

EDISON STATE COLLEGE

CURRICULUM COMMITTEE
NEW/EXPERIMENTAL COURSE PROPOSAL FORM

TO: CURRICULUM COMMITTEE
FROM: *Dr Martin Dubetz, and Dr. Doug Nay*
PRESENTER: Dennette Foy, Associate Dean
DATE: April 17, 2009

Is the course being offered first as an experimental course? yes no

Course Name, including prefix and number: ISM 3112 Systems Analysis and Design

Verified with VPAA office? yes no

Class credits: 3 Lab credits: Combined lab & class credits:

Chose one: Degree core requirement Elective General education

Repeatable for duplicate credit? (i.e., applied music courses) yes no

Prerequisites: Prior to enrolling in any upper level course (course number beginning with a 3 or 4), students must complete the following courses with a grade of C or better: ENC 1101 English Composition I, ENC 1102 English Composition II, and three semester hours of college level mathematics.

Classification: AA PSV PSAV BAS BS

ICS Code: Banner Major Code: SMAN

Major Restriction? yes no (meaning only declared majors may take the course)

Indicate all modalities in which the course may be taught: Class Lecture Clinical
 Laboratory Lecture/Lab Combined Accelerated Internship
 Practicum WebCT Internet WebCT Class Lecture WebCT Laboratory
 WebCt Blended Learning WebCT Lecture/Lab Combined

Course fee amount, if any: (Attach course fee worksheet)

NOTE: Course fees are presented to the District Board of Trustees in November. If approved, fees take effect the following fall term.

JUSTIFICATION FOR CURRICULUM ACTION, OTHER EXPLANATORY INFORMATION:

This course is part of the Bachelor in Applied Science in Supervision and Management program and enhances the program with elective coursework in the area of information systems management. An information systems management course meets students' needs for those pursuing a degree in supervision and management. The course number is in line with Florida numbering convention.

TERM IN WHICH PROPOSED ACTION WILL TAKE EFFECT: 201010 (For any term other than fall of the academic year following submission, approval of the Vice President of Academic Affairs is required.)

(Vice President of Academic Affairs)

FACULTY ENDORSEMENTS/COMMENTS:

Dr. Douglas Nay: This elective was first proposed after a curriculum review in the spring of 2008 which I completed in preparation for the Supervision and Management BAS degree. In addition, this course is in alignment with survey results obtained from program advisory members and business faculty. I endorse this course as an improvement in the program.

LEARNING OUTCOMES ASSOCIATE: _____ DATE: _____

DEPARTMENT CHAIR ENDORSEMENT: _____ DATE: _____

ACADEMIC DEAN'S ENDORSEMENT: _____ DATE: _____

After review and signing this proposal, the DEPARTMENT CHAIR will forward the proposal to the DISTRICT DEAN for final signature. The DISTRICT DEAN will then return the proposal to the DEPARTMENT CHAIR.

DISTRICT DEAN'S ENDORSEMENT: _____ DATE: _____

The DEPARTMENT CHAIR will process the proposal into a continuous document with any other proposals from his/her department being submitted for review by the Curriculum Committee and forward the document to the CURRICULUM COMMITTEE CHAIRPERSON by the Friday before the next scheduled Curriculum Committee meeting.

EDISON STATE COLLEGE
Division of Professional and Technical Studies

COMMON COURSE SYLLABUS

Professor:

Office Location:

E-mail:

Phone Number:

Office Hours:

I. COURSE NUMBER AND TITLE, CATALOG DESCRIPTION, CREDIT HOURS

ISM 3112 Systems Analysis and Design

3 Credits

This course introduces the analysis, design, implementation and operation of information systems. The course contrasts different approaches to analyzing information systems needs and the steps required to design and implement the system. User interface design, databases, reporting and interaction with internal, external and legacy systems is analyzed. Topics on cost/benefit analysis, outsourcing, security, training, case tools and life cycle of new or replacement systems are covered.

II. PREREQUISITES:

Prior to enrolling in any upper level course (course number beginning with a 3 or 4), students must complete the following courses with a grade of C or better: ENC 1101 English Composition I, ENC 1102 English Composition II, and three semester hours of college level mathematics.

III. GENERAL COURSE INFORMATION: Topic Outline:

- Building and analyzing a business case
- Requirement Modeling techniques
- Processes in the data systems lifecycle
- Uses of databases in a business organization
- Design and implementation a database system
- Integration with internal, external and legacy systems
- Design of user interfaces and reports
- Technical and personnel structures supporting information systems
- Database security and its impact on an organization
- Case tool kits

IV. LEARNING OUTCOMES AND ASSESSMENT:

General Education Competencies:

General education courses must meet all the following outcomes. All other courses will meet one or more of these outcomes.

