## COX 3107 INFORMATION TECHNOLOGY II (3 CU)

**Course Description**

The course is designed to provide students with the ability to understand basic information systems practice like electronic software and managing electronic spread sheets. The course will also cover accounting applications and capital budgeting analysis including use of techniques like; NPV, IRR and using the solver to come up with optimal decisions.

**Objectives or Aims**

The course will help the students to achieve the following objectives:

* understanding the role of electronic software
* learning how to manage companies’ information systems
* understand how the solver is used to come up with optimal solutions
* Using electronic information systems for business operations.

**Learning Outcomes**

Students should be able to

* Manage companies’ information systems
* Use the solver to determine optimal solutions
* Use electronic information systems to business applications.

**Intellectual, practical and transferable skills**

* Problem solving skills
* Team work
* Analytical
* Communication

**Teaching and Learning Patterns**

* Use of case studies
* class discussions
* Group presentations

**Indicative Content**

Electronic spread sheets and other pertinent software, electronically managing general journals, specialized journals, financial statements analysis, payroll, inventory, accounts receivable, accounts payable, depreciation, use of capital budgeting techniques such as NPV and IRR, use of solver to determine optimal solutions, linear programming, sensitivity analysis and credit management using loan amortization schedules

**Assessment Method**

The assessment method is structured to include coursework and final examination. Coursework consists of assignments, presentations and tests.

Each course in the programme shall be assessed on the basis course work and final examination represented as follows:

Course work assessment 30%

 Final Examination 70%

 100%

The minimum cumulative mark required to pass is 50%, is required to pass this unit. This includes course work and final examination. Each course in the programme is allowed a maximum of three hours for final examination.

**Core reading textbooks**

1. [*Information Systems Management in Practice, Sixth Edition*](http://www.amazon.com/Information-Systems-Management-Practice-Sixth/dp/0131011391/ref%3Dsr_1_1?ie=UTF8&s=books&qid=1208844372&sr=1-1) by Barbara C. McNurlin and Ralph H. Sprague (Hardcover - Jul 16, 2003)
2. [*Strategic Information Management: Challenges and Strategies in Managing Information Systems, Third Edition*](http://www.amazon.com/Strategic-Information-Management-Challenges-Strategies/dp/0750656190/ref%3Dsr_1_2?ie=UTF8&s=books&qid=1208844372&sr=1-2) by ROBERT D GALLIERS and Dorothy E Leidner(Paperback - Jan 16, 2003)
3. [*Strategic Sourcing of Information Systems: Perspectives and Practices*](http://www.amazon.com/Strategic-Sourcing-Information-Systems-Perspectives/dp/047197787X/ref%3Dsr_1_3?ie=UTF8&s=books&qid=1208844372&sr=1-3) by Leslie P. Willcocks and Mary C. Lacity(Hardcover - Jan 15, 1998)
4. [*Transactional Information Systems: Theory, Algorithms, and the Practice of Concurrency Control (The Morgan Kaufmann Series in Data Management Systems)*](http://www.amazon.com/Transactional-Information-Systems-Algorithms-Concurrency/dp/1558605088/ref%3Dsr_1_4?ie=UTF8&s=books&qid=1208844372&sr=1-4) by Gerhard Weikum and Gottfried Vossen(Hardcover - May 24, 2001)
5. [*Financial Services Information Systems (Best Practices Series (Boca Raton, Fla.).)*](http://www.amazon.com/Financial-Services-Information-Systems-Practices/dp/0849398347/ref%3Dsr_1_8?ie=UTF8&s=books&qid=1208844372&sr=1-8) by Jessica Keyes (Hardcover - Mar 24, 2000