

TCN-5030 Computer Communications and Networking Technologies

Catalog Description

Teaches the dynamics related to computer communications, how computers are grouped together to form networks, various networking implementation strategies, and current technologies. (3 credits)

Prerequisites

SCIS Graduate Standing

Type

Required for MSTN

Course Objectives

This course provides an introduction to the concepts and principles of computer communications and networks. Students will understand the architectures, protocols, and techniques in different layers of the Internet protocol stack. In addition, students will learn fundamental network programming and analyzing skills.

Topics

Introduction
Application Layer
Transport Layer
Network Layer
Link Layer and Local Area Networks
Multimedia Networking
Network Management

Textbook

James Kurose and Keith Ross, Computer Networking: A Top Down Approach (6th Edition), Addison-Wesley, 2012.

Larry Peterson and Bruce Davie, Computer Networks: A Systems Approach (5th Edition), Morgan Kaufmann, 2011.

Andrew Tanenbaum, Computer Networks (5th Edition), Prentice Hall, 2011.

Last Update

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