Syllabus CSE 005 10, Spring 2022

Designation:

CSE 005 Introduction to Computer Applications

Catalog Description:

CSE005 is a project-based course which presents the use of computers to control information flow: data collection, management, analysis, and presentation. Basic programming skills, selection of appropriate computer-based tools and languages, and data security will be covered. Emphasis is placed on computer knowledge necessary for all majors to successfully use and manage data and information.

Textbooks and Other Required Materials:

1) June Jamrich Parsons. New Perspectives on Computer Concepts 2018, Comprehensive. ISBN: 978-1-30-595149-5, 20th edition
2) Steven M. Freund, Mary Z. Last, Philip J. Pratt, Susan L. Sebok and Misty E. Vermaat. Shelly Cashman Series Microsoft Office 365 & Office 2016: Intermediate. ISBN: 978-1-30-587038-3, 1st edition
3) Windows/Mac computer (Chromebooks are NOT sufficient) and flash drive or Dropbox (highly recommended for backup of lab/project work)

Course Objectives/Student Learning Outcomes:

A) Introduction to Management Information Systems (MIS) and Computer Information Literacy

1) Name and describe the typical digital computer components and their functions.
2) Describe the common computer applications and related social and ethical problems/impacts.
3) Learn fundamental operation and concepts of word processing, spreadsheet, and/or database software applications.
4) Understand the difference between information and knowledge.
5) Understand the links among information centers and the access points available through technology and reference sources.
6) Understand the basic structure of electronic databases and the strategies used to access them.

B) Design and program using discrete problem-solving steps

1) Analyze and relate the basics of programming to information systems.
2) Arrange and compare each of the phases of the system life cycle.
3) Appraise algorithm design and logic diagrams.
4) Construct and design projects using structured programming techniques.
5) Differentiate between the various decision techniques.
6) Examine basic debugging techniques.

Course Policies:

Class/Lab Schedule: CSE005 is a 4-credit course, which includes 2 hours of lecture, 6 hours of lab, and various assignments each week. You should plan on spending at least 4 hours outside of lecture and lab on reading, studying, projects, and assignments.

In-Lab Assignments: In-Lab and Project assignments will indicate your ability to apply the knowledge learned in lecture or may present an opportunity to expand on that knowledge. Lab assignments will be posted at the beginning of a scheduled day during the week and will be due at the end of the same day. Project assignments will be posted at the beginning of the week and will due at the end of that week.

Lab and project assignments ***require a Windows/Mac*** and cannot be completed using a Chromebook. The lab session will be used by the TA to briefly explain the assignment and provide any assistance.

To be given more time to finish a lab you must request for an extension ***before*** the day the assignment is posted on CatCourses with a valid justification. Requests will be considered on a case by case basis.
You are expected to save all lab work on your flash drive or Dropbox including group work.

Homework Assignments: Homework assignments are assigned to reinforce lessons learned in class and lab. Homework assignments will be assigned as needed. ***Late assignments will not be accepted without prior authorization.*** If you need assistance or are having problems submitting your assignments, you must alert the Instructor/TA ***before the assignment cut-off time.***

Assignment Submission: Each assignment (Homework, or Lab/Project) will have details about how to turn them in.

Assignments that are to be turned in via CatCourses will be considered late if they are not turned in by the due date/time. If you need assistance or are having problems submitting your assignments, you must alert the Instructor/TA ***before the assignment cut-off time. Assignments will not be accepted if they are turned in the wrong way*** (i.e., e-mailing the TA your assignment instead of submitting it on CatCourses).

Exams: Exams are to be completed in class. Exams cannot be made up if missed or you start late unless you obtain prior authorization with verified justification.

Academic Dishonesty Statement:

a. Each student in this course is expected to abide by the University of California, Merced's Academic Honesty Policy. Any work submitted by a student in this course for academic credit will be the student's own work.

b. You are encouraged to study together and to discuss information and concepts covered in lecture and the sections with other students. You can give "consulting" help to or receive "consulting" help from such students. However, this permissible cooperation should never involve one student having possession of a copy of all or part of work done by someone else, in the form of an e mail, an e mail attachment file, a diskette, or a hard copy. Should copying occur, both the student who copied work from another student and the student who gave material to be copied will both automatically receive a zero for the assignment. Penalty for violation of this Policy can also be extended to include failure of the course and University disciplinary action.

c. During examinations, you must do your own work. Talking or discussion is not permitted during the examinations, nor may you compare papers, copy from others, or collaborate in any way. Any

collaborative behavior during the examinations will result in failure of the exam, and may lead to failure of the course and University disciplinary action.

