School of Computing and Information Sciences

Course Title: Introduction to Computing **Date:** 11/20/06

Course Number: CGS 1XXX (Lower division)

Number of Credits: 1 (P/F grade)

Subject Area: General Computing	**Subject Area Coordinator:** **email:**
Catalog Description: An introductory course to the field of computing will provide an overview of this field to students at an early stage. Also, outlines research programs and potential career options.	
Textbook:	
References: Computing Curricula 2005 - Overview (pdf file) IT Curricula 2005 (pdf file)	
Prerequisites Courses: None.	
Corequisites Courses: None	

Type: Required (for both CS and IT majors)

Prerequisites Topics:

None

Course Outcomes:

1. Be familiar with the scope of degree programs in the computing field
2. Master the overview of Computer Science program
3. Master the overview of Information Technology program
4. Be exposed to the research opportunities for undergraduate students
5. Be exposed to the graduate programs
6. Be familiar with the career potential opportunities
7. Be familiar with the professional organizations

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Outline

Topic	Number of Lecture Hours	Course Outcome
• Introduction to the computing field o Overview of computing o Computing disciplines	1	1
• Program overview o B.S. in Computer Science o B.S. in Information Technology o B.A. in Information Technology o Accreditation and Advisory Board	1	2,3
• Guest lectures o Broad areas of computing o Industrial lecture	4	2,3
• Undergraduate research o Research Experience in Undergraduate o Internships	1	4
• Introduction to graduate schools o Research centers in SCIS o Outline of graduate programs o GRE	1	5
• Career o Potential career options o Career Services presentation	1	6
• Presentation of organizations o ACM, IEEE o WICS o UPE o Course feedback survey	1	7

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Course Outcomes Emphasized in Laboratory Projects / Assignments:

None

	Outcome	Number of Weeks
1		
2		
3		
4		

Oral and Written Communication: No significant coverage

Number of written reports:

Approximate number of pages for each report:

Number of required oral presentations:

Approximate time for each presentation:

Social and Ethical Implications of Computing Topics

Topic	Class time	Student performance measures
Professional organizations	**1**	

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Theoretical Contents

Topic	Class time

Problem Analysis Experiences

Solution Design Experiences
