THE UNIVERSITY OF WINNIPEG

APPLIED COMPUTER SCIENCE
Fall 2016

Course Number: **ACS-1803-053**
Course Name: **Introduction to Information Systems**
Course Website: **www.acs.uwinnipeg.ca/1803/053**

Instructor Information

Instructor: David Tenjo
E-mail: d.tenjo@uwinnipeg.ca
Office: 3D18
Office Hours: Friday 4:00-5:15 PM
Class Time: Tuesday 6:00 – 9:00PM
Class Location: 3D01

Important Dates

1. **Lectures Begin**: January 10th, 2017
2. **Midterm Test:** February 14th, 2017
3. **Reading Week:** February 19-25, 2017 (no classes)
4. **Final Exam:** April 12th, 2017 – 6:00 p.m. (Tentative – For updated information, go to http://www.uwinnipeg.ca/exam-schedules/docs/2016%20Apr%20Exams.pdf
5. **Voluntary Withdrawal Date w/o academic penalty:** March1st, 2017
   (A minimum of 20% of the work on which the final grade is based will be evaluated and available to the student before the voluntary withdrawal date.)

Additional Course Related Information

1. When it is necessary to cancel a class due to exceptional circumstances, instructors will make every effort to inform you via uwinnipeg email, as well as the departmental assistant and Chair/Dean so that class cancellation forms can be posted outside classrooms.

2. Your uwinnipeg email address will normally be used for course related correspondence.

3. Please note that withdrawing before the VW date does not result in a fee refund.

4. Class make-up days are scheduled at the end of term for courses that conflict with holidays.

Course Objectives/Learning Outcomes

Objectives

The course provides students with a basic conceptual understanding of computers and the basics of database and telecommunication technology. The course also addresses the question: “how can computers help a business (or

other organization)?" Highlights of business application systems that support the functions of accounting, finance, marketing, human resource management and manufacturing will be provided.

Enterprise Resource Planning Systems, Customer Relationship Management Systems, Executive Information Systems, Decision Support Systems and Expert Systems are also covered. Further, topics of eBusiness and eCommerce are covered. The final section of the course introduces the student to the process of developing a customized computer-based information system, presenting the system development life cycle and outlining the work of a systems analyst.

In this course students will develop information system literacy as it differs from computer literacy. They will develop a thorough overview of the different ways computers can be used in organizational management and operations.

Evaluation Criteria

1. **Assignments (20%)**
   - Assignment 1 due January 24th, 2017
   - Assignment 2 due *February 7th, 2017*
   - Assignment 3 due *March 7th, 2017*
   - Assignment 4 due *March 28th, 2017*

   All assignments due before the beginning of class. As a rule, late assignments will not be accepted, unless documented extenuating circumstances, such as a medical situation, prevented the timely completion of the work.

2. **Midterm Exam (25%)** – *February 14th, 2017*
   - Missed exam will receive a mark of zero. Unless a medical certificate is provided, no accommodation is made for missed exams.

3. **Final Exam (55%) -** April 12th, 2017 – 6:00 p.m. (Tentative – For updated information, go to http://www.uwinnipeg.ca/exam-schedules/docs/2016%20Apr%20Exams.pdf

   - Please contact the instructor as soon as possible if extenuating circumstances require you to miss a class, assignment, test or examination.

Keep a copy of all class work handed back in case there is an error in recording of marks by the instructor.

With regard to appeals, see Section 10 of the Regulations & Policies Document in the 2015-2016 Course Calendar **(http://uwinnipeg.ca/academics/calendar/docs/regulationsandpolicies.pdf).**

Final Letter Grade Assignment

Historically, numerical percentages have been converted to letter grades using the following scale. However, instructors can deviate from these values based on pedagogical nuances of a particular class, and final grades are subject to approval by the Department Review Committee.

A+	90+ - 100%	B	70 - 74%	F below 50%
A	85 - 90%	C+	65 - 69%	
A-	80 - 84%	C	60 - 64%	
B+	75 - 79%	D	50 - 59%	

Exam / Test Requirements

- Photo ID must be presented (Preferably U of W student ID).
- No electronic devices are allowed during exams.

Students Accessibility

Students with documented disabilities, temporary or chronic medical conditions, requiring academic accommodations for tests/exams (e.g., private space) or during lectures/laboratories (e.g., note-takers) are encouraged to contact Accessibility Services (AS) at 786-9771 or accessibilityservices@uwinnipeg.ca to discuss appropriate options. All information about a student's disability or medical condition remains confidential. http://www.uwinnipeg.ca/accessibility.

Students facing a charge of academic or non-academic misconduct may choose to contact the University of Winnipeg Students' Association (UWSA) where a student advocate will be available to answer any questions about the process, help with building a case, and ensuring students have access to support. For more information or to schedule an appointment, visit our website at www.theuwsa.ca/academic-advocacy or call 204-786-9780.

We ask that you please be respectful of the needs of classmates and instructors/professors by avoiding the use of unnecessary scented products while attending lectures. Exposure to scented products can trigger serious health reactions in persons with asthma, allergies, migraines or chemical sensitivities. Please consider using unscented necessary products and avoiding unnecessary products that are scented (e.g. perfume).

Required Text Book(s)/Reading List

- Fundamentals of Information Systems (8th edition), by Stair and Reynolds; Course Technology, ISBN13: 978-1-305-08216-8
- Additional Readings and Class Notes will be made available through the course web site.

Prerequisite Information* (This information can be found in the UW General calendar)

There are no formal pre-requisites listed in the calendar. However, it is assumed that students have a basic computer orientation.

Appeals and Academic Misconduct

Academic dishonesty (e.g. plagiarism, cheating) is a very serious offense and will be dealt in accordance with the University's policies. For Regulations and Policies, refer to: http://uwinnipeg.ca/new-faculty-handbook/appeals-and-academic-misconduct.html.

Topics to be covered (tentative list).

1. Database concepts; database modeling, data warehousing and mining. Data integrity, privacy, security principles. The concept of an information system. Batch and on-line processing.
2. Functional areas of business; need for information at different levels in the organization; Information Technology (IT) and business strategy.
3. Basic transaction processing and management reporting systems in: accounting, finance, marketing, human resources, manufacturing and supply chain management. Electronic Data Interchange, Enterprise Resource Planning systems.
4. Other types of business systems: Customer Relationship Management (CRM) Systems, Executive Information Systems, Decision Support Systems, Geographic Information Systems, Expert Systems, Knowledge Management Systems, Global Information Systems, Vertical Area Systems, Office Automation Systems; Web-based information systems.
5. Using information systems for competitive advantage. The Web and electronic commerce; mobile commerce; Internet business models. Internet security related to monetary transactions.
6. Security, ethics and internal control in organizational information systems. System security components. Access controls, application controls, system controls. Information system auditing. Trust Services (e.g., WebTrust) and seals.
7. Developing a customized information system: strategic considerations in systems development; the system development life cycle: investigation, analysis, design, development, implementation, post implementation review.
8. Assessment and acquisition of packaged systems; proprietary and open source software; end-user development; cloud computing.
9. Basic orientation to computer technology: hardware, system and application software, programming languages and non-procedural software.
10. Telecommunication / networking basics. Internet fundamentals; intranets, extranets.
11. The work of a systems analyst; the Information Systems Department and its interaction with business departments.