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

COURSE OUTLINE
CITA 163 - SURVEY OF INFORMATION TECHNOLOGY

Prepared By: Stacia Dutton

CANINO SCHOOL OF ENGINEERING TECHNOLOGY
DECISION SYSTEMS
March 2015
A. **TITLE:** Survey of Information Technology

B. **COURSE NUMBER:** CITA 163

C. **CREDIT HOURS:** 3

D. **WRITING INTENSIVE COURSE:** No

E. **COURSE LENGTH:** 15 weeks

F. **SEMESTER(S) OFFERED:** Fall/Spring

G. **HOURS OF LECTURE, LABORATORY, RECITATION, TUTORIAL, ACTIVITY:**
   3 lecture hours per week

H. **CATALOG 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.

I. **PRE-REQUISITES/CO-COURSES:** None

J. **GOALS (STUDENT LEARNING OUTCOMES):**
   By the end of this course, the student will:

<table>
<thead>
<tr>
<th>Course Objective</th>
<th>Institutional SLO</th>
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<tbody>
<tr>
<td>a. Explain computer system components</td>
<td>1. Communication</td>
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<tr>
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<td>2. Crit. Thinking</td>
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<tr>
<td>b. Define various communications and networks including the Internet</td>
<td>1. Communication</td>
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<td>2. Crit. Thinking</td>
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<tr>
<td>c. Use basic concepts in programming languages</td>
<td>2. Crit. Thinking</td>
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<td></td>
<td>3. Prof. Competence</td>
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<td>d. Outline information system development</td>
<td>2. Crit. Thinking</td>
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<tr>
<td>e. Examine issues of IT's impact on society, security, privacy and ethics</td>
<td>2. Crit. Thinking</td>
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<tr>
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<td>3. Prof. Competence</td>
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<tr>
<td>f. Produce a basic web page</td>
<td>2. Crit. Thinking</td>
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<tr>
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<td>3. Prof. Competence</td>
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K. **TEXTS:** Pinard, Katherine (2013). CMPTR2, Cengage Learning

L. **REFERENCES:** None

M. **EQUIPMENT:** Technology Enhanced classroom

N. **GRADING METHOD:** A-F
O. **MEASUREMENT CRITERIA/METHODS:**
   • Class Assignments
   • Quizzes
   • Individual/Team Projects
   • Hour Exams

P. **DETAILED TOPICAL 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:** N/A