SU Department of Mathematics & Computer Science
Syllabus (Tentative)
COSC 116 *Introduction to Computer Systems*

Description: A study of the fundamentals of computer use; how it works, data communications and the Internet, spreadsheets, databases, presentation and multimedia applications, program design and implementation, and fundamental computing theories.

Prerequisites: None.

Texts: "Computer Science Illuminated" by Nell Dale and John Lewis, Jones & Bartlett Publishing, Sixth Edition, ISBN: 9781284055917".

	Weeks
1 Introduction to Computers An overview of computers & introduction to presentation software	1.0
2 Hardware Principles An overview of the hardware components including the central processing unit, data representation, input/output devices, memory and storage and networks. web page design & implementation and spreadsheets.	6.0
3 Software Principles & Network Design Fundamental programming instructions, languages, object-oriented programming using an object-oriented language and operating systems	5.0
4 Networks and Social Issues Network design, artificial intelligence, ethical issues, security and career options	1.0
Testing	<u>1.0</u>
	14.0

EVALUATION
Tests/Projects/Homework 60-90%
Labs 10-40%

NOTE: ONCE A STUDENT HAS RECEIVED CREDIT, INCLUDING TRANSFER CREDIT, FOR A COURSE, CREDIT MAY NOT BE RECEIVED FOR ANY COURSE WITH MATERIAL THAT IS EQUIVALENT TO IT OR IS A PREREQUISITE FOR IT.