

CS 5 Course Outline as of Summer 2017**CATALOG INFORMATION**

Dept and Nbr: CS 5

Title: COMPUTER LITERACY

Full Title: Computer Literacy

Last Reviewed: 5/8/2023

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	3.00	Lecture Scheduled	3.00	17.5	Lecture Scheduled	52.50
Minimum	3.00	Lab Scheduled	1.00	4	Lab Scheduled	17.50
		Contact DHR	0		Contact DHR	0
		Contact Total	4.00		Contact Total	70.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 105.00

Total Student Learning Hours: 175.00

Title 5 Category: AA Degree Applicable

Grading: Grade or P/NP

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly: CIS 5

Catalog Description:

Designed for the transfer student and/or the person wanting a broad knowledge of computer concepts. No previous experience with computers is required or assumed. This course presents an overview of computers in our world today, how they work, how they are used and their impact on society. Students will be introduced to the Internet and World Wide Web, basic programming concepts and productivity software including word processing, spreadsheet, presentation and database software.

Prerequisites/Corequisites:**Recommended Preparation:**

Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:**Schedule of Classes Information:**

Description: Designed for the transfer student and/or the person wanting a broad knowledge of computer concepts. No previous experience with computers is required or assumed. This course presents an overview of computers in our world today, how they work, how they are used and

their impact on society. Students will be introduced to the Internet and World Wide Web, basic programming concepts and productivity software including word processing, spreadsheet, presentation and database software. (Grade or P/NP)

Prerequisites/Corequisites:

Recommended: Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Transfer Credit: CSU;UC.

Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	Area		Effective:	Inactive:
	B	Communication and Analytical Thinking	Fall 1983	
CSU GE:	Transfer Area		Effective:	Inactive:
IGETC:	Transfer Area		Effective:	Inactive:
CSU Transfer:	Transferable	Effective:	Fall 1983	Inactive:
UC Transfer:	Transferable	Effective:	Fall 1983	Inactive:

CID:

Certificate/Major Applicable:

Both Certificate and Major Applicable

Approval and Dates

Version:	07	Course Created/Approved:	8/1/1981
Version Created:	11/8/2016	Course Last Modified:	12/30/2023
Submitter:	Abe Farkas	Course last full review:	5/8/2023
Version Status:	Approved (Changed Course)	Prereq Created/Approved:	5/8/2023
Version Status Date:	11/28/2016	Semester Last Taught:	Fall 2023
Version Term Effective:	Summer 2017	Term Inactive:	Fall 2024

COURSE CONTENT

Student Learning Outcomes:

At the conclusion of this course, the student should be able to:

1. Recognize the capabilities and limitations of computer technology, and the theoretical foundations of computing.
2. Critically assess the social and ethical implications of computer technology in their daily life.
3. Improve problem solving and critical thinking through the application of scientific knowledge using hands-on activities.

Objectives:

Upon completion of the course, students will be able to:

1. Identify the components and function of the hardware used in a computer system.
2. Describe the function of system software.
3. Describe the function of application software.

4. List the steps in systems analysis and design.
5. Describe the popular programming languages and the process of developing computer software.
6. Create a simple computer program.
7. Analyze the impact of computer technology and its ethical implication on society.
8. Demonstrate basic proficiency of productivity software, including word processing, spreadsheet, presentation, database and multimedia software.
9. Demonstrate proficiency in electronic communications technology.
10. Explain basic computer networking concepts and architecture.
11. Use the Internet and World Wide Web to perform research.
12. Create a basic Web page.
13. Demonstrate proficiency in social networking.
14. Discuss computer security and its importance for business and personal use of computers.

Topics and Scope:

1. Computer Literacy as a Necessary Skill in the 21st Century
 - a. Becoming a Savvy Computer User and Consumer
 - b. Computers in Today's Careers
 - c. Understanding the Challenges Facing a Digital Society
2. The History of Computer Technology
3. Computer Hardware
 - a. Input Devices
 - b. Processing (System Unit)
 - i. Central Processing Unit
 - ii. The Machine Cycle
 - iii. Random Access Memory
 - c. Output Devices
 - d. Storage Devices
4. Using the Internet and World Wide Web
 - a. Communicating Through the Internet: E-Mail and Other Technologies
 - b. Social Networking
 - c. Web Entertainment: Multimedia and Beyond
 - d. Conducting Business over the Internet: E-Commerce
 - e. Managing Malware and Online Annoyances
 - f. Accessing the Web: Web Browsers
 - g. Searching the Web: Search Engines
 - h. The Internet and How It Works
 - i. The Cloud
 - j. The Future of the Internet
5. Information Technology Ethics
6. Application Software
 - a. Word-Processing Software
 - b. Spreadsheet Software
 - c. Presentation Software
 - d. Database Software
 - e. Graphics and Multimedia Software
 - f. Web Design Software
7. System Software
 - a. Operating Systems
 - b. Utility Programs
 - c. File Management

