

**STATE UNIVERSITY OF NEW YORK
COLLEGE OF TECHNOLOGY
CANTON, NEW YORK**



MASTER SYLLABUS

CITA 163 - SURVEY OF INFORMATION TECHNOLOGY

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**CANINO School of Engineering
Decision Systems
Spring 2019**

- A. **TITLE:** Survey of Information Technology
- B. **COURSE NUMBER:** CITA163
- C. **CREDIT HOURS:** (Hours of Lecture, Laboratory, Recitation, Tutorial, Activity)

Credit Hours: 3
 # Lecture Hours: 3 per week
 # Lab Hours: per week
 Other: per week

Course Length: 15 Weeks

- D. **WRITING INTENSIVE COURSE:** No
- E. **GER CATEGORY:** None
- F. **SEMESTER(S) OFFERED:** Fall/Spring
- G. **COURSE DESCRIPTION:**

This course is an introductory survey of Information Technology (IT) and IT terminology. Emphasis is on current and emerging technologies. Topics include: computer system components, communications and networks including the Internet, basic concepts in programming languages, information system development, IT impact on society, security, privacy and ethics.

- H. **PRE-REQUISITES/CO-REQUISITES:**

None

- I. **STUDENT LEARNING OUTCOMES:**

<u>Course Student Learning Outcome [SLO]</u>	<u>PSLO</u>	<u>GER</u>	<u>ISLO</u>
a. Explain computer system components	1. Communicate effectively both verbally and in writing 2. Demonstrate a solid understanding of the methodologies and foundations of IT		1. Communication 2. Crit. Thinking
b. Define various communications and networks including the Internet	1. Communicate effectively both verbally and in writing 2. Demonstrate a solid understanding of the methodologies and foundations of IT		1. Communication 2. Crit. Thinking
c. Use basic concepts in programming languages	1. Identify issues and collaborate on		2. Crit. Thinking 3. Foundational Skills

	solutions concerning IT in an effective and professional manner 2. Demonstrate a solid understanding of the methodologies and foundations of IT		
d. Outline information system development	2. Demonstrate a solid understanding of the methodologies and foundations of IT		2. Crit. Thinking
e. Examine issues of IT's impact on society, security, privacy and ethics	1. Explain the role of management as it applies to business practices in IT 2. Describe the societal impact of IT, including professional, ethical and social responsibilities		2. Crit. Thinking 3. Foundational Skills
f. Produce a basic web page	1. Demonstrate a solid understanding of the methodologies and foundations of IT 2. Apply problem solving and troubleshooting skills		2. Crit. Thinking 3. Foundational Skills

J. **APPLIED LEARNING COMPONENT:** Yes X No

- Classroom

K. **TEXTS:**
Gaskins. (n.d.). *GO! All in One Computer Concepts & Applications* (3rd ed.). Pearson.

L. **REFERENCES:** None

M. **EQUIPMENT:** Technology Enhanced classroom

N. **GRADING METHOD:** A-F

O. **SUGGESTED MEASUREMENT CRITERIA/METHODS:**

- Class Assignments
- Quizzes
- Individual/Team Project
- Hour Exams

P. DETAILED COURSE OUTLINE:

- I. Introduction to Computers
 - A. Computer and its components
 - B. Categories of computers
 - C. Various computer applications in society
- II. The Internet and the World Wide Web
 - A. The Internet
 - B. The Web
 - C. Search for information on the Web
 - D. Web Publishing
- III. Application Software
 - A. Categories of application software
 - B. Software distribution
 - C. Interaction with application software
 - D. Application software on the web
- IV. Communication and Networks
 - A. Components of communications
 - B. Advantages of using a network
 - C. Various network communications technologies
 - D. Commonly used communication devices
- V. Computers and Society, Security, Privacy, and Ethics
 - A. Safeguards against computer security risks
 - B. Backing up computer resources
 - C. Information privacy
 - D. Information accuracy, rights, and conduct
- VI. Programming Languages and Program Development
 - A. Structured design and object-oriented design
 - B. Various ways to develop Web pages
 - C. Steps in program development cycle
- VII. Computer Careers and Certification
 - A. Career opportunities in computer industry
 - B. Backing up computer resources
 - C. Information privacy
 - D. Information accuracy, rights, and conduct
- VIII. ! Other Topics: As Defined by the Instructor (The topics on most recent IT developments are strongly recommended.)

Q. LABORATORY OUTLINE: