Syllabus

CIT-260: Database Concepts

Course Description

This course introduces the basic terminology and concepts of databases, including data modeling, database models, and database design principles. Attention will also be given to the most popular relational database management systems (RDBMS) and the Structured Query Language (SQL). A popular desktop database application will be used as a tool in database design, use, maintenance, and management.

Credit Hours: 3
Prerequisite Courses: n/a
Prerequisite Skills and Knowledge: PC hardware and PC software such as: Windows, Office and Microsoft Access software

Course Outcomes

Upon successful completion of this course, you should be able to:

1. Have an introductory understanding of database and database management systems (DBMS).
2. Identify basic features of relational model and relational database.
3. Use the Structured Query Language (SQL) to access and manage relational database systems.
4. List basic database design theory, rules, and methods.
5. Explain DBMS functions.
6. Explain the basic concepts of database administration and database management systems (DBMS).
7. Explain Distributed DBMS, XML, Objected-oriented DBMS, Data Warehouse, and DBMS used in Web.

Course Textbook

Pratt, P. J., & Last, M. Z. (2015). Concepts of database management (8th ed.).

[VitalSource version]. Retrieved from http://bookshelf.vitalsource.com

Course Technology

None.

IWU Diversity Statement

IWU, in covenant with God's reconciling work and in accordance with the Biblical principles of our historic Wesleyan tradition, commits to build a community that reflects Kingdom diversity.

We will foster an intentional environment for living, teaching, and learning, which exhibits honor, respect, and dignity. Acknowledging visible or invisible differences, our community authentically values each member's earthly and eternal worth. We refute ignorance and isolation and embrace deliberate and courageous engagement that exhibits Christ's commandment to love all humankind. (2016)

Grading Scale

NOTE: In graduate level courses, a grade of C- or below will require the course to be repeated.

Grade	Quality Points Per Credit	Percentage	Score
A	4.0	95%–100%	950–1000
A-	3.7	92%–94.9%	920–949
B+	3.3	89%–91.9%	890–919
B	3.0	85%–88.9%	850–889
B-	2.7	82%–84.9%	820–849
C+	2.3	79%–81.9%	790–819
C	2.0	75%–78.9%	750–789
C-	1.7	72%–74.9%	720–749
D+	1.3	69%–71.9%	690–719
D	1.0	65%–68.9%	650–689
F	0.0	0%–64.9%	0–649

Grading Policies

Your grading policy for your course is dependent on your school and program. Your grading policies can be found in the [IWU Catalog](#).

Letter Grade Equivalencies

NOTE: In graduate level courses, a grade of C- or below will require the course to be repeated.

Grade	Description of Work
A	Clearly stands out as excellent performance. Has unusually sharp insights into material and initiates thoughtful questions. Sees many sides of an issue. Articulates well and writes logically and clearly. Integrates ideas previously learned from this and other disciplines. Anticipates next steps in progression of ideas. Example "A" work should be of such nature that it could be put on reserve for all cohort members to review and emulate. The "A" cohort member is, in fact, an example for others to follow.
B	Demonstrates a solid comprehension of the subject matter and always accomplishes all course requirements. Serves as an active participant and listener. Communicates orally and in writing at an acceptable level for the degree program. Work shows intuition and creativity. Example "B" work indicates good quality of performance and is given in recognition for solid work; a "B" should be considered a good grade and awarded to those who submit assignments of quality less than the exemplary work described above.
C	Quality and quantity of work in and out of class is average. Has marginal comprehension, communication skills, or initiative. Requirements of the assignments are addressed at least minimally.
D	Quality and quantity of work is below average. Has minimal comprehension, communication skills, or initiative. Requirements of the assignments are addressed at below acceptable levels.
F	Quality and quantity of work is unacceptable and does not qualify the student to progress to a more advanced level of work.

Course Workshop Summary

Workshop	Discussion*	Assignment*	Total Points per Workshop
Workshop One	1/20	2/200	220
Workshop Two	1/20	2/200	220

Workshop Three	1/20	2/200	220
Workshop Four	1/20	2/200	220
Workshop Five	1/20	2/100	120
End of Course Survey	--	--	10 Extra Credit
TOTAL	5/100	10/900	**1000**

* Number of Activities/Sum Point Totals

Workshop One

Title	Due Dates	Time	Points
1.1. Exercise: Reading	Due by the end of the workshop.	--	0
1.2 Discussion: Database and Its Processing	Post your initial response by the end of the fourth day of the workshop and your two responses by the end of the workshop.	--	20
1.3 Assignment: WS1 Concepts	Due by the end of the workshop.	--	100
1.4 Assignment: WS1 Exercises	Due by the end of the workshop.	--	100
Totals		**--**	**220**

Workshop Two

Title	Due Dates	Time	Points
2.1 Exercise: Reading	Due by the end of the workshop.	--	0

Title	Due Dates	Time	Points
2.2 Discussion: Stored Procedures	Post your initial response by the end of the fourth day of the workshop and your two responses by the end of the workshop.	--	20
2.3 Assignment: WS2 Concepts	Due by the end of the workshop.	--	100
2.4 Assignment: WS2 Exercises	Due by the end of the workshop.	--	100
Totals		**--**	**220**

Workshop Three

Title	Due Dates	Time	Points
3.1 Exercise: Reading	Due by the end of the workshop.	--	0
3.2 Discussion: Normalization	Post your initial response by the end of the fourth day of the workshop and your two responses by the end of the workshop.	--	20
3.3 Assignment: WS3 Concepts	Due by the end of the workshop.	--	100
3.4 Assignment: WS3 Exercises	Due by the end of the workshop.	--	100
Totals		**--**	**220**

Workshop Four

Title	Due Dates	Time	Points
4.1 Exercise: Reading	Due by the end of the workshop.	--	0

Title	Due Dates	Time	Points
4.2 Discussion: Database Administration	Post your initial response by the end of the fourth day of the workshop and your two responses by the end of the workshop.	--	20
4.3 Assignment: WS4 Concepts	Due by the end of the workshop.	--	100
4.4 Assignment: WS4 Exercises	Due by the end of the workshop.	--	100
Totals		**--**	**220**

Workshop Five

Title	Due Dates	Time	Points
5.1 Exercise: Reading	Due by the end of the workshop.	--	0
5.2 Discussion: Database Management	Post your initial response by the end of the fourth day of the workshop and your two responses by the end of the workshop.	--	20
5.3 Assignment: WS5 Concepts	Due by the end of the workshop.	--	50
5.4 Assignment: WS5 Exercises	Due by the end of the workshop.	--	50
End of Course Survey	Due by the end of the workshop.	--	10 Extra Credit
Totals		**--**	**120**

Course Assignments

TOTALS	**XXX hours***	**1000**

* These timings are based on estimations of average times to complete each assignment. Actual assignment completion times will vary.

Course Development Resources

Alternative Assignment Policy

Students with a documented disability may request accommodations for an alternative assignment(s) for course activities (Examples: video assignments, etc.). It is the student's responsibility to submit the form received from the Disability Services Office indicating his/her specific accommodation to the instructor prior to the start of each course.

Expectations, Policies, and Important Student Information

School/Division	Link
DeVoe School of Business Division of Liberal Arts School of Services and Leadership	View School/Division Expectations, Policies, and Student Information
School of Educational Leadership	View School/Division Expectations, Policies, and Student Information
Wesley Seminary @ IWU	View School/Division Expectations, Policies, and Student Information
Nursing - Undergraduate	View School/Division Expectations, Policies, and Student Information
Nursing - Graduate	View School/Division Expectations, Policies, and Student Information

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