

# **Integration of Software Technology in Informatics Nursing Curriculum**

*Deborah Rastinehad, PhD, RN  
Excelsior College  
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USA  
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# What's This About?



- Overview of Informatics Program
- DIK Course
- Integration of Software Technology
- Lessons Learned

# Excelsior College

## Health Care Informatics Certificate

- Graduate Level Program (17 credits)
  - Data Information & Knowledge
  - Informatics & the Health Care Delivery System
  - System Lifecycle
  - Issues in Health Care Informatics
  - Knowledge Representation: Data Standards, Terminologies & Implications for Practice
  - Information Project Management

# Course Delivery

The WebCT Platform has a number of key elements:

- Learning Modules
- Discussion/Chat
- Email
- Calendar



# Data, Information and Knowledge

- Cohort course (3 credits)
- Focus:
  - nature of data
  - concepts of information and knowledge
  - principles of relational databases, systems operations and information systems.
- Design and create a simple database in response to an identified healthcare problem

# Course Outline

- Module I Introduction to Databases
- Module II: Principles to Ensure Data Integrity
- Module III: Building an Access Database
- Module IV: Database Issues
- Module V: Final Project

# Citrix Server

- Integrate MS Access into course content
- Student files can be accessed by faculty
  - Immediate feedback
  - Grading
  - Evidence of ongoing progress
  - Databases are archived with course

# Challenges/Lessons Learned

- Self paced to Cohort
- Predetermined database creation
- Students using his/own database software
- Student experience/questions
- Duplicate fields
- End of Course Assessment



# End of Course Assessment

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- Executive Summary (35%)
- Database (55%)
- Participation (10%)

# Executive Summary

- Define problem and why it's well suited for a database solution
- Mission statement and objectives
- Issues, challenges, possible solutions
- Literature review
- Executive Summary format

# Database

- Identify
  - Fields, Table Structure, Reports, Terminology Lists, Relationships
- Design
  - Queries, Forms, Reports
  - Database must have 5 tables, 4 queries, 2 reports & 2 forms
  - Tables must be normalized and have primary key

# Participation

- Quality and depth of commentary
- Frequency
- Evidence of Understanding of Topics
- Finding new meaning/seeking other perspectives
- Reaching common ground
- Meeting responsibilities

# THANK YOU

- Any Questions

