THE UNIVERSITY OF WINNIPEG

APPLIED COMPUTER SCIENCE
Fall 2017

Course Number: **ACS-1803-050**
Course Name: **Introduction to Information Systems**
Course Website: **http://courses.acs.uwinnipeg.ca/1803-050/**

Instructor Information

Instructor: Kerry Augustine
E-mail: k.augustine@uwinnipeg.ca
Phone: 204.296.4201
Class Time: Tuesday 6:00-9:00PM
Class Location: 3D01

Office: 3C07
Office Hours: Tuesday & Thursday 4:30-5:30
by appointment

Important Dates

1. **Lectures Begin**: September 5th, 2017
2. **Reading Week:** October 8-14, 2017 (no classes)
3. **Midterm Test:** October 17th, 2017
4. **Final Exam:** December 7, 2017 (TBD) – 6:00 p.m.
   http://www.uwinnipeg.ca/exam-schedules/index.html
5. **Voluntary Withdrawal Date w/o academic penalty:** Tuesday, November 10th, 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.)

Course Objectives/Learning Outcomes

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 *September 26th, 2017*
   - Assignment 2 due *October 17th, 2017*
   - Assignment 3 due *November 7th, 2017*
   - Assignment 4 due *November 21st, 2017*

   All assignments must be printed, stapled or placed in a folder and handed in at class on the due date.

   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%**) – *October 17th, 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%)**

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 (e.g., assignments, tests) 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 2017-2018 Undergraduate Academic 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. This includes the use of calculators, electronic dictionaries, or translators.

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 may choose not to attend classes or write examinations on holy days of their religion, but they must notify their instructors at least two weeks in advance. Instructors will then provide opportunity for students to make up work examinations without penalty. A list of religious holidays can be found in the 2017-18 Undergraduate Academic Calendar.

All students, faculty and staff have the right to participate, learn, and work in an environment that is free of harassment and discrimination. The UW Respectful Working and Learning Environment Policy may be found online at www.uwinnipeg.ca/respect .

Required Text Book(s)/Reading List

- Fundamentals of Information Systems (8th edition), by Stair and Reynolds; Course Technology, ISBN13: 978-1-305-08216-8   **or**

- Fundamentals of Information Systems (9th edition), by Stair and Reynolds; Course Technology, ISBN13: 978-1-337-09753-6
- Additional Readings and Class Notes will be made available through the course web site.

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

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

Misuse of Computer Facilities, Plagiarism, and Cheating

Academic dishonesty is a very serious offense and will be dealt in accordance with the University's policies. Be sure that you have read and understood section #8, starting on page 27, in the Regulations and Policies document of the 2017-2018 Undergraduate Academic Calendar**.**
http://uwinnipeg.ca/academics/calendar/docs/regulationsandpolicies.pdf

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 necessarily result in a fee refund.

4. April 5, 2018 is the class make-up date for courses that conflict with Good Friday, March 30.

5. No classes: Oct. 8 – 14 Mid-term reading week; Feb. 18-24 Winter Mid-term reading week; Friday, March 30 (Good Friday).

Topics to be covered (tentative list).

1. Definition of Data, information, and Information Systems

2. Database concepts; database modeling, data warehousing and mining. Data integrity, privacy, security principles. Database Management Systems.

3. Information needs at different levels in the organization. Operational, Tactical and Executive information Systems. Information Processing modes 9Batch, Online, etc.)

4. 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.

5. Other types of business systems: Customer Relationship Management (CRM) 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.

6. Using information systems for competitive advantage. The Web and electronic commerce; mobile commerce; Internet business models. Internet security related to monetary transactions.

7. Basic orientation to computer technology: hardware, programming languages and non-procedural software. System and application software. Operating systems.

8. Telecommunication / networking basics. Internet fundamentals; intranets, extranets.

9. 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.

10. Developing a customized information system: strategic considerations in systems development; the system development life cycle: investigation, analysis, design, development, implementation, post implementation review.

11. Assessment and acquisition of information systems; proprietary, open source software; end-user development; in-house applications, cloud computing.

12. The work of a systems analyst; the Information Systems Department and its interaction with business departments.