
COURSE OUTLINE
COSC 2315-001
COMPUTER ORGANIZATION
Fall 2019

M-W-F 11:15 – 12:10 PM
COB 211

Instructor: Arun Kulkarni, Ph.D., Professor of Computer Science

Office: RBN 3015

Office Hours: T-R 11:00-12:30 PM

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Course Description: Introduces the concept of computers and information systems by presenting the process of computation as a hierarchy of virtual machines, beginning with the hardware and moving upward through various levels of increasingly sophisticated software. Prerequisites: COSC 1336/1136, MATH 1314, 1324 or 2330.

Textbook: Linda Null and Julia Lobur (2018) Computer Organization and Architecture. Fifth Edition, Jones and Bartlett, Burlington, MA.

Additional Book: Andrew S. Tanenbaum (2012). Structured Computer Organization. Pearson Prentice Hall, Upper Saddle River, NJ. Sixth Edition

Topics and tentative time allotment are shown below.

	Topic	Hours
1	Structured Computer Organization	2
2	Milestones in Computer Architecture and Example Computer Families	2
3	Number Systems	9
4	Boolean Algebra and Digital logic	6
6	Instruction set Architecture Level	1
7	Assembly Language Level	3
8	Operating System Level	3
9	Parallel Computer Architectures	6
10	Memory	6
11	Input/Output and Storage	6

		Evaluation
Test 1	Friday (9/27)	50 %
Test 2	Wednesday (10/30)	
Final Exam	TBA	25 %
Class Participation		5 %
Assignments		20%

Academic Dishonesty: You are expected to do your own work. You may assist each other with general concepts, but direct assistance with a particular assignment or any attempts to gain an unfair academic advantage will not be tolerated. Cheating is considered a serious academic offense both by the department and the University. It may result in a failing grade from this course for all parties involved. If you have questions about the line between assistance and cheating, discuss it with your instructor. The instructor reserves the right to assign any assignment that you turn in to judge if the work is actually yours.

Disabilities: If you have a disability, including a learning disability, for which you request an accommodation, please contact the Disability Support Services office so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodation must provide documentation of his/her disability to the Disability Support Services counselor. For more information, call or visit the Student Services Center located in the University Center, Room 282. The telephone number is 566-7079 (TDD 565-5579).