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| COURSE IMPLEMENTATION DATE: | <u>December 2003</u> |
| COURSE REVISED IMPLEMENTATION DATE: | <u>September 2008</u> |
| COURSE TO BE REVIEWED: | <u>February 2012</u> |
| <i>(four years after UPAC approval)</i> | <i>(month, year)</i> |

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

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|--------------------------|-------------------------------------|--------------|
| <u>CIS 480</u> | <u>Computer Information Systems</u> | <u>3</u> |
| COURSE NAME/NUMBER | FACULTY/DEPARTMENT | UCFV CREDITS |
| | Decision Support Systems | |
| 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.)

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): Duncan Jeffries

Department Head: Ora Steyn

Date approved: January 18, 2008

Supporting area consultation (UPACA1)

Date of meeting: February 1, 2008

Curriculum Committee chair: Edward Lo

Date approved: January 17, 2008

Dean/Associate VP: Ian McAskill

Date approved: January 23, 2008

Undergraduate Program Advisory Committee (UPAC) approval

Date of meeting: February 29, 2008

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 working with Decision Support software.

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