



# FUNDAMENTALS OF DATABASE

## DATA200 — Fundamentals of Database, 3.0 hours

### PROFESSOR

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Maurice C. Barnes is a Senior Database Administrator with the Department of Defense (DOD), where he has devoted 80 percent of his time improving department business practices and daily operating procedures.

Maurice has been a primary asset to the United States government in implementing the conversion from Hewlett Packard (HP) and Dell legacy hardware systems to virtual and cloud base infrastructures in an effort to improve productivity and efficiency while reducing cost.

Maurice is a frequent volunteer at multiple non-profit organizations throughout Autauga and Montgomery Counties in an effort to mentor young teenagers and adults.

### CONTACT INFORMATION

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E-mail: [mbarnes@lakewood.edu](mailto:mbarnes@lakewood.edu)

Cell Phone: 800-517-0857 X 708

### ONLINE SUPPORT (IT) AND MOODLE NAVIGATION:

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All members of the Lakewood University community who use the University's computing, information or communication resources must act responsibly. Support is accessible by calling 1-800-517-0857 option 2 or by emailing [info@lakewood.edu](mailto:info@lakewood.edu)

### BOOKS AND RESOURCES

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Reynolds, George; Stair M. Ralph. Fundamentals of Information Systems. 9th ed. Cengage, 2018.

### EVALUATION METHOD

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Graded work will receive a numeric score reflecting the quality of performance.

Course Requirement Summary

- Assignments - Total of 80 Points
- Weekly discussion forums-Total of 80 Points
- Midterm - 20 points
- Final Exam - 50 Points

### GRADING SCALE

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Graded work will receive a numeric score reflecting the quality of performance as given above in evaluation methods. The maximum number of points a student may earn is 230. To determine the final grade, the student's earned points are divided by 230.

Your overall course grade will be determined according to the following scale:

A = (90% -100%)  
B = (80% - 89%)  
C = (70% - 79%)  
F < (Below 70%)

## ACADEMIC INTEGRITY/ PLAGIARISM:

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Cheating (dishonestly taking the knowledge of another person whether on a test or an assignment and presenting it as your work) and plagiarism (to take and pass off as one's own the ideas or writing of another) are a serious issue. While it is legitimate to talk to others about your assignments and incorporate suggestions, do not let others "write" your assignments in the name of peer review or "borrow" sections or whole assignments written by others. We do get ideas from life experiences and what we read but be careful that you interpret these ideas and make them your own.

I am aware that many types of assignments are available on the internet and will check these sources when there is legitimate suspicion.

Penalty is a zero on the assignment. In cases where there is a major or continuous breach of trust, further discipline, such as an "F" in the course, may be necessary.

The major consequence of any form of cheating is damage to your character and the result of trust and respect.

## DISABILITY ACCOMMODATIONS

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Students who have a disability and wish to request an academic accommodation should contact Jim Gepperth, the Disabilities Services Coordinator and Academic Dean. The student can request an accommodation at any time although it is encouraged to do so early in the enrollment process. The student should complete an accommodation request form which begins a conversation between the school and the student regarding the nature of their disability and an accommodation that would help the student succeed in their program. The school may request documentation regarding the disability to address the accommodation request effectively. The school will communicate to the student the type of accommodation arranged. This process typically follows a team approach, bringing together persons from the academic department (including the instructor) and personnel from other departments as necessary. Additional information on disability accommodations may be found in the Lakewood University Catalog.

Disability Services Email: [disabilityservices@lakewood.edu](mailto:disabilityservices@lakewood.edu)

## SUPPLEMENTAL TEXTS

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You can use the following resources to assist you with proper source citation.

American Psychological Association Style Guide- [https://www.mylakewoodu.com/pluginfile.php/118179/mod\\_resource/content/1/APA%20Style%20Guide%207th%20edition.pdf](https://www.mylakewoodu.com/pluginfile.php/118179/mod_resource/content/1/APA%20Style%20Guide%207th%20edition.pdf)

The Purdue OWL website is also a helpful resource for students. Here is a link to the OWL website: [https://owl.purdue.edu/owl/research\\_and\\_citation/apa\\_style/apa\\_formatting\\_and\\_style\\_guide/general\\_format.html](https://owl.purdue.edu/owl/research_and_citation/apa_style/apa_formatting_and_style_guide/general_format.html)

## LIBRARY

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Mary O'Dell is the Librarian on staff at Lakewood University

She is available by appointment. You can make an appointment with her by emailing her at [modell@lakewood.edu](mailto:modell@lakewood.edu) or call at 1-800-517-0857 X 730

You may also schedule a meeting at this link: <https://my.setmore.com/calendar#monthly/r3a761583354923270/01032020>

She can assist you with navigating LIRN, research, citations etc.

