COURSE OUTLINE

CITA 163 - SURVEY OF INFORMATION TECHNOLOGY

Prepared By: Stacia Dutton
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>
<td></td>
<td>2. Crit. Thinking</td>
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<tr>
<td>b. Define various communications and networks</td>
<td>1. Communication</td>
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<td>including the Internet</td>
<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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<tr>
<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,</td>
<td>2. Crit. Thinking</td>
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<td>privacy and ethics</td>
<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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<td></td>
<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 Project
   - Hour Exams

P. **DETAILED TOPICAL OUTLINE:**

I. Introduction to Computers
   - Computer and its components
   - Categories of computers
   - Various computer applications in society

II. The Internet and the World Wide Web
   - The Internet
   - The Web
   - Search for information on the Web
   - Web Publishing

III. Application Software
   - Categories of application software
   - Software distribution
   - Interaction with application software
   - Application software on the web

IV. Communication and Networks
   - Components of communications
   - Advantages of using a network
   - Various network communications technologies
   - Commonly used communication devices

V. Computers and Society, Security, Privacy, and Ethics
   - Safeguards against computer security risks
   - Backing up computer resources
   - Information privacy
   - Information accuracy, rights, and conduct

VI. Programming Languages and Program Development
   - Structured design and object-oriented design
   - Various ways to develop Web pages
   - Steps in program development cycle

VII. Computer Careers and Certification
   - Career opportunities in computer industry
   - Backing up computer resources
   - Information privacy
   - 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