics, and seek to understand the fundamental forces that drive the science and technology industries' evolution and industry life cycles.

APSC 877 Engineering Project Management

Instructor – Darya Duma, PMP (Summer 2021), Online

The course will examine the essential skills and knowledge required for effective engineering project management. The foundational principles of project management including integration, scope, cost, time, human resources, stakeholders and procurement are examined. The course will be delivered on-line.