

HOWARD UNIVERSITY
COLLEGE OF ARTS AND SCIENCES
COMPREHENSIVE SCIENCES
FALL 2017

COURSE: Computers and Society Lc- Lb

COURSE NUMBER: COMP-004-01/02/03

PROFESSOR: Olumide Malomo

OFFICE: LKH, B-4

LECTURE ROOM: LKH, B-2

LAB ROOM: LKH, B-22

LECTURE DAY(S): T & Th

LABORATORY DAY(S): M & W

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CONFERENCE HOURS: M 3-5^{pm} & W 10-11^{am} **FASCIMILE:** (202)806-5786

DEPARTMENT WEB SITE: <http://www.comprsci.howard.edu>

TEXT: Misty E. Vermaat, Susan L. Sebok, Steven M. Freund, Jennifer T. Campbell, and Mark Frydenberg "Discovering Computers 2016: Tools, Apps, Devices, and the Impact of Technology", Cengage Learning, Boston, MA ©2016.

ISBN: 978-1-305-39185-7

Course Rationale:

Comprehensive Sciences Lecture-Laboratory courses are Life Sciences (COMP-001), Planetary Sciences (COMP-002), Physical Sciences (COMP-003) and Computer Science (COMP-004). These courses are designed among the introductory natural science course offerings. These courses are requirements in the general education curricula of the College of Arts and Sciences; The School of Business, Communications, and Education; The Divisions of Nursing and Allied Health; and Programs in the School of Engineering and Architecture. These academic units have determined the necessity of a natural science component in the schedule of courses that students must complete in order to receive a degree from the University.

Course Overview:

Computers and Society is an introductory course in computer science. Course activities include lectures, laboratory sessions, and discussions. Lecture topics include vocabulary, computer hardware and its operation, operating systems, applications, networks and computer communications, the Internet and the World Wide Web, development of information systems, Artificial Intelligence, Ethics, Security, Privacy, History, and Future directions of computers. Students will explore and discuss how these and other topics affect their lives specifically and society overall.

Laboratory is equipped with the HP AIO computer systems on a Local Area Network with the access to Internet. Introductory experience with the general use of a computer, Windows 7 operating system along with the workings of a LAN will be provided. These skills will enable students to troubleshoot the common boot up problems, network connection and security issues. Specific features of applications including Word Processing, Spreadsheet, and Presentation will be introduced using Microsoft Office 2013 suite. The emphasis will be on collaboration, use of existing data sources and formatting for the new electronic medium. Finally, web publishing will be covered from plain HTML to using modern drag and drop tools.

Course Laboratory Fees Statement:

The laboratory fee that is assessed for this course is used to supplement the expenditures for the purchase of supply items that are necessary for the maintenance of the operations of the computers (i.e. hardware, software, and peripherals) that are in the laboratory.

Americans with Disabilities Act (ADA) Procedures Statement:

Howard University is committed to providing an educational environment that is accessible to all students. In accordance with this commitment, students in need of accommodations due to a disability should contact the Office of the Dean for Special Student Services for verification and determination of reasonable accommodations as soon as possible after admission to the University, or at the beginning of each academic semester. The Dean of the Office for Special Student Services may be reached at 202-238-2420.

Statement on Interpersonal Violence:

Howard University takes sexual assault, dating violence, domestic violence, stalking and sexual harassment seriously. If a student reveals that he or she needs assistance with any of these issues, all Responsible Employees, which includes faculty, are required to share this information with the University Title IX Office (202-806-2550) or a student can be referred for confidential services to the Interpersonal Violence Prevention Program (IVPP) (202 238-2382) or University Counseling Services (202 806-6870). For more information about these services, please go to www.CampusSafetyFirst.Howard.Edu

Course Relationship to Other Comprehensive Sciences Courses:

Computer Science (COMP-004) provides technology information that augments Life sciences (COMP-001), Planetary Sciences (COMP-002), and Physical Science (COMP-003) courses.

Course Policies:

- Students must attend the lab sessions on their assigned day.
- All the exams contain only short answer type questions.
- Answer to the questions in the exam must be provided in complete sentence form, not in abbreviated, “telegram” form.
- Students are allowed to use their own notes to take the lab exams.
- Term paper topic, written report, lab exercises must be submitted on the Blackboard.
- No late work will be accepted for credit.
- No extra credit work will be given to substitute the required work.
- Regarding policy on cheating, please read “Academic Code of Conduct” published in the H-Book and the student Reference Manual and Directory of Classes.

