

CMPS 1023: The Digital Culture

Instructor: Tina Johnson, Bolin 126F, (940) 397-6201, tina.johnson@msutexas.edu

Course Objective: Explore the history, current state, and cultural impact of the digital world. This course will prepare students to understand and relate to others in an increasingly online world and be productive members of a global digital society. Topics include history of computing from a global perspective, accessibility and the digital divide, computer security issues, evaluation of online materials, big data and the need for high performance computing, and an introduction to using productivity software and programming constructs to analyze and communicate these issues.

Text: No text is required for this course.

Additional Material: A USB or online data storage will be necessary for saving documents. Supplemental material will be provided (e.g. articles and web sites relating to cultural digital issues). In addition, Open Educational Resource (OER) may be utilized. OERs are teaching, learning, and research resources that reside in the public domain or have been released under an intellectual property license that permits their free use or re-purposing by others. OERs include full courses, course materials, modules, textbooks, streaming videos, tests, software, and any other tools, materials, or techniques used to support access to knowledge. ([Hewlett Report](#))

Academic Honesty: The Department of Computer Science had adopted the following policy related to cheating (academic misconduct). The policy will be applied to all instances of cheating on assignments and exams as determined by the instructor of the course.

- 1st instance of cheating in a course: The student will be assigned a non-replaceable grade of zero for the assignment, project or exam. In addition, the student will receive a one letter grade reduction in course.
- 2nd instance of cheating in a course: The student will receive a grade of F in course & immediately be removed from course.
- All instances of cheating will be reported to the Department Chair and, in the case of graduate students, to the Department Graduate Coordinator.

Research and Creative Opportunities at MSU: Enhancing Undergraduate Research and Creative Activities (EURECA) is a program that provides opportunities for undergraduate students to engage in high-quality research and creative activities with faculty. EURECA provides incentives and funding through a system that supports faculty and students in a cooperative research process. For more information contact the Office of Undergraduate Research, (940) 397-6275 or eureca@mwsu.edu. Information and resources are available at www.mwsu.edu/eureca.

Disability Policy: In accordance with the law, MSU provides academic accommodations to students with documented disabilities. Students with disabilities must be registered with Disability Support Services before classroom accommodations can be provided. The DSS office is located in Clark Student Center, Room 168, phone 397-4140.

Counseling Center: MSU offers personal, group, career, and academic counseling. Students are encouraged to take advantage of these **free** services by contacting the Counseling Center:
Corner of Hampstead and Louis J. Rodriguez Drive, 397-4618, counseling@mwsu.edu.

Campus Carry: Senate Bill 11 passed by the 84th Texas Legislature allows licensed handgun holders to carry concealed handguns on campus, effective August 1, 2016. Areas excluded from concealed carry are

appropriately marked, in accordance with state law. For more information regarding campus carry, please refer to the University's webpage at <https://mwsu.edu/campus-carry/index>.

Course Content: The material includes text reading assignments, lectures, programs, and homework. Students are responsible for all material regardless of attendance.

Course Grade:

Semester Exams (3)	45% (15% each)
Assignments	25%
Programs	25%
Final Project/Presentation	5%

COVID-19 Policy:

All members of the MSU Texas Community (students, faculty, staff, visitors, vendors and contractors) are required to wear protective face coverings on campus or in University facilities as provided below:

- I. *Requirements*
 - a. *In common areas on campus including, but not limited to, classrooms and other spaces used for teaching, research, and creative activity, student center, library, hallways, elevators, stairwells, restrooms, break rooms, foyers, event rooms and lobbies;*
 - b. *Other areas where physical distancing of at least 6 feet is not maintained. Even when physical distancing of at least 6 feet can be maintained, face coverings are strongly recommended.*
- II. *Exceptions*
 - a. *When eating or drinking, which should still be conducted maintaining physical distance;*
 - b. *In accordance with applicable law (e.g., an accommodation, including for medical reasons, under the Americans with Disabilities Act (ADA), or pursuant to a bona fide religious belief);*
 - c. *For children under the age of 2 years old; or*
 - d. *By an instructor/presenter in a classroom or event room when a physical distance of at least 10 feet can be maintained from the class members/audience.*

Other small assignments and quizzes may be assigned in addition to those scheduled below.

Week	Material Covered	Assignments
1 Jan 11-15	Class orientation and overview; The cloud and global collaboration	Cloud Computing (Critical Thinking) due week 2
2 Jan 18-22	Mon, Jan 18 MLK (no Classes) History of computing: U.K., U.S., and beyond	Writing Assignment on Social Responsibility / due week 3
3 Jan 25-29	Collecting and organizing data (Big Data) SQL vs. NoSQL (Mongo DB)	
4 Feb 1-5	Cultural issues in communication	Essay on Personal Responsibility / due week 7
5 Feb 8-12	Presenting/Understanding analyses of data in tables & charts	Excel Assignment / due week 6
6 Feb 15-19	No Classes - Winter Storm	Digital Divide Impact Report / due week 8
7 Feb 22-26	Exam 1 Computer Security	
8 Mar 1-5	Foundation of Digital World: Binary number system and base conversions	Group presentations assigned / due week 14
9 Mar 8-12	Foundation of Digital World: Intro to application languages used to process and analyze data and implications in a variety of disciplines (Intro to Python)	Program 1 assigned / due week 10
10 Mar 15-19	Data storage & organization in programs and relationship to Data Mining (Reading/Writing From Files) Exam 2	Program 2 assigned /due week 12
11 Mar 22-26	Decision Making in programs	Program 3 assigned /due week 13
12 Mar 29-Apr 2	Performing Repetitive tasks and relationship to high performance computing NO CLASSES FRI, APR 2	Program 4 assigned / due week 14
13 Apr 5-9	Societal & cultural implications of data mining, AI, DSS's and high performance computing (Regular expressions)	
14 Apr 12-16	Exam 3 Student Presentations on Global & Cultural Issues in the Digital World	Group Presentation on Digital Culture Friday Class will be held in BO 209
15 Apr 19-23	Student Presentations cont.	Group Presentations continued Friday Class will be held in BO 209
Wed Apr 28	Optional comprehensive final exam to replace low or missing exam	10:30am-12:30pm Bolin Room 209