8. Computer Networking
 - a. Networking Fundamentals
 - b. Network Architectures
 - c. Network Components
 - d. Wireless Networks
 - e. Personal Area Networks
9. Computer Security
 - a. Computer Threats (Hackers, Viruses)
 - b. Computer Safeguards (Antivirus Software and Other Security Measures)
10. Mobile Computing
 - a. Mobile Computing Devices
 - b. Portable Media Players
 - c. Smartphones and mobile devices
 - d. Notebooks
11. Software Programming
 - a. The Binary Numbering System
 - b. Low Level Programming Languages
 - c. High Level Programming Languages
12. Databases and Information Systems
 - a. Database Types
 - b. Data Mining and Data Warehouses
 - c. The Systems Development Lifecycle
 - d. Systems Analysis

Assignment:

1. Read approximately 30 pages per week from the textbook.
2. Written homework and reading reports that review recently-covered topics.
3. Problem solving exercises requiring the use of spreadsheets and database management software.
4. Complete laboratory exercises in operating systems and word processing, spreadsheets, database management, and other application software.
5. Individual and/or team projects may include research and write-up of computer related articles on the web or technology magazines, interviews and reports, writing a basic program, team presentations on current trends in technology.
6. Quizzes, midterm, and final examinations

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Written homework and reading reports

Writing 20 - 65%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Problem solving exercises

Problem solving 5 - 20%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Projects

Skill Demonstrations
5 - 20%

Exams: All forms of formal testing, other than skill performance exams.

2-4 Quizzes, midterm, and final examination

Exams
20 - 65%

Other: Includes any assessment tools that do not logically fit into the above categories.

Attendance and participation

Other Category
0 - 10%

Representative Textbooks and Materials:

Technology In Action (10th), Evans, Alan. Poatsy, Mary Anne. Martin, Kendall. Prentice Hall: 2013.

Skills for Success Using Microsoft Office 2013, by Townsend, Kris. Gaskin, Shelley. Hain, Catherine. Murrewolf, Stephanie. Pearson Publishing: 2013.

OTHER REQUIRED ELEMENTS

STUDENT PREPARATION

Matric Assessment Required:	E	Requires English Assessment
Prerequisites-generate description:	NP	No Prerequisite
Advisories-generate description:	A	Auto-Generated Text
Prereq-provisional:	N	NO
Prereq/coreq-registration check:	N	No Prerequisite Rules Exist
Requires instructor signature:	N	Instructor's Signature Not Required

BASIC INFORMATION, HOURS/UNITS & REPEATABILITY

Method of instruction:	02	Lecture
	04	Laboratory
	72	Internet-Based, Delayed Interaction
	71	Internet-Based, Simultaneous Interaction
Area department:	CS	Computer Studies
Division:	72	Arts & Humanities
Special topic course:	N	Not a Special Topic Course
Program status:	1	Both Certificate and Major Applicable
Repeatability:	00	Two Repeats if Grade was D, F, NC, or NP
Repeat group id:		

SCHEDULING

Audit allowed:	N	Not Auditable
Open entry/exit:	N	Not Open Entry/Open Exit
Credit by exam:	N	Credit by examination not allowed
Budget code: Program:	0000	Unrestricted
Budget code: Activity:	0701	Computer & Information Science

OTHER CODES

Discipline:	Computer Information Systems	
Basic skills:	N	Not a Basic Skills Course
Level below transfer:	Y	Not Applicable
CVU/CVC status:	Y	Distance Ed, Not CVU/CVC Developed
Distance Ed Approved:	Y	Either online or hybrid, as determined by instructor
Emergency Distance Ed Approved:	Y	Fully Online Partially Online Online with flexible in-person activities
Credit for Prior Learning:	N	Agency Exam
	N	CBE
	N	Industry Credentials
	N	Portfolio
Non-credit category:	Y	Not Applicable, Credit Course
Classification:	Y	Liberal Arts and Sciences Courses
SAM classification:	C	Clearly Occupational
TOP code:	0701.00	Information Technology, General
Work-based learning:	N	Does Not Include Work-Based Learning

DSPS course:	N	Not a DSPS Course
In-service:	N	Not an in-Service Course
Lab Tier:	21	Credit Lab - Tier 1