Term Paper:

Students will complete a term paper that will be equivalent of a test. Completion of the term paper is divided into three phases. In phase one, students select a topic of their choice that is pertinent to information technology. Once the selection is made, it must be submitted to the professor by uploading on the Blackboard for feedback and approval by Monday, September 25. Following three items are required for the topic approval:

- (1) Title of the term paper (2) A brief description (3) References**

Upon the approval of the topic phase two begins in which students develop and complete their research on the approved topic. In the third and final phase, the completed work is presented to the class in the form of an oral report and a written report is submitted to the professor. The oral report is about 5 minutes long. Students are scheduled for the presentation after taking the second lecture exam. The written report should be at least 5 pages long, double line spacing, 12-point font, and 1-inch margins. Written reports are due on Monday, November 6.

Grading System:

Lecture Exam # 1	100 points
Lab Exam # 1	100 points
Lecture Exam # 2	100 points
Lab Exam # 2	100 points
Term Paper (25+50+25)	100 points
Final Exam (Departmental and Comprehensive)	100 points
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Total possible points	600

The course grade will be determined by the total points earned by the student. Point ranges for letter grades are outlined below:

GRADE	POINTS NEEDED
A	540 OR ABOVE
B	480 – 539
C	420 – 479
D	360 – 419
F	359 OR BELOW

SIGNIFICANT DATES:

Proposal for the Term paper Topic	Monday, September 25
Lab Exam 1	M/W, October 2/4
Lecture Exam 1	Thursday, October 5
Lab Exam 2	W/M, November 1/6
Lecture Exam 2	Thursday, November 2
Term Paper Final Report	Monday, November 6

Final examination will be held on Tuesday, December 5 from 1:00 – 3:00 PM. The location will be announced in the class and on the Blackboard.

HOLIDAYS:

Labor Day	Monday, September 4
Veterans' Day	Friday, November 10
Thanksgiving Recess	November 23 through November 26

OTHER:

Midterm grades, UW, & NR due in EM/records	Friday, October 22
Last day to withdraw from a course	Friday, November 3
Final Examinations for Prospective Graduates	Tuesday, November 28
Last day of classes	Thursday, November 30

Sample Keywords:

4GL	FIBER OPTICS	OCR
A/D CONVERTER	FILE COMPRESSION	OOP
ADDWARE		
ALU	FIREWALL	OPERATING SYSTEM
ANALOG	FIRMWARE	PARALLEL PORT
ARTIFICIAL INTELLIGENCE	FLAMING	PARALLEL PROCESSING
ASCII	FRAMES	PARITY BIT
ASYNCHRONOUS	FTP	PCMCIA CARD
TRANSMISSION		
AUTORECALCULATION	FUZZY LOGIC	PICOSECOND
BANDWIDTH	GATEWAY	PIXEL
BINARY SYSTEM	GROUPWARE	POP3
BIOS	GUI	PROCEDURAL/NONPROCEDURAL
		LANGUAGES
BLUETOOTH	HACKER	PHISHING
BYTE	HARD COPY	PING
CACHE	HEURISTICS	PROTOCOL
CAD/CAM	HIGH LEVEL/LOW LEVEL LANGUAGES	PSU
CA/ITS	HTML	RAID
CLI	HTTP	RAM
CLOUD COMPUTING	HTTPS	RECORD
COAXIAL CABLE	INFERENCE ENGINE	REFRESH RATE
COMMUNICATION CHANNEL	INFORMATION SUPERHIGHWAY	RELATIONAL DATABASE
COMPILER	INFRARED PORT	RISC
COMPUTER COMPETENCY	INTEGRATED SOFTWARE	ROBOTICS
COMPUTER GRAPHICS	INTERNET	ROM
COMPUTER VIRUS	INTERPRETER	SAM
COMPUTER VISION	INTRANET	SECONDARY STORAGE
CONTROL UNIT	IP	SEEK TIME
COOKIE	LAN	SERIAL PORT
CPU	LINUX	SMT
	LSICs/VLSICs	SMTP
		SSID
CYBERPHOBIA	MALWARE	SOFTWARE PIRACY
D/A CONVERTER	METAFILE	SOCIAL ENGINEERING
DAM	MICR	SOURCE CODE
DATA ENCRYPTION	MICROPROCESSOR	SYNCHRONOUS TRANSMISSION
DATABASE	MICROWAVES	SYSTEM UNIT
DBMS	MINI COMPUTER SYSTEM	TCP/IP
DEBUGGING	MIPS	TOPOLOGY
DIGITAL	MIS	TRANSISTOR
DOT MATRIX	MODEM	TURING TEST
DOT PITCH	MULTIMEDIA	TWISTED PAIR WIRE
DSS	MULTITASKING	UNICODE
EBCDIC	MULTITHREADING	URL
ENCAPSULATION	NANOSECOND	USB
ETHERNET	NETIQUETTE	VIRUS
		VPN
		VIRTUALIZATION
ERGONOMICS	NEURAL NETWORKS	WAN
EXPERT SYSTEMS	NIC	WLAN
FAQ	OBJECT CODE	WORD
FAULT TOLERANT SYSTEM	Open Source	WYSIWYG