

**The University of Western Ontario
Department of Civil and Environmental Engineering**

Course: **Special Topics in Water Resources Management**
Course number: **CEE 9564**
Instructor: **Professor Slobodan P. Simonovic**
Room SEB 3015
Phone (519) 661-4075
E-mail simonovic@uwo.ca
Time: **Thursday 8:30-10:30**
Room: **SEB2094**

Course Objectives

This course is designed to provide students with: (a) the application of systems approach to the solution of complex water resources management problems; (b) the knowledge of simulation, optimization and the multi-objective analysis. The course is aimed at graduate students preparing to work in water resources engineering field.

During the last four decades, application of systems approach to water resources management problems has expanded from simple simulation and single objective optimization, to the introduction of system dynamics simulation, evolutionary optimization and multi-objective analysis and sophisticated evaluation methods based on the consideration of risk and uncertainty.

Course Requirements

It is expected that students attending this course have basic exposure to hydrology, hydraulics, water resources management and systems analysis. Those without this background can benefit from attending the lectures of CEE3361 Water Resources Management course. The students should learn in this course to formulate the problem using tools presented in the class, solve the problem, make the presentation and prepare a report.

Required Course Textbook

Simonovic, S.P. *Managing water resources: Methods and tools for a systems approach*, Earthscan, London, Sterling VA, 2009.

Assessment of Students

Discussions, participation	5%
Assignments (between 5 and 10)	35%
Final exam	60%