



McGill

Department of Civil Engineering

CIVE 527 – Renovation & Preservation: Infrastructure
Fall 2012

Instructor:	Prof. Andrew J. Boyd E-mail: andrew.boyd@mcgill.ca
Lectures:	M,W 10:05 – 11:25 am [ENGMD 276] T 10:05 – 11:25 am [ENGMD 276] - Dec 4 only
Tutorial:	T 8:35 – 9:55 am [Trottier 1100]
Office Hours:	M,W 9:00 am - 10:00 am [MD 482] or by appointment
Course Description:	Maintenance, rehabilitation, renovation and preservation of infrastructure; infrastructure degradation mechanisms; mechanical, chemical and biological degradation; corrosion of steel; condition surveys and evaluation of buildings and bridges; repair and preservation materials, techniques and strategies; codes and guidelines; case studies
Required Text:	There is no required text for this course. Lectures and other handouts will be made available via website posting
Grading:	Project: 20% Test 1: 40% Test 2: 40%
Course Policies:	Make-up exams will be granted upon presentation of a legitimate and relevant physician's certification. Other requests will be considered IF requested prior to the scheduled week of the exam.
Attendance Policy:	Students are responsible for all information covered in class or tutorial sessions, regardless of whether it appears in the lecture notes or other handouts. Attendance and participation in tutorial sessions is mandatory.

Tentative List of Topics to be Covered

Condition Assessments & Inspections

Properties of Construction Materials

Investigative Techniques

Non destructive

Destructive

Load Testing

Structural Health Monitoring

Trenchless Technology

Deterioration mechanisms

Repair Strategies

Service Life Prediction

Codes and Guidelines

Case Studies

McGill Policy Statements

McGill University values academic integrity. Therefore, all students must understand the meaning and consequences of cheating, plagiarism and other academic offences under the Code of Student Conduct and Disciplinary Procedures.

See www.mcgill.ca/students/srr/honest/ for more information

In accord with McGill University's Charter of Students' Rights, students in this course have the right to submit in English or in French any written work that is to be graded.