

CIS 253 - Application Development Tools

5.0 Credits

An introduction to application development using MS-Access. Includes development of tables, forms, queries, reports, macros, and menus needed to support the application. This course is a prerequisite for CIS 234. Prerequisite: [CIS 250](#) and [CS 115](#) (was CMPSC 115) or concurrent enrollment in both, with minimum grades of 3.0 or equivalent.

Course Objectives

Upon successful completion of this course, students will be able to:

1. Explain the fundamental principles of application design [COMMUNICATE]
2. Use MS Access to build a student designed application. [REASON]
3. Describe how Access integrates with enterprise systems. [COMMUNICATE]
4. Given a database design and a few pre-built entities, build the following components of an Access application: Tables to store data; Forms and sub-forms for data entry into tables; Reports that display data in appropriate groups and formatting; Queries that assemble data from several tables for use with forms and reports; HTML Documents created from custom queries and exported to the Web; Modules and Event Procedures with VBA code to accomplish specific tasks; Menus for easy access to the various parts of the application. [REASON]