# SUPPORT

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Each student at Lakewood University is assigned a Success Coach. Your Success Coach exists to assist you with academic and supportive services as you navigate your program. They will reach out to you, often, to check-in. Please use the resources they offer.

Student Services is available to assist with technical questions regarding Lakewood University and all services available to you.

1-800-517-0857 option 2  
info@lakewood.edu  
studentservices@lakewood.edu

# CAREER SERVICES

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Students are offered Career Services at any point as they journey their academics at Lakewood University.

1-800-517-0857 option 2  
careerservices@lakewood.edu

# LESSONS

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TITLE	COURSE TOPIC	READINGS/ASSIGNMENTS	DUE	OBJECTIVES
Lesson #1	<ul style="list-style-type: none"><li>An Introduction to Information Systems in Organizations</li><li>Hardware and Software</li></ul>	Study Course Syllabus Read Chapters 1 & 2 Participate in 2 Discussion Forums Lesson Evaluation		Objective 1
Lesson #2	<ul style="list-style-type: none"><li>Database System and Big Data</li><li>Networks and Cloud Computing</li></ul>	Read Chapters 3 & 4 Participate in the Discussion Forum Complete Assignment 1 Lesson Evaluation	Assignment 1 upon completion of the lesson	Objective 2
Lesson #3	<ul style="list-style-type: none"><li>Electronic Commerce and Enterprise Systems</li></ul>	Read Chapters 5 Participate in the Discussion Forum Complete Assignment 2 Lesson Evaluation	Assignment 2 upon completion of the lesson	Objective 3
Lesson #4	<ul style="list-style-type: none"><li>Business Intelligence and Analytics</li></ul>	Read Chapters 6 Participate in the Discussion Forum Midterm Exam Lesson Evaluation	Midterm Exam upon completion of the lesson	Objective 4
Lesson #5	<ul style="list-style-type: none"><li>Knowledge Management and Specialized Information Systems</li></ul>	Read Chapters 7 Participate in the Discussion Forum Complete Assignment 3 Lesson Evaluation	Assignment 3 upon completion of the lesson	Objective 5

TITLE	COURSE TOPIC	READINGS/ASSIGNMENTS	DUE	OBJECTIVES
Lesson #6	<ul style="list-style-type: none"> <li>System Acquisition and Development</li> </ul>	Read Chapters 8 Participate in the Discussion Forum Lesson Evaluation		Objective 6
Lesson #7	<ul style="list-style-type: none"> <li>Cybercrime and Information System Security</li> </ul>	Read Chapters 9 Participate in the Discussion Forum Complete Assignment 4 Lesson Evaluation	Assignment 4 upon completion of the lesson	Objective 7
Lesson #8	<ul style="list-style-type: none"> <li>Ethical, Legal, and Social Issues of Information Systems</li> </ul>	Read Chapter 10 Participate in the Discussion Forum Complete the Final Exam Request the Next Course Lesson Evaluation THANKS FOR A GREAT CLASS	Final exam upon completion of the lesson	Objective 8

## DESCRIPTION

This course will help students learn valuable, fundamental technology knowledge. The fundamentals of database will be learned by covering introductory knowledge and skills including relational databases; core database concepts; relational database concepts; security requirements for databases and the data stored in them.

### Program Objectives

1. Identify and briefly describe the functions of the primary components of a computer
2. Briefly describe how the Internet and the Web work, including various methods for connecting to the Internet.
3. Identify several advantages and challenges associated with e-commerce and m-commerce.
4. Define the terms business intelligence (BI) and analytics.
5. Define the term "artificial intelligence" and state the objective of developing artificial intelligence systems
6. Identify and state the goal of each of the six phases of the waterfall approach.
7. Identify and briefly describe the types of computer exploits and their impact.
8. Discuss the principles and limits of an individual's right to privacy.

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