SU DEPARTMENT OF COMPUTER SCIENCE SYLLABUS (Tentative)
COSC 456 Computer Architecture

Objectives: To study the organization and internal composition of advanced computer systems.

Prerequisites: COSC 220 and COSC 250.

Texts: "Computer Architecture Class Notes and Lab Manual," by Dean DeFino and Asif Shakur; 2006. (Available only through SU's Bookstore)
"Fundamentals of Digital Logic and Microcomputer Design," by M. Rafiquzzaman; Wiley Interscience Publishing, Fifth edition, 2005. (Optional)

	Weeks
PART I: Overview of the Computer System	2
Introduction to Computer Systems, Microcomputer Organization Review, Addressing Codes.	
PART II: Assembly Language	6
Instruction formats, Assembly Language Instruction Sets, Assembler Labs in Assembly language.	
PART III: The Central Processing Unit	3
Data R4 p4 s S4 ntan8 nsuc204 tslgcn8 rlcn8 c0.t4 s Scn8 rlm4 s San8 nm4 lin4n 174 nrlcn8 l Unit Operation	
PART IV: Memory, I/O	2
Memory Systems, Cache Memory Organization, I/O.	
Tests and Oral Presentations and Optional Topics	1
	14

EVALUATION

Homework and presentations	30%
Tests	55%
Lab	15%

GXF/jlh 6/2021