

Computer Science and Information Systems
TEXAS A&M UNIVERSITY-Commerce

Study Guide for Computer Organization / Assembly Language
CSci516 Qualifying Examination
Fall 2005

The Computer Organization / Assembly Language (CSCI-516) course was designed to give non-computer science students a minimal background in how a computer is organized and how it functions. Before pursuing a MS in Computer Science, all students without a BS in Computer Science from Texas A & M University Commerce are required to complete one of the following:

1. Complete the CSCI-516 course with a grade of B or better.
2. Complete the Computer Organization / Assembly Language Qualifying examination with a passing grade, which is 80% - B.

If you do not have the required background, save yourself and us time and work; just take CSCI-516 - You will not be able to pass this examination. If you do have a Computer Science background, this document is intended to aid you in preparing for the examination.

This examination is based primarily on Intel 8086 microprocessor. It will test your knowledge of both the chip's basic design and your proficiency at using the 8086 assembly language. The examination will also cover a number other basic computer concepts. The following topics may be covered on the examination:

1. Conversion of numbers (both signed and unsigned) from one base to another. The bases covered could be decimal, hexadecimal, binary, and octal. Also know how to convert a decimal number into Intel's short floating point format.
2. Performing logical operations on binary numbers. The logical operations include AND, OR, XOR, NOT, NAND, NOR, and NXOR.
3. You should know the stack operation. This includes its use with both near and far calls, and the use of the PUSH and POP instructions. Also know how parameters are passed through the stack, both by value and by reference. Know how to use a "Stack Frame" to retrieve the parameters. Also know how to clear the parameters from the stack when you return. Definition of variables.
4. 8086 CPU functions for service of an interrupt.
5. Given a high level language segment (in C) and / or a pseudo-code definition, you will be asked to write a assembly language procedure or short assembly language segment to perform the same function.
6. Know how to start and end a procedure. Also know the rules for saving and restoring registers when you enter and leave a procedure.

Csci Computer Concepts Study Guide

Kathleen Armour



Csci Computer Concepts Study Guide:

The Enigmatic Realm of **Csci Computer Concepts Study Guide**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Csci Computer Concepts Study Guide** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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