

CMPS 1023: The Digital Culture

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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: 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 [Campus Carry](#).

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%
Assignments	20%
Programs	20%
Final Project/Presentation	15%

Some quizzes will be in class and some will be online

Week	Material Covered	Assignments
1 Aug 23-27	Class orientation and overview; History of computing	History of computing quiz
2 Aug 30-Sept 3	The cloud and global collaboration; Collecting and organizing data (big data/databases)	Cloud storage and security Big data quiz
3 Sept 6-10	Presenting/understanding analyses of data in tables & charts (spreadsheets)	Excel assignment
4 Sept 13-17	The digital divide & its cultural impacts cultures and technology	Cultures and technology quiz
5 Sept 20-24	Implications of social media Exam 1 Review Exam 1	Social media assignment Exam 1
6 Sept 27-Oct 1	Computer security (Rise of the Hackers video) Foundations of digital world: binary numbers	Rise of the Hackers quiz Binary numbers quiz
7 Oct 4-8	Base conversions	Base conversions quiz 1 Base conversions quiz 2
8 Oct 11-15	Introduction to python: Programming language used to process and analyze data with implications in a variety of disciplines	Python quiz 1 Python program 1 assignment
9 Oct 18-22	Python basics and control: decision making in programs	Python quiz 2 Python program 2 assignment
10 Oct 25-29	Python loops: performing repetitive tasks	Python quiz 3 Python program 3 assignment
11 Nov 1-5	Exam 2 Review Exam 2	Exam 2
12 Nov 8-12	Python Functions: breaking down problems into manageable sizes	Python quiz 4 Python program 4 assignment
13 Nov 15-20	Python files and regular expressions: societal & cultural implications of data mining, AI, and high performance computing	Python quiz 5
14 Nov 22-26	Student presentations: global & cultural issues in the digital world Thurs, Nov 25, Thanksgiving (no classes)	Student presentations
15 Nov 29-Dec 3	Student Presentations continued Review for final exam	Student presentations
Thurs Dec 9 1:00-3:00pm	Final Exam, Regular Classroom	