Overview

Computer Architecture introduces students to concepts and characteristics of organization and architecture applied to modern computer systems, including performance, processor, memory, I/O, and multiprocessors to optimize system design, performance, and efficiency.

Competencies

- **Computer Architecture**
  The graduate evaluates characteristics of computer architecture to meet business objectives.

- **Operating Systems**
  The graduate analyzes the purpose and function of the operating system and how it interacts with the computer architecture.

- **Hardware and Software Interaction**
  The graduate evaluates performance of hardware and software interaction to maximize system capabilities.

- **Computer Architecture Design**
  The graduate assesses the impacts of hardware and software design choices (i.e., cost, performance, optimization techniques, power consumption, size, compatibility, etc.) to improve quality and capabilities.

- **Information System Solutions**
  The graduate analyzes computer architecture choices affecting information system solutions in order to effectively communicate and apply design considerations within an organization.

Learning

Getting Started

Welcome to Computer Architecture! This course uses the Zybooks learning resource which contains all the necessary reading materials, videos, and knowledge checks to prepare you for the course assessment. In order to gain the best understanding of the course content, complete each assigned lesson. To help you track your progress, follow the pacing guide identified at the beginning of the course.

Your competence will be demonstrated by the successful completion of an objective assessment. Select the “Go to Course Material” button to begin.

Assessments

- **Pre-Assessment: Computer Architecture (GKO1)**
  Status: Not Attempted
  # of Items: 0
  Time Allocated: 0 minutes
  Code: PGKO

- **Objective Assessment: Computer Architecture**
  Status: Not Attempted
  # of Items: 0
  Time Allocated: 0 minutes
  Code: GKO1

A score of Competent or Exemplary is required to pass all assessments. Passing a preassessment does not guarantee you will pass the high-stakes assessment.

On objective assessments, you will be charged a retake fee for the third attempt and every attempt thereafter. For more information, click here.