ASSOCIATE IN SCIENCE - COMPUTER INFORMATION TECHNOLOGY, DATABASE ADMINISTRATOR SPECIALIZATION

Previous Degree Required: HS Diploma
Eligible for Financial Aid: Yes
Delivery Method(s): On-Campus, Hybrid
Location(s): Cocoa, Melbourne, Palm Bay, Titusville, Online
Additional Limited Access Application Process Required: No
Program Testing Requirements: Assessment in Reading, Writing, and Math
Academic Community: STEM
Program Code: CIASDBA
Classification of Instructional Programs (CIP) Code: 11.0103
Florida Department of Education CIP Code: '1511010307

The Database Administrator specialization provides the foundation for obtaining the industry recognized certification in Oracle. Typical entry-level positions for graduates include positions working under Database Administrators in large corporations, state and federal government agencies, and Internet-based companies.

Refer to the Associate in Science Degree Programs overview to find information about admission, graduation, general education and other requirements. Students who need technical electives will work with a bachelor's advisor to determine the courses best suited to their plan of study.

Visit the program page for more information.

Specialization Requirements

Code	Title	Credit Hours
General Education Courses		
ENC 1101	Composition 1	3
Humanities Core Requirement		3
Mathematics Core Requirement		3
Natural Science Core Requirement		3
Social/Behavioral Science/Core-Civic Literacy Requirement		3
Major Courses		
CET 1176	Computer Maintenance and Repair	3
CGS 1000	Exploring Digital Technology	3
CGS 2100	Microcomputer Applications	3
COP 1000	Principles of Programming	3
COP 2700	Database Techniques	3
CTS 1142	Information Technology Project Management	3
CTS 1329	Microsoft Client O/S	3
CTSC 1134	Network+	3
Database Administrator Specialization		
COP 2334	Introduction to C++ Programming	3
COP 2812	Introduction to XML	3
CTS 1321	Linux Networking and System Administration	3
CTS 1383	Microsoft Server O/S - Installation and Configuration	3
CTS 2440	Introduction to Oracle SQL and PL/SQL	3
CTS 2441	Oracle Database Fundamentals 1	3
Technical Electives		**3**
CGS 2571	Microcomputer Applications-Advanced	
CGS 2941	Internship	
CGS 2948	Service Learning Field Studies 1	
CIS 2321	Systems Analysis and Design	
COP 2822	Web Page Authoring	
CTS 1321	Linux Networking and System Administration	
CTSC 2120	Network Security Fundamentals	
ENC 2210	Technical Writing	
GIS 2948	Service Learning Field Studies 1	
MAT 1033	Intermediate Algebra	
Total Credit Hours		**60**

Satisfy the civic literacy competency requirement

[1] ***Note: Courses in the four specializations above can be used as technical electives as long as they are not being used to fulfill the specialization requirement.***

Learning Outcomes

1. Differentiate between storage devices and storage media
   - *Supports Core Ability: Process Information*
2. Identify computer viruses such as Worms, and Trojan Horses
   - *Supports Core Ability: Process Information*
3. Organize data for entry into a spreadsheet application
   - *Supports Core Ability: Process Information*
4. Create constraints enforcing data integrity in relational databases
   - *Supports Core Ability: Process Information*
5. Code an SQL statement that selectively lists rows and columns from two or more joined tables
   - *Supports Core Ability: Think Critically and Solve Problems*
6. Code an SQL statement that uses aggregate functions
   - *Supports Core Ability: Think Critically and Solve Problems*
7. Install an Operating System
   - *Supports Core Ability: Think Critically and Solve Problems*
8. Classify types, characteristics, and uses of common components on a motherboard
   - *Supports Core Ability: Process Information*
9. Explain a scope statement framework
   - *Supports Core Ability: Process Information*
10. Describe a project charter framework
    - *Supports Core Ability: Process Information*