

COMPUTER INFORMATION SYSTEMS: DATABASE (CISD)

CISD 11 Database Management - Microsoft Access

3 Units (Degree Applicable, CSU)

Lecture: 54

Corequisite: CISD 11L

Advisory: CISB 15 or CISB 11

Design, creation, and management of relational databases using Microsoft Access. Basic database design, creation of tables, queries, forms, reports, and macros. Creation of custom graphical user interface and introduction to Visual Basic for Applications (VBA) code.

Course Schedule

CISD 11L Database Management - Microsoft Access Laboratory

0.5 Units (Degree Applicable, CSU)

Lab: 27

Corequisite: CISD 11

Laboratory for CISD 11 - Database Management - Microsoft Access. Exercises focusing on design and development of a business database using Microsoft Access software, including creation of tables and relationships between tables, queries, forms, reports, macros, and an introduction to Visual Basics for Applications (VBA) programming language to make a fully-functioning, user-friendly Access database.

Course Schedule

CISD 14 VBA for Excel and Access

3 Units (Degree Applicable)

Lecture: 54

Corequisite: CISD 14L

Advisory: CISD 11 and CISB 21

Excel and Access programming using Visual Basic for Applications (VBA) programming language for business applications. Event-driven programming, Excel and Access Object Models, ActiveX Data Objects model (ADO), VBA structures, arrays, embedded SQL (Structured Query Language) into Access VBA, and error-handling.

Course Schedule

CISD 14L Visual Basic for Applications (VBA) Excel and Access Lab

0.5 Units (Degree Applicable)

Lab: 27

Corequisite: CISD 14

Laboratory component for the CISD 14 course. Visual Basic for Applications (VBA) programming language exercises in both Excel and Access applications. Uses the structures learned in the CISD 14 course, including decision statements, looping, array manipulation, and error-handling. Use the Excel and Access Object Models and the ActiveX Data Objects model in programming projects.

Course Schedule

CISD 21 Database Management - Microsoft SQL Server

3 Units (Degree Applicable, CSU)

Lecture: 54

Corequisite: CISD 21L

Advisory: CISB 11 or CISB 15

Structured Query Language (SQL) and Transact-SQL for Microsoft SQL Server. Topics include creating database objects, retrieving and updating data, writing scripts, developing stored procedures and functions, developing triggers, and creating cursors. Student must be enrolled in CISD 21L, a concurrent lab co-requisite.

Course Schedule

CISD 21L Database Management - Microsoft SQL Server Laboratory

0.5 Units (Degree Applicable, CSU)

Lab: 27

Corequisite: CISD 21

Laboratory for CISD 21 - Structured Query Language (SQL) and Transact-SQL for Microsoft SQL Server. Topics include creating database objects, retrieving and updating data, writing scripts, developing stored procedures, functions, triggers, and creating cursors. Student must be enrolled in CISD 21, a concurrent lecture co-requisite.

Course Schedule

CISD 31 Database Management - Oracle

3 Units (Degree Applicable, CSU)

Lecture: 54

Corequisite: CISD 31L

Advisory: CISB 11 or CISB 15

Oracle database management system (DBMS) functions, concepts, and terms. Procedure Language/Structure Query Language (PL/SQL) is used to code, test, and implement stored procedures, functions, triggers, and packages. Relational database projects will be built using PL/SQL. Concurrent enrollment in CISD 31L is required.

Course Schedule

CISD 31L Database Management - Oracle Laboratory

0.5 Units (Degree Applicable, CSU)

Lab: 27

Corequisite: CISD 31

Laboratory for CISD 31 - Oracle database management system (DBMS) functions, concepts, and terms. Procedure Language/Structured Query Language (PL/SQL) is used to code, test, and implement stored procedures, functions, triggers, and packages. Relational database projects will be built using PL/SQL. Concurrent enrollment in CISD 31 is required.

Course Schedule

CISD 40 Database Design

3 Units (Degree Applicable, CSU)

Lecture: 54

Advisory: CISD 11 and CISD 11L

Database design principles. Understanding database needs and functions; creating data models, entity-relationship (E-R), and Unified Modeling Language (UML) diagrams; using normalization rules and principles to create databases; learning basic database administrator objectives and tasks; and understanding the role of data warehousing and data mining.

Course Schedule