

HOWARD UNIVERSITY
COLLEGE OF ARTS AND SCIENCES
COMPREHENSIVE SCIENCES
Fall 2017

COURSE: Computers and Society Lc- Lb

COURSE NUMBER: COMP-004

PROFESSOR:

OFFICE: N/A

LECTURE ROOM: B2

LAB ROOM: B22

LECTURE DAY(S):

LABORATORY DAY(S):

OFFICE TELEPHONE: N/A

E-MAIL:

CONFERENCE HOURS:

FASCIMILE: (202)806-5786

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

TEXT: Discovering Computers 2016, Vermaat/Sebok/Freund/Campbell/Frydenberg

OTHER MATERIAL: N/A

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, Database, 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.

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, 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. The written report should be at least 5 pages long, double line spacing, 12-point font, and 1-inch margins. 5 References are required for the final paper.

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
	=====

Net total points earned by the student will determine the course grade. 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:

Lab Exam 1	Sept 21
Abstract for Term paper Due	Sept 21
Lecture Exam 1	Oct 3
Lab Exam 2	Nov 9
Lecture Exam 2	Nov 16
Senior's Final Exam & Senior Term Papers Due	Nov 28
Term Paper Report/Presentations	Nov 30
Final Exam	TBD

Final examination will be held on Tuesday, December 5, 2017 (the location is subject to change).

HOLIDAYS:

Thanksgiving Break Nov 23 – 26

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