

Computer Science - Database Emphasis

Associate in Applied Science

Minimum of 62 Credits

A database is used by an organization to store and maintain data in an organized way. Knowledge about database has become increasingly important in computer science education. There is also a shortage in industry employment for database related positions. The Database Emphasis enables students to develop skills related to creating, supporting, and maintaining a database. The program is designed to prepare students for entry level positions such as database administrators, database analysts, database application developers or database programmers.

Course #	Course Name	Credits	Type	Prerequisites
<i>Suggested Freshman 1st Semester</i>				
SCL 1001	SUCCESS IN COLLEGE AND LIFE	1	Life Skills	None
CS 1103	(1)(C) INTRODUCTION TO COMPUTERS AND APPLICATIONS	3	Major	(R)
CS 1143	(C) BEGINNING PROGRAMMING	3	Major	(R) (W) (M) or Evaluation by Instructor
CS 1333	(C) DATABASE MANAGEMENT APPLICATIONS	3	Major	(R)
ENGL 1113	ENGLISH COMPOSITION I	3	Gen Ed	(R) (W), Adequate reading and writing assessment scores or LS 0033 College Writing II, either taken within the last year, with strong encouragement for immediate continuation.
MATH 1503	CONTEMPORARY MATHEMATICS	3	Gen Ed	(R) (W), MATH 0123 or adequate Math Placement Test Score, either within the last year.
<i>Suggested Freshman 2nd Semester</i>				
CS 1353	(2)(C) INTRODUCTION TO OPERATING SYSTEMS AND HARDWARE	3	Major	(R) (W) (M), CS 1103
CS 2163	(C) JAVA --OR--		Major	(R) (W) (M), CS 1143 or Evaluation by Instructor
CS 2453	(C) VISUAL BASIC	3	Major	(R) (W) (M), CS 1143 or Evaluation by Instructor
CS 2173	(C) ORACLE	3	Major	(R) (W) (M), CS 1143 or Evaluation by Instructor
CS 2183	(C) LINUX	3	Major	(R) CS 1143 or Evaluation by Instructor
PHYS 1014	PHYSICAL SCIENCE	4	Gen Ed	(R) (W) (M)
<i>Suggested Sophomore 1st Semester</i>				
CS 2503	(3)(C) NETWORK ADMINISTRATION	3	Major	(R) (W) (M), CS 1353 or Evaluation by Instructor
CS 2463	(C) ADVANCED JAVA --OR--		Major	(R) (W) (M), CS 2163 or Evaluation by Instructor
CS 2553	(C) ADVANCED VISUAL BASIC --OR--		Major	(R) (W) (M), CS 2453 or Evaluation by Instructor
CS 2563	(C) C#.NET	3	Major	(R) (W) (M), CS 2163 or Evaluation by Instructor
CS 2443	(C) SQL SERVER	3	Major	(R) (W) (M), CS 1143 or Evaluation by Instructor
POLSC 1113	AMERICAN FEDERAL GOVERNMENT	3	Gen Ed	(R) (W)
CS 2223	(C) SYSTEMS ANALYSIS AND DESIGN	3	Major	(R) (W) (M), ENGL 1113 and a 2000 level programming language or Evaluation by Instructor
<i>Suggested Sophomore 2nd Semester</i>				
CS 2713	(C) PRINCIPLES OF INFORMATION SECURITY	3	Major	(R) (W) (M)
CS 2573	(C) ORACLE DATABASE ADMINISTRATION	3	Major	(R) (W) (M) CS 2173 or CS 2443 or Evaluation by Instructor
HIST 1483	U.S. HISTORY TO THE CIVIL WAR --OR--		Gen Ed	(R) (W)
HIST 1493	U.S. HISTORY SINCE THE CIVIL WAR	3	Gen Ed	(R) (W)
ENGL 1213	ENGLISH COMPOSITION II --OR--		Gen Ed	(R) (W), ENGL 1113 English Composition I taken within the last year, with strong encouragement for immediate continuation.
ENGL 1233	REPORT WRITING --OR		Gen Ed	(R) (W), ENGL 1113 English Composition I
COM 1123	INTERPERSONAL COMMUNICATIONS --OR--		Gen Ed	(R) (W)
COM 2213	INTRO TO PUBLIC SPEAKING	3	Gen Ed	(R)
CS	(C) COMPUTER SCIENCE ELECTIVE	3	Major	

Major Courses: (42 Credit Hours) (C)(1)CS 1103; (C)CS 1143; (C)CS 1333; (C)(2)CS 1353; (C)CS 2163 or (C)CS 2453; (C)CS 2173; (C)CS 2183; (C)CS 2223; (C)CS 2443; (C)CS 2503; (C)CS 2573; (C)CS 2463 or (C)CS 2553 or (C)CS 2563; (C)CS 2713; (C)Three credit hours of Computer Science electives

General Education Courses: (19 Credit Hours) English: ENGL 1113; ENGL 1213 or ENGL 1233 or COM 1123 or COM 2213; History: HIST 1483 or HIST 1493; Mathematics: MATH 1503; Political Science:

POLSC 1113; Science: PHYS 1014

Life Skills Courses: (1 credit hour) Life Skills: SCL 1001

Notes: This technical/occupational program is designed to prepare students to enter the job force following completion.

(C) A grade of "C" or higher must be achieved.

(1) Advance standing is available.

(2) A+ Certificate Courses

(3) Preparatory courses for MCP certification through Microsoft that can apply toward MCSA and/or MCSE.