

HOWARD UNIVERSITY
COLLEGE OF ARTS AND SCIENCES
COMPREHENSIVE SCIENCES
Spring 2014

COURSE: Computers and Society Lc- Lb

PROFESSOR: Dr. Danny A. Harris

OFFICE: N/A

LECTURE ROOM: B2

LAB ROOM: B22

LECTURE DAY(S): Thursday

LABORATORY DAY(S): Tuesday

OFFICE TELEPHONE: N/A

E-MAIL: eldharris1@gmail.com

CONFERENCE HOURS: 4:3-5:00 and 7 - 7:30 T/Th **FASCIMILE:** (202)806-5786

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

TEXT: Catherine Laberta "Computers are your Future ", Complete 12th Edition, Prentice Hall, New Jersey, 2011.

OTHER MATERIAL: External storage device such as a USB disk.

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 material will cover Vocabulary, Applications, Implications, Communications and Networks, History, and Future directions of computers. Assigned reading will be on the computer's impact on numerous aspects of society. Students will explore and discuss how these and other topics affect their lives specifically and society overall.

Laboratory is equipped with the Dell computer systems on a Local Area Network with the access to Internet. Introductory experience with the general use of a computer, Windows operating system along with the workings of a LAN will be provided. Applications such as Word Processing, Spreadsheet, Presentation, and Web Publishing will be introduced using Microsoft Office suite.

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, Dr. Barbara Williams, may be reached at 202-238.2420.

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, *etc.* must be done on a Word processor.
- No late work will be accepted for credit.
- No make-up exam(s) will be given.
- 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.
- All the policies will be enforced without any exceptions.

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 for feedback and approval by -----
----- 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 usually 5-7 minutes long. Students will be scheduled for the presentation before Thanksgiving recess. 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 -----

GRADING SYSTEM:

Two intra session lecture exams (100 points each)	200 points
Two lab exams (100 points each)	200 points
Term Paper (25+50+25)	100 points
Final Exam (Departmental and Comprehensive)	100 points

Gross Total possible points	600
Drop one of the lowest test score	- 100
	=====
Net Total possible points	500

Net total points earned by the student will determine the course grade. Point ranges for letter grades are outlined below:

GRADE	POINTS NEEDED
A	450 OR ABOVE
B	400 – 449
C	350 – 399
D	300 – 349
F	299 OR BELOW

Final examination will be held on TBD (the location is subject to change).

HOLIDAYS:

Martin Luther King, Jr.'s Birthday	Monday, January 20
President's Day	Monday, February 17
Spring Recess	March 8 through March 16

KEYWORDS:

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