# THE UNIVERSITY OF WINNIPEG

**APPLIED COMPUTER SCIENCE**
**WINTER SESSION, 2018**

Course Number: **ACS-1803-005**
Course Name: **Introduction to Information Systems**

## Instructor Information

**Instructor: Eugene Kaluzniacky**　　　　　　**Office:** 3D25
**E-mail:** e.kaluzniacky@uwinnipeg.ca　　　　**Office Hours**: Thurs 4:00 – 5:15 PM
**Phone:** 204-786-9906

**Class Meeting Time**: **Tues., Thurs. 2:30-3:45 PM　　Room No: 4M37**
**Course Website**: **http://courses.acs.uwinnipeg.ca/1803-005**

## Important Dates

1. **First Class: Jan. 4, 2018**
2. **Midterm Test: February 15, 2018, 2:30 PM**
3. **Reading Week (no classes): February 19-23, 2018**
3. **Final Exam: April 16, 2018, 6:00 – 9:00 PM**
4. Final Withdrawal Date w/o academic penalty: **March 14, 2018**
   (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

The course provides a student with a basic conceptual understanding of computers and the basics of database and telecommunication technology. Then, it attempts to address the question: "how can computers help a business (or other organization)?"Here we will cover highlights of business application systems that support the functions of accounting, finance, marketing, human resource management and manufacturing.

This will lead us into more advanced applications such as Enterprise Resource Planning Systems, Customer Relationship Management Systems, Executive Information Systems, Decision Support Systems and Expert Systems. Further, we will examine the world of electronic commerce.

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 professional.

In this course the student will develop not so much *computer* literacy, but rather *information system* literacy. He / she will develop a thorough overview of the different ways computers can be used in organizational management and operations.

## Evaluation Criteria

1. **Assignments (20%)**
   - Number of Assignments: **4**
   - Information about assignments:

     Assignment 1, due **January 25**
     Assignment 2, due **February 27**
     Assignment 3, due **March 15**
     Assignment 4, due **April 3**

     - all assignments due in class or as otherwise stated; as a rule, <u>late assignments will lose 20% per day for the first 3 days; after that, they will not be accepted,</u> unless doctor's sick note is provided or there are seriously extenuating circumstances

     - assignments should be <u>typed</u>, pages stapled and placed <u>in an 8.5x11 folder</u> with <u>student and course name on outside of folder and on *every page*; keep copies of all assignment handed-in and all assignment returned after marking</u>

2. **Midterm Exam (25%) February 15, 2:30 – 3:55 PM**
   - Missed exam will receive a mark of zero, unless reason for absence is serious and properly documented (e.g. physician letter)

3. **Final Exam (55%) April 16, 2018, 6:00 – 9:00 PM**

## Exam / Test Requirements
- *Photo ID is required*
- *Use of calculators and electronic dictionaries or other electronic devices is not allowed during tests / exams*

## 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.

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|---|---|---|---|---|---|
| A+ | 90 - 100% | B | 70 - 74% | F | below 50% |
| A | 85 - 89% | C+ | 65 - 69% | | |
| A- | 80 - 84% | C | 60 - 64% | | |
| B+ | 75 - 79% | D | 50 - 59% | | |

## Email Communication
All email communication must be done using the **U of W email account.** Those are usually not filtered by the UofW email filter. There is no guarantee that emails sent from a different account will be addressed by the instructor.

## Accomodations available for Students
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 religious holidays. However, they must notify their instructor at least two weeks in advance. Instructors will then provide an opportunity for students to make up work or 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 (9th edition), by Stair and Reynolds; Course Technology, ISBN13: 978-1-337-09753-6

- Class Notes: Most will be on the web for you to print out

## 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. *Please note that this is NOT a hands-on computer course*. If you are looking for a basic literacy course teaching WP, spreadsheets, data management and Internet, you should enroll in ACS-1453.

Also, please note that this is useful for both Applied Computer Science and Business and Administration majors and can be taken as an elective by students in other majors.

## Misuse of Computer Facilities, Plagiarism, Cheating, Copyright Violation

Academic dishonesty is a very serious offense and will be dealt with in accordance with the University's policies. Be sure that you have read and understood Regulations & Policies #8, in the 2017-2018 UW Undergraduate Academic Calendar available at http://uwinnipeg.ca/academics/calendar/docs/regulationsandpolicies.pdf.
Additional information is available at University of Winnipeg library video tutorial "Avoiding Plagiarism" https://www.youtube.com/watch?v=UvFdxRU9a8g

Avoiding Academic Misconduct. Uploading essays and other assignments to essay vendor or essay trader sites (file sharing sites that are known providers of essays for use by others who submit them to instructors as their own work) involves "aiding and abetting" plagiarism. Students who do this can be charged with Academic Misconduct.

Avoiding Copyright Violation. Course materials are owned by the instructor who developed them. Examples of such materials are course outlines, assignment descriptions, lecture notes, test questions, and presentation slides. Students who upload these materials to file sharing sites, or in any other way share these materials with others outside the same class without prior permission of the instructor/presenter, are in violation of copyright law and University policy. Students must also obtain instructor/presenter permission before photographing or recording slides, presentations, lectures, and notes on the board.

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

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. Privacy and ethics concerns in application of information technology; computer crime.

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