



COURSE IMPLEMENTATION DATE: December 2003  
 COURSE REVISED IMPLEMENTATION DATE: September 2010  
 COURSE TO BE REVIEWED: January 2014  
*(four years after UPAC approval) (month, year)*

**OFFICIAL UNDERGRADUATE COURSE OUTLINE INFORMATION**

Students are advised to keep course outlines in personal files for future use.  
 Shaded headings are subject to change at the discretion of the department – see course syllabus available from instructor

<b>CIS 480</b>	<b>Computer Information Systems</b>	<b>3</b>
COURSE NAME/NUMBER	FACULTY/DEPARTMENT	UFV CREDITS
<b>Decision Support Systems</b>		
COURSE DESCRIPTIVE TITLE		

**CALENDAR DESCRIPTION:**

This course explores topics in computer-based Decision Support Systems with a focus on the application of information technology to the solution of management problems. Topics include Management Support Systems, Business Intelligence, decision making systems, and intelligent systems.

**PREREQUISITES:** Acceptance to CIS degree program. (Students accepted to a CIS or Computing Science minor may register with permission of the department.)  
**As of September 2011, prerequisites will change to the following:**  
 Acceptance to CIS degree program, COMP 251, and one of the following: MATH 106; MATH 104 with a grade of B+ or better; or CYC 425; or PSYC 110 with a grade of B+ or better. (Students accepted to a CIS or Computing Science minor may register with permission of the department.)

**COREQUISITES:**  
 PRE or COREQUISITES:

**SYNONYMOUS COURSE(S):** \_\_\_\_\_  
 (a) Replaces: \_\_\_\_\_  
 (b) Cross-listed with: \_\_\_\_\_  
 (c) Cannot take: \_\_\_\_\_ for further credit.

**SERVICE COURSE TO:** *(department/program)*

**TOTAL HOURS PER TERM:** 45

**STRUCTURE OF HOURS:**

Lectures:	<u>45</u>	Hrs
Seminar:	_____	Hrs
Laboratory:	_____	Hrs
Field experience:	_____	Hrs
Student directed learning:	_____	Hrs
Other (specify):	_____	Hrs

**TRAINING DAY-BASED INSTRUCTION:**

Length of course: \_\_\_\_\_  
 Hours per day: \_\_\_\_\_

**OTHER:**

Maximum enrolment: 35  
 Expected frequency of course offerings: Once per year  
*(every semester, annually, every other year, etc.)*

**WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only)**  Yes  No  
**WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department)**  Yes  No  
**TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE:**  Yes  No

Course designer(s): <u>Duncan Jeffries</u>	Date approved: <u>September 18, 2009</u>
Department Head: <u>Ora Steyn</u>	Date of meeting: <u>November 6, 2009</u>
Supporting area consultation (Pre-UPAC)	Date approved: <u>September 18, 2009</u>
Curriculum Committee chair: <u>Edward Lo</u>	Date approved: <u>January 18, 2010</u>
Dean/Associate VP: <u>Dan Ryan</u>	Date of meeting: <u>January 29, 2010</u>
Undergraduate Program Advisory Committee (UPAC) approval	

**LEARNING OUTCOMES:**

Upon successful completion of this course, students will be able to:

- Describe Management Support Systems and how they are used
- Define decisions and how decisions are characterized
- Define a DSS, its purpose, and characteristics
- Describe how data are organized for a DSS
- Demonstrate an understanding of the characteristics and the process of Business Intelligence
- Clearly describe intelligent databases, data warehouses, multidimensionality, and data mining
- Define the architecture of Business Intelligence
- Compare decision making under assumed certainty, risk, and uncertainty
- Compare Collaborative Computing Technologies
- Describe Executive Information and Support systems

**METHODS:** (Guest lecturers, presentations, online instruction, field trips, etc.)

Lectures, assignments, and hands-on exercises

**METHODS OF OBTAINING PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):**

Examination(s)                       Portfolio assessment                       Interview(s)

Other (specify):

PLAR cannot be awarded for this course for the following reason(s):

**TEXTBOOKS, REFERENCES, MATERIALS:**

*[Textbook selection varies by instructor. An example of texts for this course might be:]*

Decision Support Systems and Business Intelligence Systems. 8e. by E. Turban & J. Aronson

**SUPPLIES / MATERIALS:**

CD for assignments and project

**STUDENT EVALUATION:**

*[An example of student evaluation for this course might be:]*

Assignments	30%
Midterm	35%
Final	35%

**COURSE CONTENT:**

*[Course content varies by instructor. An example of course content might be:]*

- Management support systems: An overview
- Decision Making, Systems, Modeling, and Support
- Decision Support Systems: An overview
- Business Intelligence
- Data Management: Warehousing, Access, and Visualization
- Modeling and Analysis
- Decision Support System Development
- Fundamentals of Expert Systems and Intelligent Systems
- Collaborative Computing Technologies
- Knowledge Management