

## Winter 2012, CS490, Information Systems Management

last updated: 2012.01.16

### Course Website

<http://www.student.cs.uwaterloo.ca/~cs490/>

### Lectures

Tuesdays & Thursdays 11:30-12:50 MC4064

### Instructor

Dave Tompkins [dtompkins @at@ uwaterloo.ca]

Office: DC 3114, Phone: x31359

Office Hours: Mondays 2:30 – 3:30 or by appointment

### Teaching Assistant

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### Course Description (Official Calendar description)

The integration of business and technical considerations in the design, implementation and management of information systems. Topics include: IS planning and development; business, management, executive, and strategic information systems, including case studies of selected large- scale systems; decision support systems; end-user training and development; systems security, disaster planning and recovery. Practical examples of information systems in industry.

*Prereq: CS 350 or SE 350; Computer Science students only*

*Antirequisites: AFM/ACC 241, CS 330, MSCI 441, CS480*

### Course Objectives

This course is intended to emphasize the integration of business and technical considerations in the design, implementation and management of information systems. Students will be introduced to various business and management information systems, and the environment in which they function. The students will learn the theory and practical application of these systems, as well as their implementation in the business community.

### Textbook

McNurlin, Barbara C. and Ralph H. Sprague, Jr. (2009).

**Information Systems Management in Practice,**  
Eighth Edition, Pearson Prentice Hall.

Library Copy: uwd 1577 (3 hr)

## Topic Overview (Approximate)

- **Information Systems (1.5 hours)**  
Introduction to information systems: the technologies; the organization; management issues in information systems development.
- **Business Information Systems (9 hours)**  
Overview of concepts, technical considerations and applications of various business information systems, such as banking, financial, insurance, marketing, manufacturing, production, human resource, and office information systems. This may include local business and industrial systems.
- **Information Systems in Management (9 hours)**  
Concepts, technical issues and applications of management and executive information systems, decision support systems, expert systems in business, and various strategic information systems.
- **Managing Information Systems (7.5 hours)**  
Structured information systems planning. Acquiring information system resources. Managing data resources. Information systems operations. Telecommunications and distributed systems.
- **Information Systems Development (6 hours)**  
Defining system requirements. Information system design and implementation. Managing systems development projects. End user development.
- **Other Issues in Information Systems (3 hours)**  
Education of executives and users. Computer security. Disaster planning and recovery.

## Evaluation

5%	In-class Work / Participation
25%	Midterm 1
25%	Midterm 2
20%	Assignment
25%	Project

## Policies

Late work will not be accepted. Unauthorized missed assignment material, projects and examinations will receive a grade of zero. Group work is acceptable only for group assignments and projects; all students are expected to contribute equally. Assignments are to be submitted in-class and over email (see assignment instructions for more details). Marked work will be returned in-class. See the website for any additional policies.

**Academic Integrity:** In order to maintain a culture of academic integrity, members of the University of Waterloo community are expected to promote honesty, trust, fairness, respect and responsibility.

[Check [www.uwaterloo.ca/academicintegrity/](http://www.uwaterloo.ca/academicintegrity/) for more information.]

**Grievance:** A student who believes that a decision affecting some aspect of his/her university life has been unfair or unreasonable may have grounds for initiating a grievance. Read Policy 70, Student Petitions and Grievances, Section 4, [www.adm.uwaterloo.ca/infosec/Policies/policy70.htm](http://www.adm.uwaterloo.ca/infosec/Policies/policy70.htm). When in doubt please be certain to contact the department's administrative assistant who will provide further assistance.

**Discipline:** A student is expected to know what constitutes academic integrity [check [www.uwaterloo.ca/academicintegrity/](http://www.uwaterloo.ca/academicintegrity/)] to avoid committing an academic offence, and to take responsibility for his/her actions. A student who is unsure whether an action constitutes an offence, or who needs help in learning how to avoid offences (e.g., plagiarism, cheating) or about 'rules' for group work/collaboration should seek guidance from the course instructor, academic advisor, or the undergraduate Associate Dean. For information on categories of offences and types of penalties, students should refer to Policy 71, Student Discipline, [www.adm.uwaterloo.ca/infosec/Policies/policy71.htm](http://www.adm.uwaterloo.ca/infosec/Policies/policy71.htm). For typical penalties check Guidelines for the Assessment of Penalties, [www.adm.uwaterloo.ca/infosec/guidelines/penaltyguidelines.htm](http://www.adm.uwaterloo.ca/infosec/guidelines/penaltyguidelines.htm).

**Appeals:** A decision made or penalty imposed under Policy 70 (Student Petitions and Grievances) (other than a petition) or Policy 71 (Student Discipline) may be appealed if there is a ground. A student who believes he/she has a ground for an appeal should refer to Policy 72 (Student Appeals) [www.adm.uwaterloo.ca/infosec/Policies/policy72.htm](http://www.adm.uwaterloo.ca/infosec/Policies/policy72.htm).

**Note for Students with Disabilities:** The Office for persons with Disabilities (OPD), located in Needles Hall, Room 1132, collaborates with all academic departments to arrange appropriate accommodations for students with disabilities without compromising the academic integrity of the curriculum. If you require academic accommodations to lessen the impact of your disability, please register with the OPD at the beginning of each academic term.

**Accommodation Due to Illness:**

[http://www.registrar.uwaterloo.ca/students/accom\\_illness.html](http://www.registrar.uwaterloo.ca/students/accom_illness.html)