

CIST 2129 - Comprehensive Database Techniques (version 201003L)

Course Title Course Development Learning Support

Comprehensive Database Standard No
Techniques

Course Description

This course provides a study of databases beginning with introductory topics and progressing through advanced development techniques. Topics include: advanced database concepts, advanced development techniques, data integration concepts, and troubleshooting and supporting databases.

Pre-requisites

Pre-requisites: None

Co-requisites

Co-requisites: None

Course Length

	Minutes	Contact Hour	Semester Credit	WLU
Lecture:	750	15		
Lab 2:	4500	90		
Lab 3:	0	0		
Total:	5250	105	4	

Semester Credit Hours:	4	146.25
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Breakout Detail of Lab 3

Practicum/Internship	0	0
Clinical	0	0

Competencies & Outcomes

Order	Description	Lecture	Lab 2	Lab 3	Total Min	Credit Hrs	Pract Intern	Clinical
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1	Advanced Database Concepts	300	3000	0	3300	0	0	0
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Order	Description	Learning Domain	Level of Learning
1	Demonstrate the ability to effectively design, create and manage a database.	Psychomotor	Guided Response
2	Construct and relate tables to enforce referential integrity.	Cognitive	Application
3	Apply advanced techniques of form design to be used to enter and modify data.	Psychomotor	Mechanism
4	Develop queries including queries that filter, update and display data in varying forms.	Cognitive	Synthesis
5	Design reports which include headers and footers, grouping and sorting, subtotals and totals.	Cognitive	Synthesis

2	Advanced Development Techniques	150	500	0	650	0	0	0
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Order	Description	Learning	Level of
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						Domain	Learning
1	Create , use and modify macros.					Cognitive	Synthesis
2	Design and develop user interfaces.					Cognitive	Synthesis
3	Demonstrate the ability to assign macros to command buttons.					Cognitive	Application

3 **Data Integration Concepts** 150 500 0 650 0 0 0

Order	Description					Learning Domain	Level of Learning
1	Demonstrate the skills to export database objects.					Psychomotor	Guided Response
2	Integrate database with spreadsheet.					Cognitive	Comprehension
3	Demonstrate how to import an XML file.					Cognitive	Application
4	Integrate with the internet.					Cognitive	Comprehension

4 **Troubleshooting and Supporting Databases** 150 500 0 650 0 0 0

Order	Description					Learning Domain	Level of Learning
1	Use the application's help system.					Cognitive	Application
2	Apply database management techniques such as compacting, repairing, splitting and backup.					Cognitive	Application
3	Demonstrate methods of securing a database.					Cognitive	Application
4	Show how to analyze database performance.					Cognitive	Application

Competency Totals:	Lecture 750	Lab 2 4500	Lab 3 0	Total Min 5250	Cred Hrs 4	Pract Intern 0	Clinical 0
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