

## CPT — Computer & Info Systems

### **CPT 114 Computers and Programming 2-3-3**

This course introduces computer concepts and programming. Topics include basic concepts of computer architecture, files, memory, and input/output devices. Programming is done in a modern high-level language.

### **CPT 119 Computing & Online Learning Fu 2-3-3**

This course is a study of fundamental computing and online learning tools. Emphasis is placed on PC operation, use of peripherals, file management, and proper computer terminology. Topics will also include an introduction to basic office management software and Internet resources.

### **CPT 162 Intro to Web Page Publishing 2-3-3**

**Prerequisites:** ( *IST 226 and CPT 187* )

This course is a study of the fundamentals of web page design and implementation.

### **CPT 168 Programming Logic and Design 2-3-3**

This course examines problem-solving techniques applied to program design. Topics include a variety of documentation techniques as means of solution presentation.

### **CPT 187 Object-Oriented Logic & Design 2-3-3**

**Prerequisites:** *CPT 168*

This is a study in the planning and implementation of object-oriented programs.

### **CPT 208 Special Topics in Comp Tech 2-3-3**

**Corequisites:** *IST 269*

This course focuses on changes in computer technology.

### **CPT 230 C# Programming I 2-3-3**

**Prerequisites:** *CPT 187*

This course introduces designing, coding, testing and debugging C# programs. Topics include procedural, functional and object oriented techniques; programming; IDEs; .NET; processing data; data types; I/O; decision processing; control structures; modularized coding with methods; and arrays.

### **CPT 231 C# Programming II 2-3-3**

**Prerequisites:** *IST 271*

This course focuses on advanced programming concepts for C#. Topics include advanced string and character processing, user defined classes and advanced .NET, multiform projects, inheritance and polymorphism, database processing, exception handling, and GUIs with Windows Forms.

### **CPT 240 Internet Prog with Databases 2-3-3**

**Prerequisites:** ( *CPT 162* )

**Corequisites:** *CPT 262, CPT 264*

This course is a study of the implementation of dynamic web pages focusing on the development of web sites that interact with databases utilizing current server-side technologies along with the databases to deliver dynamic content to client browser.

### **CPT 242 Database 2-3-3**

**Prerequisites:** *IST 192*

This course introduces database models and the fundamentals of database design. Topics include data base structure, database processing, and application programs which access a database.

### **CPT 262 Advanced Web Page Publishing 2-3-3**

**Prerequisites:** *and CPT 242*

**Corequisites:** *CPT 240, CPT 264*

This course is a study of advanced techniques in web page design and implementation.

### **CPT 264 Systems and Procedures 2-3-3**

**Prerequisites:** ( )

**Corequisites:** *CPT 262, IST 261*

This course covers the techniques of system analysis, design, development, and implementation.

### **CPT 278 Computer Software Applications 2-3-3**

This course is designed to guide the student from beginner to advanced in spreadsheets, databases and word processing.

### **CPT 280 SCWE in Computer Technology 0-12-3**

**Prerequisites:** *IST 190*

This course integrates computer technology skills within an approved work site related to the computer industry.

### **CPT 282 Info Systems Security 2-3-3**

This course is the study of the protection of information and equipment in computer systems. Topics include all aspects of systems protection, including physical security, hardware, software and communications security. Addresses technical, legal and ethical issues.