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**Instructor:** Zahoor A. Khan, PhD

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**Phone:** 902-494-1876

**Office:** SB127

**Office Hours:** Contact via email

**Web page:** [www.cs.dal.ca/~zkhan](http://www.cs.dal.ca/~zkhan)

**Day, Time, and Location of Classes, Labs, and/or Tutorials:** TR (1pm – 215pm), LA282

**Course Web Page:** [www.cs.dal.ca/~zkhan/4436](http://www.cs.dal.ca/~zkhan/4436)

**Course Prerequisite(s):** CISY3328 – Computer Organization

**Credit Hours:** 3

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### **Course Description**

This course is an introduction to data communications and computer network systems from a business application perspective. Topics covered include fundamental concepts of data communications, types of communication links, wireless networks, TCP/IP networks, telecommunication and wide area networks. Security issues are also covered. At the completion of this course, students should be able to understand data communication and network requirements for business.

### **Course Objectives**

After completing this course, if you have attended class regularly, read the assigned material, and applied the teaching presented in the course, you will be able to

- Describe the basic concepts of cloud computing, network standards, network security, and network design
- Explain the basic technical issues and standards underlying the integration of business processes
- Familiar with the techniques used for designing, implementing, managing and communicating organizational and inter-organizational data communications functions
- Demonstrate the common data communication architectures
- Describe the methods of protecting the business networks

### **Required and Recommended Texts and/or Materials**

**Required Text:** Business Data networks and Telecommunications (9e) by R. Panko, Prentice Hall

**Handouts:** Additional handouts may be provided by the instructor.

## E-mail

I use the e-mail address listed on Banner to contact students. It is your responsibility to make sure you have registered a working e-mail address with Banner (this is done via <http://activate.smu.ca>) and that your e-mail account is working properly.

## Evaluation

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### Grading Scheme

| Material             | Weighting  | Provisional Posting / Exam/ Due Date                            |
|----------------------|------------|---|
| Assignment 1         | 5%         | Posted on Thurs Jan 23<br>Due Thurs Jan 30 (Before Lecture)     |
| Assignment 2         | 5%         | Posted on Thurs Jan 30<br>Due Thurs Feb 6 (Before Lecture)      |
| Assignment 3         | 5%         | Posted on Thurs Feb 6<br>Due Thurs Feb 13 (Before Lecture)      |
| Project              | 25%        | Project abstract due Thurs Feb 6<br>Formal report due Fri Apr 4 |
| Project Presentation | 10%        | Week 13<br>Slides due Mar 27                                    |
| <b>MIDTERM</b>       | <b>30%</b> | <b>Exam on Thu Mar 13</b>                                       |
| Class Participation  | 10%        | All classes/lectures, Pop Quizzes                               |
| <b>In class Test</b> | <b>10%</b> | <b>Test on Thu April 3</b>                                      |

In order to pass the course, you must receive:

- a) at least 25 out of 50 marks on the final examination; and
- b) a combined mark of at least 50 out of 100 marks on the course

Final grades for the course will be determined as follows:

|                           |                            |                            |                       |
|---------------------------|----------------------------|----------------------------|-----------------------|
| 0.00 to 49.99 marks is F  | 60.00 to 62.99 marks is C- | 70.00 to 72.99 marks is B- | 80.00 to 84.99 is A-  |
| 50.00 to 59.99 marks is D | 63.00 to 66.99 marks is C  | 73.00 to 76.99 marks is B  | 85.00 to 89.99 is A   |
|                           | 67.00 to 69.99 marks is C+ | 77.00 to 79.99 marks is B+ | 90.00 to 100.00 is A+ |

### Class Conduct

It is expected that students observe common courtesy both with regard to their professor and to their fellow students. Professors have the right to dismiss individuals from class for disruptive behaviors including: late arrivals, excessive noise or conversations not relating to class, sleeping, or inattention. Common courtesy includes punctual arrival to lectures, not leaving a class until its conclusion without prior consent, and not engaging in private conversations during class. While the reading material and in-class assignments cover course material comprehensively, the examples and clarification given by professors in class are usually necessary for complete understanding.

