

## IST - INTEGRATED SYSTEMS TECH (IST)

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### **IST 150 Project Management Essentials for IT Professionals 3 SHC**

This course is the study of integrated project management for computer technology professionals with emphasis on the methods and software used by IT professionals, including task lists, Gantt charts, discussion of critical path statistical resource management, scheduling, budgeting, and economic factors.

Prerequisites: IST 220.

Lecture Hours: 3

Lab/Clinical Hours: 0

### **IST 220 Data Communications 3 SHC**

This course is a study of the fundamentals of data communications. Basic signaling, networking and various transmission media are covered.

Lecture Hours: 3

Lab/Clinical Hours: 0

### **IST 226 Internet Programming 3 SHC**

This course covers designing internet pages and applications for personal/business use, writing the required program code in languages such as HTML, Java and VRML, testing and debugging programs, uploading and maintaining internet pages and applications.

Lecture Hours: 3

Lab/Clinical Hours: 0

### **IST 241 Network Architecture I 3 SHC**

This course is a study of how the computer architecture relates to the interconnecting of the various network components, the environment in which the applications processes execute, and the overall plan defining services to be provided in a distributed environment.

Prerequisites: IST 257.

Lecture Hours: 3

Lab/Clinical Hours: 0

### **IST 253 LAN Service and Support 3 SHC**

This course focuses on installing, maintaining and troubleshooting local area networks in a lab environment.

Prerequisites: IST 220.

Lecture Hours: 3

Lab/Clinical Hours: 0

### **IST 256 LAN Desktop Technologies 3 SHC**

This course is a study of desktop operating system technologies including desktop operating system software installation, configuration and trouble-shooting and network connectivity requirements. The course also covers administration functions including local user account maintenance, security, data backup and recovery.

Prerequisites: IST 220.

Lecture Hours: 3

Lab/Clinical Hours: 0

### **IST 257 LAN Network Server Technologies 3 SHC**

This course is a study of network operating system technologies including network operating system architecture, the installation, configuration, monitoring and troubleshooting of network resources, and network administration functions such as user/group maintenance, network security, print services, remote access, fault tolerance, backup and recovery.

Prerequisites: IST 220.

Lecture Hours: 3

Lab/Clinical Hours: 0

### **IST 268 Computer Forensics 3 SHC**

This course provides students with a foundational knowledge in computer forensics investigation. Students are introduced to the skills, tools, and methods used to gather, document, and handle electronic evidence.

Prerequisites: IST 220.

Lecture Hours: 3

Lab/Clinical Hours: 0

### **IST 269 Digital Forensics 3 SHC**

This course examines advanced technical aspects of digital computer evidence to include detection, collection, identification, and preservation. Emphasis is placed on specific tools and methods for extracting deleted or destroyed computer-related evidence.

Prerequisites: IST 220

Lecture Hours: 3

Lab/Clinical Hours: 0

### **IST 270 Client/Server Systems 3 SHC**

This course emphasizes the use of case tools coupled with client tools to allow RAD and prototyping of client applications. Networking and server concepts will be explored. Case studies of existing client/server systems will be used to examine the various phases of client/server applications.

Prerequisites: IST 256.

Lecture Hours: 3

Lab/Clinical Hours: 0

### **IST 281 Presentation Graphics 3 SHC**

This course covers the state-of-the-art presentation graphics software packages.

Lecture Hours: 3

Lab/Clinical Hours: 0

### **IST 293 IT and Data Assurance I 3 SHC**

This course introduces the basics of network security. Topics covered will include network vulnerabilities and threats, security planning, security technology, network security organization, as well as legal and ethical issues related to network security.

Prerequisites: IST 220.

Lecture Hours: 3

Lab/Clinical Hours: 0

### **IST 294 IT and Data Assurance II 3 SHC**

This course introduces methods for attacking a network. Concepts, principles, tools, and techniques for attacking and disabling a network will be covered in the context of understanding how to properly secure a network as a network administrator.

Prerequisites: IST 293.

Lecture Hours: 3

Lab/Clinical Hours: 0