Disability Statement:

Accommodations for Students with Disabilities: The University of California Merced is committed to ensuring equal academic opportunities and inclusion for students with disabilities based on the principles of independent living, accessible universal design and diversity. I am available to discuss appropriate academic accommodations that may be required for student with disabilities. Requests for academic accommodations are to be made during the first three weeks of the semester, except for unusual circumstances. Students are encouraged to register with Disability Services Center to verify their eligibility for appropriate accommodations.

Topics:

Systems Analysis, Computer Hardware and Software, Operating Systems, Networking, the Internet, E-mail, Digital Media, Programming, Microsoft Office Applications.

Class/laboratory Schedule:

Lecture: M 5:30-7:20pm, Classroom: CLSSRM 120
Lab: See class schedule for time and link.

Midterm/Final Exam Schedule:

This schedule is subject to change, but is tentatively set as follows:

- Exam 1: 28-FEB, M 5:30pm-6:00pm, online
- Exam 2: 04-APR, M 5:30pm-6:00pm, online
- Final Exam: 12-MAY, TH 3:00-3:40pm, online

Assessment/Grading Policy:

Textbook Assignments 10%
Lab Assignments 35%
Projects 20%
Exams 1, 2 10% each
Final Exam 15%

Instructor:

Ammon Hepworth

Contact Information:

Email: ahepworth@ucmerced.edu
I will try to answer your emails within 48 hours. However, I may not be able to answer emails after 5:00 p.m. or on weekends/holidays.

TAs: Ariel Lavi, alavi@ucmerced.edu
Akshay Bhata, abhatia8@ucmerced.edu
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Varnika Chauhan, vchauhan@ucmerced.edu

Office Hours:

Instructor: By appointment
TA: Lab sessions will be used as office hours

Course Calendar:

Course calendar is **subject to change** but is tentatively set as follows:

Week	Lecture (M)	Lab1 (M/T/W)	Lab2 (R/F)
		Assignment posted on M at 12:00am and due the same day at 11:59pm.	**Assignment posted/week on M at 12:00am, and due on F at 11:59pm.**
01 (1/17 – 1/21)	**No Class: Martin Luther King Day**	**No Lab**	**No Lab**
02 (1/24 – 1/28)	Class Intro / Module Introduction	1 Course Success	Project 1a
03 (1/31 – 2/4)	Module 1: Digital Content	2 Digital Media	Project 1b
04 (2/7 – 2/11)	Module 1: Digital Content (cont.), Module 2: Digital Devices	3 Microsoft PowerPoint Module 6	Project 1c
05 (2/14 – 2/18)	Module 2: Digital Devices (cont.)	4 Review for Exam 1	Project 1d
06 (2/21 – 2/25)	**No Class: President's Day**	**No Lab**	**No Lab**
07 (2/28 – 3/4)	**Exam 1**	5 Working with DFDs	Project 1e
08 (3/7 – 3/11)	Module 3: Networks	6 Microsoft Word Module 5	Project 1f
09 (3/14 – 3/18)	Module 3: Networks (cont.)	7 Working With HTML	Project 2a
10 (3/21 – 3/25)	**No Class: Spring Break**	**No Lab**	**No Lab**
11 (3/28 – 4/1)	Module 4: The Web	8 Review for Exam 2	Project 2b
12 (4/4 – 4/8)	**Exam 2**	9 Microsoft Excel Module 4	Project 2c
13 (4/11 – 4/15)	Module 6: Software	9 Microsoft Excel Module 4 (Cont.)	Project 2d
14 (4/18 – 4/22)	Module 6: Software (cont.), Module 10: Databases	10 Microsoft Word Module 6	Project 2e
15 (4/25 – 4/29)	Module 10: Databases (cont.), Module 11: Programming	11 Programming	Project 2f
16 (5/2 – 5/6)	Module 11: Programming. (cont.), review semester.	12 Review for Final Exam	**No lab**
5/12	**Final Exam (Thursday, May 12 at 3pm)**		