

# COMPUTER INFO TECH (ITSE)

## **ITSE 1302 Computer Programming 3 Credits (2 Lec, 2 Lab)**

This course is an introduction to computer programming including design, development, testing, implementation, and documentation.  
Course Type: Technical

## **ITSE 1307 Introduction to C++ Programming 3 Credits (2 Lec, 2 Lab)**

This course is an introduction to computer programming using C++. Emphasis on the fundamentals of object-oriented design with development, testing, implementation, and documentation. Includes language syntax, data and file structures, input/output devices, and files.  
Course Type: Technical

## **ITSE 1329 Programming Logic and Design 3 Credits (3 Lec, 1 Lab)**

This course covers problem-solving, applying structured techniques, and representation of algorithms using design tools. Includes testing, evaluation, and documentation. Topics may adapt to changes in industry practices.  
Course Type: Technical

## **ITSE 1331 Introduction to Visual BASIC Programming 3 Credits (2 Lec, 2 Lab)**

This course is an introduction to computer programming using Visual Basic. Emphasizes the fundamentals of structured design, development, testing, implementation, and documentation. Includes language syntax, data and file structures, input/output devices, and files.  
Course Type: Technical

## **ITSE 1333 Mobile Applications Development 3 Credits (2 Lec, 2 Lab)**

This course is an overview of different mobile platforms and their development environments.  
Prerequisite(s): ITSC 1319, ITSE 1359

Course Type: Technical

## **ITSE 1345 Introduction to Oracle SQL 3 Credits (2 Lec, 2 Lab)**

This course is an introduction to the design and creation of relational databases using Oracle. Topics include storing, retrieving, updating, and displaying data using Structured Query Language (SQL).  
Prerequisite(s): ITSW 1307

Course Type: Technical

## **ITSE 1359 Introduction to Scripting Languages 3 Credits (2 Lec, 2 Lab)**

This course is an introduction to scripting languages including basic data types, control structures, regular expressions, input/output, and textual analysis. Topics may adapt to changes in industry practices.  
Prerequisite(s): ITSE 1329 or Department Chair approval

Course Type: Technical

## **ITSE 2309 Database Programming 3 Credits (2 Lec, 2 Lab)**

This course covers database development using database programming techniques emphasizing database structures, modeling, and database access.  
Prerequisite(s): ITSW 1307 or department chair approval

Course Type: Technical

## **ITSE 2313 Web Authoring 3 Credits (2 Lec, 2 Lab)**

This course provides instruction in designing and developing Web pages that incorporate text, graphics, and other supporting elements using current technologies and authoring tools.  
Prerequisite(s): ITSC 1319 or Department Chair approval

Course Type: Technical

## **ITSE 2317 Java Programming 3 Credits (2 Lec, 2 Lab)**

This course covers Java programming for applications and web applets.  
Prerequisite(s): ITSE 1307 or Department Chair approval

Course Type: Technical

## **ITSE 2321 Object-Oriented Programming 3 Credits (2 Lec, 2 Lab)**

This course covers program design with classes, including development, testing, implementation, and documentation.  
Prerequisite(s): ITSE 1302 or Department Chair approval

Course Type: Technical

## **ITSE 2331 Advanced C++ Programming 3 Credits (2 Lec, 2 Lab)**

This course covers C++ programming techniques including file access, abstract data structures, class inheritance, and other advanced techniques.  
Prerequisite(s): ITSE 1307 or Department Chair approval

Course Type: Technical

## **ITSE 2359 Advanced Computer Programming 3 Credits (2 Lec, 2 Lab)**

This course covers advanced programming techniques including file access methods, data structures, modular programming, program testing, and documentation.  
Prerequisite(s): ITSE 1302 or Department Chair approval

Course Type: Technical