FLORIDA STATE COLLEGE AT JACKSONVILLE

COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER:	CIS 2322
COURSE TITLE:	Tools for IT Design and Planning
PREREQUISITE(S):	CGS 1100
COREQUISITE(S):	None
CREDIT HOURS:	3
CONTACT HOURS/WEEK:	4
CONTACT HOUR BREAKDOWN:	
Lecture/Discussion:	
Laboratory:	
Other: Lecture/Lab Combination	4
FACULTY WORKLOAD POINTS:	3.7
STANDARDIZED CLASS SIZE ALLOCATION:	24

CATALOG COURSE DESCRIPTION

This course will provide the student with the basic concepts of how to manage Information Technology (IT) within organizational settings. Topics covered in the course include technology topics such as hardware, software, and networking. Other areas covered are IT applications, methodologies and techniques for developing, purchasing and implementing information systems (IS) and user support. Special focus will be on alternative approaches to planning and managing IT resources and the IS organization. Prerequisite is CGS 1570 or CGS 1100. A working knowledge of Microsoft Office tools (Word, Excel, Access and PowerPoint) is required.

SUGGESTED TEXT(S):	None
IMPLEMENTATION DATE:	Fall Term, 2003 (20041)
REVIEW OR MODIFICATION DATE:	Fall Term, 2008 (20091) – Outline Review 2007

COURSE TOPICS	CONTACT HOURS PER TOPIC
I. Introduction to the .NET Framework and the Common Language Runtime	3
II. Object-oriented programming	3
III. Object-oriented programming constructs	3
IV. Design of graphical user interfaces (GUIs)	3
V. Exception handling and debugging	3
VI. File handling	3
VII. Database programming fundamentals	3
VIII. Access and SQL Server databases	3
IX. ADO.NET; connecting, querying, modifying	3
X. Overview of Internet programming	3
XI. Introduction to Web Services	3
XII. ASP.NET and Web Forms	3
XIII. Introduction to graphics programming	3
XIV. Abstract data structures	3
XV. Creating help systems and applications deployment	3
XVI. Computer programming projects and assignments using Visual Basic.NET language	15
	Total: 60

PROGRAM TITLE: Computer Programming and Analysis

COURSE TITLE: Tools for IT Design and Planning

CIP NUMBER: 1507.030500 (AS)/ 0507.030500 (AAS)

LIST PERFORMANCE STANDARD ADDRESSED:

NUMBER(S): TITLES(S):

INTENDED OUTCOMES: After successfully completing this course, the student will be able to:

02.0 Perform analysis activities

05.0 Perform testing activities

09.0 Perform evaluation activities.

10.0 Demonstrate professional development skills.

12.0 Demonstrate general organizational computing workplace competencies.

02.0 Perform analysis activities --The student will be able to:

02.01 Communicate with users.
02.02 Define requirements.
02.03 Analyze user requirements.
02.04 Evaluate alternatives.
02.05 Analyze system requirements.
02.06 Create a plan for design.
02.07 Develop a timeline.
02.08 Communicate the plan.
02.09 Develop systems specifications.
02.10 Develop systems documentation.
02.11 Evaluate system.

05.0 Perform testing activities -- The student will be able to:

05.01 Develop test plan.
05.02 Develop test data.
05.03 Validate input(s).
05.04 Perform test(s).
05.05 Validate expected outcomes.
05.06 Determine system boundaries.
05.07 Load test the system.
05.08 Revise program code.
05.09 Document results.

LIST PERFORMANCE STANDARD ADDRESSED: (CONTINUED)

NUMBER(S): TITLES(S):

09.0 Perform evaluation activities -- The student will be able to:

- 09.04 Assist in revisions and enhancements.
- 09.05 Assist in project evaluation.
- 09.06 Recommend improvements.
- 09.07 Provide feedback.

10.0 Demonstrate professional development skills -- The student will be able to:

- 10.01 Use on-line resources related to employee job requirements
- 10.02 Read industry journals and magazines.
- 10.03 Attend trade shows and seminars.
- 10.04 Participate in professional organizations.
- 10.05 Develop insights and skills through structured experimentation.
- 10.06 Anticipate future industry trends.
- 10.07 Attend continuing education opportunities.
- 10.08 Develop professional contacts for future projects.
- 10.09 Embrace change.

12.0 Demonstrate general organizational computing workplace competencies – The student will be able to:

- 12.01 Follow oral and written instructions.
- 12.02 Prepare, outline, and deliver a short oral presentation.
- 12.03 Participate in group discussion as a member and as a leader.
- 12.04 Obtain appropriate information from graphics, maps, or signs.
- 12.05 Prepare visual material to support an oral presentation.
- 12.06 Demonstrate self-motivation and responsibility to complete an assigned task.

Florida State College At Jacksonville

Course Learning Outcomes & Assessment

NOTE: Use either the Tab key or mouse click to move from field to field. The box will expand to accommodate your entry.

Section 1	
COURSE PREFIX AND NUMBER: CIS 2322	**SEMESTER CREDIT HOURS (CC):** 3 CONTACT HOURS (NCC): _____
COURSE TITLE: Tools for IT Design and Planning	

Section 2

TYPE OF COURSE: (Click on the box to check all that apply)

☐ AA Elective	☐ AS Required Professional Course	☐ College Prep
☒ AS Professional Elective	☐ AAS Required Professional Course	☐ Technical Certificate
☐ Other _____	☐ PSAV	☐ Apprenticeship
☐ General Education: (For General Education courses, you must also complete Section 3 and Section 7)		

Section 3 (If applicable)

INDICATE BELOW THE DISCIPLINE AREA FOR GENERAL EDUCATION COURSES:

☐ Communications	☐ Social & Behavioral Sciences	☐ Mathematics
☐ Natural Sciences	☐ Humanities	

Section 4

INTELLECTUAL COMPETENCIES:

☒ Reading	☒ Speaking	☒ Critical Analysis	☒ Quantitative Skills	☐ Scientific Method of Inquiry
☒ Writing	☒ Listening	☒ Information Literacy	☒ Ethical Judgment	☒ Working Collaboratively

Section 5	**LEARNING OUTCOMES**	**METHOD OF ASSESSMENT**
•	Discuss rationale for .NET applications	Evaluation of authentic learning task, exams
•	Discuss rationale for OOP techniques	Evaluation of authentic learning task, exams
•	Discuss effective design strategies for GUI	Evaluation of authentic learning task, exams
•	Discuss effective exception handling strategies	Evaluation of authentic learning task, exams
•	Discuss rationale for data persistence (file, databases)	Evaluation of authentic learning task, exams
•	Discuss rationale for client-server vs Web applications	Evaluation of authentic learning task, exams
•	Discuss rationale for effective help systems	Evaluation of authentic learning task, exams
•	Discuss deployment strategy	Evaluation of authentic learning task, exams
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Section 6

Name of Person Completing This Form: Gail Gehrig Date: 9/17/2007