CIST 2550 - Web Development II (version 201003L)

Standard Institutionally Developed College: N/A

EDGE Compatible: No

Pre-requisites: All Required

CIST 1220 - Structured Query Language (SQL) (201003L)

CIST 1510 - Web Development I (201003L)

CIST 1520 - Scripting Technologies (201003L)

Co-requisites: None Course Description

Web Development II teaches students how to manipulate data in a database using the Open Database Connectivity (ODBC) model. Students will learn to retrieve, update, and display database information with a web application. Database access may be accomplished using a web programming language (such as PHP, Microsoft VB, Microsoft C#, or Sun Java). Topics include manipulating data in a database, working with a relational database via Open Database Connectivity (ODBC), working with different database systems, developing forms and applications to interact with a database server(s), modifying data in a database, and controls and validation.

Course Length

	Minutes	Contact Hour	Semester Credit
Lecture:	1500	30	
Lab 2:	1500	30	
Lab 3:	0	0	
Practicum/Internship:	0	0	
Clinical:	0	0	
Total:	3000	60	3
Semester Credit Hours:			3

Competencies

Ord	der	Description	Lecture	Lab2		Practicum/ Internship		Total	Semester Credit Hrs
1	1	Construct a Database	200	200	0	0	0	400	

	Totals for Course CIST 2550 - Web Development II (version 201003L):	1500	1500	0	0	0	3000	3
5	Design Controls and Validation	300	300	0	0	0	600	
4	Modify Data in a Database	300	300	0	0	0	600	
3 Develop Forms and Applications to Interact with File Systems, Email, and Database Servers 400 400 0		0	800					
2	2 Implement a Relational Database Via Open Database Connectivity (ODBC) 300		300	0	0	0	600	

Learning Outcomes

Constr	Construct a Database						
Order	Description	Learning Domain	Level of Learning				
1	Discuss benefits of database interaction.	Cognitive	Comprehension				
2	Assess data from and existing database.	Cognitive	Application				
3	Create data entry boxes.	Cognitive	Synthesis				
4	Utilize proper syntax to build queries.	Cognitive	Application				
5	Demonstrate deletion of existing records from a database.	Cognitive	Application				

Implement a Relational Database Via Open Database Connectivity (ODBC)

Order	Description	Learning Domain	Level of Learning	
1	Compare and contrast primary keys and foreign keys.	Cognitive	Comprehension	
2	Utilize Structured Query Language (SQL).	Psychomotor	Guided Response	
3	Utilize active data objects.	Psychomotor	Guided Response	
4	Demonstrate publishing data.	Psychomotor	Guided Response	
5	Utilize external data sources.	Psychomotor	Guided Response	
6	Develop a website that will connect to a database.	Psychomotor	Guided Response	
7	Use the database connectivity wizard.	Psychomotor	Guided Response	
8	Create a ODBC data source name.	Cognitive	Application	

Develop Forms and Applications to Interact with File Systems, Email, and Database Servers

Order	Description	Learning Domain	Level of Learning
1	Create , manipulate, and pass variables.	Cognitive	Synthesis
2	Demonstrate an understanding of and how to use function and arrays.	Psychomotor	Mechanism

3	Demonstrate an understanding of and how to use Micro (IIS) and Internet.	Psychomotor	Mechanism		
4	Demonstrate an understanding of and how to use Script	Psychomotor	Mechanism		
5	Develop select queries and display the result.			Psychomotor	Mechanism
Modify Data in a Database					
Order	Description Learning Domain Level of Learning				
1	Develop objects to add, insert, update, and delete data. Cognitive Application				
Design	Controls and Validation				
Order	Description	Learning Domain	Level of Learn	ning	
1	Design web forms using form validation controls.	Psychomotor	Guided Respo	nse	
2	Design web forms that will maintain database integrity.	Psychomotor	Guided Respo	nse	

References

	Reference	
Order	Туре	Description
1	Book with Author(s) Listed	Meyer, Jeanine and River, Charles. (2003). Creating DataBases Web Applications with PHP and ASP. (1st). Independenc, KY: Cengage. www.cengage.com
2	Book with Author(s) Listed	Davis, Michele and Phillips, Jon. (2007). Learning PHP and MySQL: Step-by-Step Guide for Creating Database Driven Web Sites. (2nd). Sebastopol: O'Reilly Media. www.oreilly.com
3	Book with Author(s) Listed	Gosselin, Ben. (2006). PHP Programming with MySQL. (1st). Boston: Cengage. www.cengage.com
4	Book with Author(s) Listed	Leasure, Bob and Leasure, James. (2004). The Web Warrior Guide to Web Database Technologies. (1st). Boston: Cengage. www.cengage.com
5	Book with Author(s) Listed	Forta, Ben and Camden, Raymond with Archart, Charlie. (2007). ColdFusion8 Web Application Construction Kit Volume1: Getting Started. (1st). Berkeley,CA: Peachpit. www.peachpit.com

6	Book with Author(s) Listed	Bardzell, Jeffrey and Flynn, Bob. (2007). Adobe Dreamweaver CS3 with ASP, Coldfusion, and PHP. (1st). Berkeley, CA: Peachpit. www.peachpit.com
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