Course Syllabus BUS-351G

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Business Information Systems

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Contact Details for Professor

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Credits: 6 ECTS

Course Description

The course uses systems theory to describe information systems. Starting from basic concepts (such as logic gates and the representation of data in binary form), computers (including central processing units, internal and external memory, input/output buses), communication protocols, computer networks, operating systems, middleware, application software and file formats are explained. Usage of information systems in organizations will be discussed. On a practical level, students will learn to use spreadsheets and relational database servers.

Course Prerequisites (if any)

BUS-101P

Learning Objectives

After this course, you should be able to:
Understand information system, using spreadsheets and databases.

- Acquire knowledge and understanding of Business and its functional fields
- General education
- Identify, analyze and solve a problem
- Apply the knowledge on the job
- Process and analyze data, using the appropriate tools
- Assess how business decisions affect people and the internal and external environment
- Be curious, inquisitive
- Develop an attitude of life-long learning
- Develop to become a well-rounded, critical citizen

Course schedule

Week 1	Introduction, systems theory
Week 2	Representation of data, binary numbers, logic
Week 3	Spreadsheets
Week 4	The central processing unit and the motherboard
Week 5	From hardware to software
Week 6	Operating systems and middleware
Week 7	Midterm Exam
Week 8	Interfaces and protocols
Week 9	Networks
Week 10	HTML
Week 11	Databases and SQL
Week 12	Application software
Week 13	Information systems in organizations
Week 14	Repetitions
Week 15	Final Exam

Course Materials

- A reader is available on Pointcarré.
  - For this course, you will need a computer (preferably a laptop) with:
    - Microsoft Windows, Apple Mac OS X, GNU/Linux/BSD or Unix operating system.
      - *You are expected to know how to use your operating system. Inform your instructor if this is a problem.*
    - An office suite such as Microsoft Office or LibreOffice
    - A text editor with syntax highlighting:
      - Windows users are advised to install Notepad++.
      - Mac OS X users may consider TextWrangler.
      - Linux, BSD, Unix, Windows and Mac users can use vim, emacs, Kate, gedit and many others.
      - A terminal program to connect to the database server. Linux and Mac OS users can use the build-in terminal software, Windows users can download and install PuTTY.
    - *All the links above point to software which can be downloaded freely. All other software for this course will also be available by free downloads.*

Course Assessment

The students will be evaluated on the basis of their performance as follows :

Homework	30%
Midterm Exam	30%
Final Exam	30%
In-class participation	10%
TOTAL	100%

Grading Scale of Vesalius College

Vesalius College grading policy, in line with the Flemish Educational norms, is now as stated follows:

Letter grade	Scale of 20	Scale of 100
A	17.0-20.0	85-100
A-	16.1-16.9	81-84
B+	15.3-16.0	77-80
B	14.5-15.2	73-76
B-	13.7-14.4	69-72
C+	13.1-13.6	66-68
C	12.3-13.0	62-65
C-	11.5-12.2	58-61
D+	10.7-11.4	54-57
D	10.0-10.6	50-53
F	0-9.9	0-49

Further description of assessment activities **and Grading Criteria**

The following criteria will be applied in assessing your written work:
Correctness, completeness

Additional Course Policies

Please contact the instructor if you miss a class or homework assignment.

Academic Honesty Statement

Academic dishonesty is **NOT** tolerated in this course.

Academic honesty is not only an ethical issue but also the foundation of scholarship. Cheating and plagiarism are therefore serious breaches of academic integrity.

Following the College policy, cheating and plagiarism cases will be communicated in writing to the Associate Dean for Students and submitted to the Student Conduct Committee for disciplinary action.

If you refer to someone else's work, appropriate references and citations must be provided. Grammar, spelling and punctuation count, so use the tools necessary to correct before handing in assignments.