

PELLISSIPPI STATE TECHNICAL COMMUNITY COLLEGE
MASTER SYLLABUS

INTRODUCTION TO INFORMATION TECHNOLOGY
CSIT 1110 (formerly CST 1110)

Class Hours: 3.0

Credit Hours: 4.0

Laboratory Hours:
3.0

Revised: Fall 2005

NOTE: This course is not intended for transfer credit.

Catalog Course Description:

A first course in computer science and information technology, providing a comprehensive overview of computer architecture, data organization and communication. The course includes problem solving, logic design, personal computing, operating systems and application software.

Entry Level Standards:

The entry level student is not expected to have familiarity with computers. The student should be able to use a standard keyboard and maintain 23 words per minute error-free typing rate. The student must have writing, verbal and English language skills at the college entry level.

Prerequisites/Corequisites: None

Textbook(s) and Other Course Materials:

Discovering Computers 2007: A Gateway to Information, Complete, by Shelly, Cashman, Vermaat. Course Technology
Alice 2.0, by Shelly, Cashman, & Herbert. Course Technology.
Office XP. CD Course Technology

I. Week/Unit/Topic Basis:

Week	Topic
1	Introduction to Computer; Computer History
2	Internet and Worldwide Web; Making Use of the Web
3	Application Software; Business, Graphics, Multimedia Software
4	Components of System Units; Numbering System; App. A
5	Test 1 Personal and Mobile Devices
6	Output; Digital Imaging and Video Technology
7	Storage
8	Programming Languages & Program Development; Introduction to Alice; Project One

9	Test 2 Operating Systems; Alice; Project Two
10	Communication and Network; Alice; Project Three
11	Database Management; Alice; Project Four
12	Computer Security
13	Information System Development
14	Enterprise Computing; Computer Careers and Certificates
15	Final Exam

II. Course Objectives*:

- A. Develop a working understanding of the terminology and hardware devices associated with computer science, programming and data processing. III, II, V, X
- B. Demonstrate basic fundamentals of Microsoft Windows concepts. III
- C. Demonstrate basic fundamentals of spreadsheet and word processing. III
- D. Exhibit knowledge of MS-DOS operating system and PC microcomputer equipment. II, IX
- E. Exhibit knowledge of a minicomputer operating system (Open VMS and AS/400 Operations) commands and E-mail. II, IX
- F. Develop an understanding of the UNIX operating system (Solaris) commands. II, IX

*Roman numerals after course objectives reference goals of the CSIT program.

III. Instructional Processes*:

Students will:

1. Use operating systems commands and utilities to perform practical tasks for personal computing. *Technological Literacy Outcome, Transitional Strategy, Active Learning Strategy*
2. Solve problems in computer mathematics. *Technological Literacy Outcome, Mathematics Outcome*
3. Use professionally accepted methods and materials in completion of applications. *Technological Literacy Outcome, Mathematics Outcome*
4. Use the Internet as a medium for obtaining documentation and instruction. *Communication Outcome, Technological Literacy Outcome, Transitional Strategy*
5. Use the Computer-Based Training for obtaining instruction. *Communication Outcome, Technological Literacy Outcome, Transitional Strategy*
6. Prepare, review, and study documents for distribution to all class members via E-mail. *Communication Outcome, Technological Literacy Outcome*
7. Practice elements of the work ethic such as punctuality, professionalism, dependability,

cooperation, and contribution. *Social/Behavioral Sciences Outcome, Active Learning Strategies*

*Strategies and outcomes listed after instructional processes reference TBR's goals for strengthening general education knowledge and skills, connecting coursework to experiences beyond the classroom, and encouraging students to take active and responsible roles in the educational process.

IV. Expectations for Student Performance*:

Upon successful completion of this course, the student should be able to:

1. Use terminology associated with computer science, programming and data processing fields. A,B,C,D,E,F
2. Use keyboard, diskette, CPU hardware, DOS. A,B,C,D,E
3. Log-on/boot-up, operate, communicate, and use lab system. A,B,D,E,F
4. Use internal and external DOS commands. D
5. Prove DOS proficiency in the creation of prompts, sub-directories, formatted disks, batch files and utilize pipes and redirection. D
6. Load and run software products and facilities available on the system. A,B,C,D,E,F
7. Transfer data files to/from one storage device to another and use the printing facilities available on the system. A,B,C,D,E,F
8. Produce a document using computer software products and media resources. B,C,D,E
9. Use the PC style keyboard in accessing files, entering data, keying commands and utilizing the microcomputer and minicomputers. B,C,D,E,F
10. Illustrate an understanding of algorithms, storage concepts, binary systems, program storage and execution. A
11. Illustrate an understanding of system architecture, I/O devices, networking and telecommunications devices, time-sharing, data correctness, language types, software concepts and techniques. A

*Letters after performance expectations reference the course objectives listed above.

V. Evaluation:

A. Testing Procedures:

A minimum of three tests is recommended. Tests will cover material presented in class. Tests are not to be missed without a valid excuse.

B. Laboratory Expectations:

Lab attendance is required. Assignments will be given and must be completed and handed in at the designated date and time.

C. Other Evaluation Methods:

Class participation, quizzes and homework will also comprise the final grade for the course.

D. Grading Scale:

93 – 100	A
88 – 92	B+
83 – 87	B
78 – 82	C+
73 – 77	C
65 – 72	D
Below 65	F

VI. Policies:

A. Attendance Policy:

Pellissippi State Technical Community College expects students to attend all scheduled instructional activities. As a minimum, students in all courses must be present for at least 75 percent of their scheduled class and laboratory meetings in order to receive credit for the course. [NOTE: No differentiation is noted for excused/unexcused absences. These will be treated as an absence.] (*Pellissippi State Catalog*)

B. Academic Dishonesty:

Plagiarism, cheating, and other forms of academic dishonesty are prohibited. Students guilty of academic misconduct, either directly or indirectly through participation or assistance, are immediately responsible to the instructor of the class. In addition to other possible disciplinary sanctions which may be imposed through the regular Pellissippi State procedures as a result of academic misconduct, the instructor has the authority to assign an F or a zero for the exercise or examination or to assign an F in the course. (*Pellissippi State Catalog*)

C. Accommodations for disabilities:

If you need accommodations because of a disability, if you have emergency medical information to share, or if you need special arrangements in case the building must be evacuated, please inform the instructor immediately. Please see the instructor privately after class or in his/her office. Students must present a current accommodation plan from a staff member in Services for Students with Disabilities (SSWD) in order to receive accommodations in this course. Services for Students with Disabilities may be contacted by going to Goins 127 or 131 or by phone: 694-6751(Voice/TTY) or 539-7153.

D. Other Policies:

Use of Equipment:

Any act of misuse, vandalism, malicious or unwarranted damage or destruction, defacing, disfiguring, or unauthorized use of property/equipment belonging to Pellissippi State is subject to disciplinary sanction.