IT 4153: Advanced Database

3 Credit Hours

Prerequisite: CSE 3153 or CS 3410

This course will study how databases are used with programming applications. Topics include advanced PL/SQL (or similar database programming language), database transaction, database security, database maintenance, and distributed and web databases.

IT 4323: Data Communications & Networking

3 Credit Hours

Prerequisite: IT 3123 or (CS 3503)

Fundamental concepts of computer networking include topics such as properties of signals and media, information encoding, error detection and recovery, LANs, backbones, WANs, network topologies, routing, Internet protocols, and security issues. The focus is on general concepts together with their application to support the business enterprise.

IT 4333: Network Configuration & Administration

3 Credit Hours

Prerequisite: IT 4323 or ECET 3400 or CS 4622

This course continues the study of networks. Topics include design and implementation of networks including synchronization, scheduling, exception and deadlock resolution, client server and web based collaborative systems. Network security will also be covered. Cost estimates and speed are examined from a management perspective.

IT 4400: Directed Studies

1–3 Credit Hours

Prerequisite: Approval of the instructor and department chair

This course covers special topics of an advanced nature that are not in the regular course offerings. Students will complete a research project in the computing field supervised by a faculty member. Credit hours vary from one to three depending on the nature and content of the project student involved. Up to three credits may be applied to the major area.