Information Analysis and Systems Design

Business Administration 362

Section: D100

Term: 2003 Fall

Instructor: Drew Parker

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Discussion Topics: Course Objectives:

To provide students with grounding in the methods and tools used in information system development projects and to provide experience in the area of interface design and project management.

Course Material and Lecture Notes:

Available at: http://parker.bus.sfu.ca/bus362 . Most materials will be in html or Adobe Portable Document Format (PDF). The PDF format requires Adobe Acrobat 3.0 or later. See the web page for details on how to set this up.

Learning Objectives:

After completing this course the student should be able to:

* Develop system requests and feasibility assessments

* Create work plans for the management of system development projects

* Represent features of information systems graphically using a variety of techniques including data flow diagrams, entity relationship diagrams.

* Apply Unified Modeling Language (UML) diagrams including use cases, sequence diagrams, class diagrams, and statecharts to system analysis.

* Understand issues in interface design, in particular, issues involved with design and maintenance of business web sites.

Teaching Methods:

A combination of lectures, labs, examinations, and assignments will be used to communicate material in the course. Lectures will summarize and augment the textbook material. Lab work will be used to gain hands-on experience with software and technology. Assignments are designed to provide experience in applying analysis and design methods in a group environment. Examinations are used to assess individual learning performance.

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Grading: In-lab Assignments   20%

Midterm   20%

Analysis Project (due week 10) 20%

Web Design Project (due week 13)10%

Final   30%

Required Texts: Dennis, Alan and Barbara Wixon, 2003, Systems Analysis and Design, Second Edition,John Wiley and Sons, New York

ISBN: 0-471-07322-9

Recommended Texts:

Materials/Supplies:

Prerequisite/Corequisite: BUS 237; 60 credit hours.

CMPT 101 is recommended.

Notes: In-lab Assignments:

There are four in-lab assignments. The assignments are to be completed by groups of three or four students and are due at the end of the tutorial. The topic for the assignment will be known before each class.

Analysis Assignment (preliminary report due week 7, final report due week 10):

Students will work in groups consisting of four people. A \214group of four\202 is typically comprised of between three and five people. The assignment requires students to find a "real world" organization and use the modeling techniques that they have learned in the class to create a system analysis report on a "small" business process. We will discuss this assignment and possible applications extensively in the seminar. The objective of the analysis report is to communicate an understanding of a business process to a person who does not know how the business operates. A preliminary report identifying the process to be analyzed and system analysis diagrams is due in week 7. The preliminary report is worth 5% of the 20% mark (or 1/4 of the total analysis assignment).

Design Assignment (final report due week 13):

The design assignment is worth 10% of the final grade. Students will work in groups of 4 people (see note above). The design assignment requires students to build a prototype web site for the business application they analyzed. The functionality, interface design, style, and content of the site will be assessed. Creativity and originality in the design will also be counted. The assignment deliverables are a completed web site, appropriate documentation

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of the site, and a short report detailing the features of the site.

Final Exam:

The final exam is cumulative and will cover all chapters covered in lecture. The exam will be open book and will contain a mixture of multiple choice, short answer, and modeling questions. The exam is worth 30% of the final grade.

No Turorials in the first week of class

This outline is derived from a course outline repository database that was maintained by SFU Student Services and the University's IT Services Department. The database was retired in 2014 and the data migrated to SFU Archives in 2015.