MFT

Class 2
MFT Information

- http://testing.truman.edu/senior-testing/

This semester's tests will be held at 6 pm: January 27 through February 3. See testing.truman.edu for schedule.
MFT Information

- http://testing.truman.edu/senior-testing/

- This semester’s tests will be held at 6 pm:
  - January 27 through February 3.
  - See testing.truman.edu for schedule
MFT Information

- http://testing.truman.edu/senior-testing/

- This semester’s tests will be held at 6 pm:
  - January 27 through February 3.
  - See testing.truman.edu for schedule

- https://www.ets.org/mft/about/content/computer_science
Computer Science Curricula 2013

Curriculum Guidelines for Undergraduate Degree Programs in Computer Science

December 20, 2013

The Joint Task Force on Computing Curricula
Association for Computing Machinery (ACM)
IEEE Computer Society
Biggest Areas

- 14% Software Development
- 13% Discrete Structures
- 9% Algorithms and Complexity
- 9% Programming Languages
- 9% Software Engineering
- 9% Systems Fundamentals

- 63% Total
Systems Areas

- 5% Architecture and Organization
- 3% Networking and Communication
- 5% Operating Systems
- 9% Systems Fundamentals

- 22% Total
Architecture and Organization

- Digital Logic and Digital Systems
- Machine Level Representation of Data
- Assembly Level Machine Organization
- Memory System Organization and Architecture
- Interfacing and Communication
- Functional Organization
- Multiprocessing and Alternative Architectures
- Performance Enhancements
Networking and Communication

- Introduction
- Networked Applications
- Reliable Data Delivery
- Routing And Forwarding
- Local Area Networks
- Resource Allocation
- Mobility
- Social Networking
Operating Systems

- Overview of Operating Systems
- Operating System Principles
- Concurrency
- Scheduling and Dispatch
- Memory Management
- Security and Protection
- Virtual Machines
- Device Management
- File Systems
- Real Time and Embedded Systems
- Fault Tolerance
- System Performance Evaluation
Systems Fundamentals

- Computational Paradigms
- Cross-Layer Communications
- State and State Machines
- Parallelism
- Evaluation
- Resource Allocation and Scheduling
- Proximity
- Virtualization and Isolation
- Reliability through Redundancy
- Quantitative Evaluation