

Course Number: MIS 3100

Course Title: Database Management

Course Description:

This course emphasizes relational database development, usage, and control with exposure to a variety of end user and managerial programs for utilization in a professional environment. Related topics also include normalization and conceptual design using entity relationship diagramming.

Prerequisites: MIS 1300 and HIM 4000 with a grade C or better.

Credit hours: 3

Learning Outcomes:

Upon the successful completion of this course, students will be able to:

1. Describe the differences between operational and analytical databases.
2. Compare and contrast the basic methods of procuring database software.
3. Describe single and multi-tier database application architectures.
4. Interpret and create data models using entity-relationship diagrams.
5. Identify normal forms.
6. Transform entity-relationship data models into relational database designs.
7. Implement Data Integrity and Business Rules through the use of Integrity Constraints.
8. Describe the Software Development Life Cycle and Project Management as they apply to database application development.



College of Professional Studies
MIS 3100 Database Management
Online Syllabus Course Content

Instructor Information

Please see Professor Profile at the Blackboard instructional site.

Course Schedule

Please see Course Schedule in the Course Syllabus area of the Blackboard instructional site.

Online Course Policies

All of the online courses taken by students are required to follow the policies posted online at <http://online.indianatech.edu/tech-policies/policies/>. Please review the posted policies carefully. If you are unable to abide by the policies listed, please contact the Warrior Information Network (WIN) at 888.832.4742 and request to withdraw from this course.

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Textbook

Blaha, M. (2001). *A manager's guide to database technology*. Prentice Hall, ISBN 0-13-030418-2.

Kroenke, D. (2004). *Database processing, fundamentals, design, & implementation* (9th ed.). Prentice Hall, ISBN 0-13-101514-1.

Hardware/Software Tools: Microsoft Word, PowerPoint and Access required. Internet access to Blackboard also required. Use of a drawing tool like MS Visio will be helpful.

Grading Events & Grading Criteria

All assignments must be submitted via Blackboard

| | | |
|-------------------------|------------------------|------------|
| Course Preparation Quiz | 1 @ 25 | 25 points |
| Discussion Questions | 5 @ 30 | 150 points |
| Weekly Participation | 5 @ 40 | 200 points |
| Weekly Assignments | 4 @ 100 per assignment | 400 points |

| | | |
|--------------------|-----|--------------------|
| Individual Project | 400 | 400 points |
| Final Exam | 200 | 200 points |
| Total | | 1375 points |

MINIMUM REQUIREMENTS FOR ALL WRITTEN ASSIGNMENTS

All papers and submissions must adhere to APA format and be submitted to Blackboard as a single document in MS Word compatible format (.doc, .docx, or .rtf). (Documents addressing APA formatting are posted at the class Blackboard site.)

Weekly Assignments: All assignments should be professionally presented, neat, and concise. The assignment presented for grading will use proper sentence structure, bullet point format, and paragraph construction. ***Basic information that is required for each assignment includes but is not limited to:***

- a) Identification (standard APA title page)
- b) ***Summary of the facts of the assignment*** (Several paragraphs summarizing the basic facts of the assignment as you see them).
- c) ***Based on your understanding of the assignment (as defined by you), answer to the questions at the end of the assignment*** (Answers should reflect your personal knowledge and experience as well as information from the text, outside sources, and web sites. A single word or single sentence answer will be considered inadequate. The student must **significantly justify any answer** provided.) **BE SURE YOU NUMBER THE ANSWERS SO THEY ARE EASY TO IDENTIFY.**
- d) ***Include all reference and source information at the end of the paper.*** Use APA formatting for citations and references.
- e) ***EACH ASSIGNMENT SHOULD BE PREPARED AS A SINGLE MS WORD DOCUMENT.*** (Import spreadsheets and drawings into the Word document if necessary.)
- f) Identify and explain 3 significant points of interests you discovered from the readings, written assignments, or discussion questions this module.
- g) ***All assignments must be posted to the appropriate link in Blackboard on or before midnight of the date due.***

Discussion Questions: For each module, discussion questions are posted on Blackboard to create an on-going conversation about database management. Expectations are that the answers to the discussion questions will be professionally written and completed during the module period. *(Note: These discussion questions may or may not directly relate to the material covered in the module or book chapters.)*

Post your response to the specific discussion question you are answering. Answers are expected to reflect the material from the book, outside sources including the Internet,

and your work experience. Create a reference for any outside references (other than the text) you may use in formulating your questions.

You are expected to read the response of the other students and comment as well. Two (2) significant additional comments are required by each student for each discussion question. (You will make a minimum of 3 posts per discussion question per module: A primary or initial response and 2 comments on other student's response.)

Participation for a module is only recorded during the module week. If you answer a discussion question or respond to another post outside the module week, the participation will not be counted as participation. To receive full credit for participation, you must post 2 responses in the discussion area for Modules 1 through 5.

Grading Scale

The following grading scale will be used to assign a grade at the end of the course:

| Percentage Achieved | Grade | Percentage Achieved | Grade | Percentage Achieved | Grade |
|---------------------|-------|---------------------|-------|---------------------|-------|
| 90% or above | A | 70% or above | C | Below 60% | F |
| 80% or above | B | 60% or above | D | | |

Late Assignments

All assignments and required online activities are due according to the deadline listed in the course schedule. Granting deadline extension is the course instructor's autonomy.

Incompletes

If you are unable to complete the requirements for this course due to extenuating circumstances, an Incomplete grade (I) may be granted if you meet the general guidelines stated below.

General Guidelines for submitting a course incomplete request:

- More than 50% of the course session has elapsed.
- The student has encountered an unexpected situation that is beyond his or her control.
- The student is
 - in good academic standing -- up to date on all of the course assignments and has at least an overall passing grade,
 - able to complete all of the remaining coursework within a session (5 weeks for an undergraduate course and 6 weeks for a graduate course) that immediately follows the session the student is currently enrolled, and
 - able to provide support documentations to substantiate the need for extra time should a session is not enough to complete the course requirements.

If an Incomplete is granted, the instructor will set a deadline for all work to be completed. **The deadline cannot go past one (1) session.** All incomplete grades are subject to approval by the designated university authority.

Course Related Communication

Online courses are conducted in an accelerated format. Timely communication is very important. When receiving emails from your classmates or instructor, please respond as soon as you can.

Students are REQUIRED to use their Indiana Tech email account for all course related communication. The most direct, and effective, way to email your course instructor and classmates, is by using the Send Email function within the Blackboard course site. When you use the Send Email function, you automatically receive a carbon copy of the email you sent. In the event when you need to substantiate your claim that you did email your classmates or instructor, you can show that carbon copy to the person(s) who requested it.

Please note that Blackboard only permits you to send email, it does not provide you with the check email function. All of the emails your classmates and instructor send to you will be delivered to your Indiana Tech email account. You are strongly encouraged to check your Indiana Tech email account regularly, preferably several times a week, to minimize the likelihood of miscommunication.

The University policy requires each online course instructor to respond to a student's email within 24 hours. Unless there is an extraneous situation that prevents the instructor from following this rule, you can expect to hear from the instructor within 24 hours. If you don't receive a reply within 24 hours, please do not hesitate to follow up with another email or forward the carbon copy of the email you sent to OnlineSupport@IndianaTech.edu with a note "Please help. It's been 24 hours and I have not heard from my instructor" and the University support staff will act on your behalf to contact your course instructor.