NEW COURSE OFFERING
Possible Technical Elective

INTRODUCTION TO RECYCLING

COURSE DESCRIPTION
The purpose of this course is to introduce current technologies, procedures, and philosophies in the fields of municipal and industrial recycling and waste management. The course will teach some aspects of elementary chemistry and physics in a very topical manner, and will focus on the financial, ecological, technological and political aspects of recycling.

Introduction to Recycling will cover topics ranging from the history of recycling to the study of Life Cycle Analysis and the introduction of Cradle to Cradle design. Topics of special interest will include the chemical, environmental, and logistical hurdles that often prevent products from being recycled. Finally, the course will introduce recent innovations in the field of recycling and will address the need for innovative design and manufacturing in the future.

COURSE OUTLINE
Topics covered in the course include:
- Recycling Programs
- Industrial Recycling
- Municipal Waste Recycling
- Paper, Glass, and Plastic Recycling
- Aluminium, Iron and Steel Recycling
- Organic Waste Recycling
- Electronics Recycling
- Hazardous Waste Recycling
- Economic Factors of Recycling
- Laws, Policies and Regulations
- Innovations in Recycling

ABOUT THE COURSE
Introduction to Recycling is a new multidisciplinary service course being offered by the Mining Department of Queen’s University. The course is open to all disciplines within engineering as well all faculties within the university. The course is being offered during the Winter Term in Slot 4 under the course code MINE 301. The course weighting will be 36 AU and is a possible technical elective for most disciplines. For information on eligibility, please see your Academic Advisor.

FEATURES OF THE COURSE
Introduction to Recycling will include hands on activities structured to simulate projects encountered in the workplace. Activities will be done in groups and will introduce students to the environmental, business, and engineering aspects of recycling.

Field trips will be an important aspect of the course. Students will have the opportunity to tour recycling facilities in order to gain first hand knowledge of the recycling process.