At the conclusion of this course, students will be able to demonstrate the following competencies:

Communication (COM): To communicate (read, write, speak, listen) effectively using standard English and apply effective techniques to create working relationships with others to achieve common goals.

Critical Thinking (CT): To demonstrate skills necessary for analysis, synthesis, and evaluation.

Technology/Information Management (TIM): To demonstrate the skills and use the technology necessary to collect, verify, document, and organize information from a variety of sources.

Global Socio-cultural Responsibility (GSR): To identify, describe, and apply responsibilities, core civic beliefs, and values present in a diverse society.

Scientific and Quantitative Reasoning (QR): To identify and apply mathematical and scientific principles and methods.

Additional Course Competencies:

At the conclusion of this course, students will be able to demonstrate the following additional competencies:

Learning Outcomes	Assessment	Competency
Create a business case based on company needs and resources	Students are required to review and analyze several case studies as homework and class group projects Additional quizzes and exams are used to insure understanding of the basic skills, concepts and terminology.	CT, TIM, QR, COM
Analyze business cases and determine the appropriate IT support requirements	Students are required to review and analyze several case studies as homework and class group projects Additional quizzes and exams are used to insure understanding of the basic skills, concepts and terminology.	CT, TIM, QR, COM
Evaluate data requirements and mechanisms for data acquisition, processing and delivery	Students are required to review and analyze several case studies as homework and class group projects Additional quizzes and exams are used to insure understanding of the basic skills, concepts and terminology.	CT, TIM, QR, COM
Evaluate requirement documents and develop a project using the systems development life cycle for a business	Students are required to review and analyze several case studies as homework and class group projects Additional quizzes and exams are used to insure understanding of the basic skills, concepts and terminology.	CT, TIM, QR, COM
Create user interfaces and report formats for a particular business process	Students will design a information system, security system and system support by reviewing and analyzing several case studies as homework and class projects Additional quizzes and exams are used to insure understanding of the basic skills, concepts and terminology.	COM, CT, TIM, GSR
Analyze various databases systems and support personnel	Students will design a information system, security system and system support by reviewing and analyzing several case studies as homework and class projects. Additional quizzes and exams are used to insure understanding of the basic skills, concepts and terminology.	COM, CT, TIM, GSR
Develop database security procedures	Students will design an information system, security system and system support by reviewing and analyzing several case studies as homework and class projects. Additional quizzes and exams are used to insure understanding of the basic skills, concepts and terminology.	COM, CT, TIM, GSR
Design a system architecture, implementation, and operations plan	Students will demonstrate competency by discussing hardware, software and sourcing options to case studies. In addition, concepts will be tested through quizzes and exams.	COM, CT, TIM, QR
Evaluate the various case tools available to vacillate the design process	Students are required obtain and implement several case tool and evaluate their features. In addition, concepts will be tested through quizzes and exams.	CT, TIM, QR

V. **DISTRICT-WIDE POLICIES:**

Programs for Students with Disabilities

Edison College, in accordance with the Americans with Disabilities Act and the college's guiding principles, offers students with documented disabilities programs to equalize access to the educational process. Students needing to request an accommodation in this class due to a disability, or who suspect that their academic performance is affected by a disability should contact the Office of Adaptive Services at the nearest campus.

Lee Campus	Taeni Hall S-116A	(239) 489-9427
Charlotte Campus	Student Services SS-101	(941) 637-5626
Collier Campus	Admin. Bldg. A-116	(239) 732-3918
Hendry/Glades Ctr.	LaBelle H.S.	(863) 674-0408

VI. **REQUIREMENTS FOR THE STUDENTS:** List specific course assessments, such as class participation, tests, homework assignments, make-up procedures, etc.

VII. **ATTENDANCE POLICY:** The professor's specific policy concerning absence. (The College policy on attendance is in the Catalog, and defers to the professor.)

VIII. **GRADING POLICY:** Include numerical ranges for letter grades; the following is a range commonly used by many faculty:

90 – 100	=	A
80 – 89	=	B
79 – 70	=	C
60 – 69	=	D
Below 60	=	F

(Note: The “incomplete” grade [“I”] should be given only when unusual circumstances warrant. An “incomplete” is not a substitute for a “D,” “F,” or “W.” Refer to the policy on “incomplete” grades.)

IX. **REQUIRED COURSE MATERIALS:**

X. **RESERVED MATERIALS FOR THE COURSE:** Other special learning resources.

XI. **CLAST COMPETENCIES INVOLVED IN THE COURSE:**

XII. **CLASS SCHEDULE:** This section includes assignments for each class meeting or unit, along with scheduled Learning Resource Center (LRC) media and other scheduled support, including scheduled tests.

XIII. **ANY OTHER INFORMATION OR CLASS PROCEDURES OR POLICIES** which would be useful to the students in the class.