UNIVERSITY OF THE FRASER VALLEY

OFFICIAL UNDERGRADUATE COURSE OUTLINE (page 1)

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

CIS 480	**Computer Information Systems**	**3**
COURSE NAME/NUMBER	FACULTY/DEPARTMENT	UFV 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.)
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:	45	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:	**September 18, 2009**
Supporting area consultation (Pre-UPAC)		Date of meeting:	**November 6, 2009**
Curriculum Committee chair:	**Edward Lo**	Date approved:	**September 18, 2009**
Dean/Associate VP:	**Dan Ryan**	Date approved:	**January 18, 2010**
Undergraduate Program Advisory Committee (UPAC) approval		Date of meeting:	**January 29, 2010**

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