### Attendance Policy

Attendance in class is mandatory, unless you have a reason to miss class that is acceptable to the instructor. Students are responsible for all material and projects given in class whether they are

present or not. It is the responsibility of the student to obtain handouts, assignments, projects, etc. for any missed class from a fellow student. Only medical notes from a medical Doctor will be accepted as an excuse for students missing exams/project presentations. Any uncoordinated, unexcused missed exam will result in a score of 0 for that exam.

### **Assessment and Exam Policies**

The in-class exams (Midterm, Quizzes, etc.) will be administered during regular class time and in regular classroom. You should be prepared to show your Saint Mary's student identification card, if requested by your instructor before the quiz/test/exam.

## **Academic Policies**

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### **Academic Integrity Policy and Student Responsibility**

As a Saint Mary's University student, you are responsible for understanding and avoiding academic offences, including plagiarism, cheating, and falsification. Working with another person (or in a group) when individual work is required for a grade is considered a form of academic dishonesty.

Plagiarism is when you present someone else's words, ideas or techniques as your own. When you want to refer to someone else's work, you must reference it either by direct quotation or paraphrase (expressing the idea in your own words), which must be acknowledged using correct citation. When you are in doubt about what, when, and how to cite your information sources, consult with me, or the Writing Centre, before submitting your work. Academic dishonesty is a serious offense, so be sure you understand how to correctly acknowledge and use sources when preparing your work.

Plagiarism applies to all forms of information or ideas that belong to someone else (e.g., literary works, computer programs, mathematical solutions, scientific experiments, pictures, website or data).

Furthermore, submitting the same piece of work (even if it's your own) for a grade or credit in more than one course is usually not permitted. The approval of the course instructors involved must be obtained before submitting the assignment.

**If you are found in violation of this academic honesty policy, your work is subject to a grade of zero, and you will be reported to the Registrar. If the Registrar finds this is a second offence, you will be referred to the university's Academic Honesty Committee and subject to disciplinary action.**

Please read the entire "Academic Integrity" section (Academic Regulation 19) of Saint Mary's Academic Calendar for a complete description of each offence, noting especially the examples of plagiarism and penalties.

### **Syllabus Changes**

The syllabus and/or schedule may be modified by the instructor at any time, if it is necessary to do so. Notification of such changes together with the reason for the change will be made in class or by other means including e-mails to students. It is the responsibility of the student to keep track of changes by attending class and checking emails.

## **Students with Special Needs**

If a student has a disability that may prevent him/her from the participations of class activities, please contact The Atlantic Centre: <http://www.smu.ca/administration/atlcentre/> as soon as possible. Every reasonable accommodation will be made to make sure that all students have an opportunity to learn and benefit from the course.

## **Weekly Schedule**

| <b>Week #</b> | <b>Dates</b> | <b>Required Reading</b> | <b>Projects/Test/Exams Type</b> |
|---------------|--------------|-------------------------|---------------------------------|
| 1             | Jan 7, 9     | Chapter 1               |                                 |
| 2             | Jan 14, 16   | Chapter 2               |                                 |
| 3             | Jan 21, 23   | Chapter 2               | Assignment 1                    |
| 4             | Jan 28, 30   | Chapter 5               | Assignment 2                    |
| 5             | Feb 4, 6     | Chapter 6               | Assignment 3, Project abstract  |
| 6             | Feb 11, 13   | Chapter 7               | Finalize Project topic          |
| 7             | Feb 18, 20   | <b>Winter Break</b>     |                                 |
| 8             | Feb 25, 27   | Chapter 8               |                                 |
| 9             | March 4, 6   | Chapter 9               |                                 |
| 10            | March 11, 13 | Chapter 11              | Midterm (Mar 13)                |
| 11            | March 18, 20 | Chapter 10              |                                 |
| 12            | March 25, 27 | Chapter 3               | In-class test (Mar 27)          |
| 13            | April 1, 3   | Project Presentations   |                                 |

**Note: The last day of final exams is April 26, 2014. Do not schedule any events (trips, vacations, etc.) on or before this date as we will be unable to reschedule the exam for you. March 14 is the last day to withdraw without academic penalty.**