COMPUTER SYSTEMS ARCHITECTURE

CSA100 — Computer Systems Architecture, 3.0 hours

PROFESSOR

Dr. Mia A. Simmons is a native of Atlanta, GA. Her Bachelors in computer Science and Master's in Information Technology degrees she received from North Carolina A&T SU. Dr. Simmons received her Doctoral Degree in Leadership and Organization in Information Systems before the age of 30 from the University of Phoenix.

She has held several corporate technical positions as a Software Engineer, Marketing Engineer, Business Process Analyst & Sr. Project Manager. She currently holds the position as the Business Continuity Risk Liaison, along with being the Engineering Professor at University of Akron. For 6 years, Dr. Simmons was the IT Department Chair & Advisor for South University in Warrensville Hts.

She loves being active in various organizations such as Zeta Phi Beta Sorority, Inc. She also holds the Operations Manager role for PURE Productions (non-profit theater organization). She has always had a passion for helping and developing individuals.

In 2015 she started a Big Sister Mentorship Program called Excellence of A Pearl (EOAP), where she focuses on building integrity and self Esteem for girls ages 10-18. Because of her persistence and trusting God, she started with only 8 girls & now she has over 45 in the program. Along with an In-School EOAP program at New Tech East, Richmond Hts., and Maple Heights School District. She is also the co-Founder of FIST, our young men's mentorship program.

CONTACT INFORMATION

E-mail: msimmons@lakewood.edu
Cell Phone: 800-517-0857 X 776

ONLINE SUPPORT (IT) AND MOODLE NAVIGATION:

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

BOOKS AND RESOURCES

Burd, Stephen D. Systems Architecture. 7th ed. Cengage, 2016.

EVALUATION METHOD

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

- **Assignments - Total of 60 Points**
- **Weekly discussion forums-Total of 100 Points**

- **Midterm - 20 points**
- **Final Exam - 50 Points**

GRADING SCALE

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 190. To determine the final grade, the student's earned points are divided by 190.

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

A = (90% -100%)
B = (80% - 89%)
C = (70% - 79%)
D = (60% - 69%)
F < (Below 60%)

ACADEMIC INTEGRITY/ PLAGIARISM:

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

Students who may have a disability meriting an academic accommodation should contact Jim Gepperth, the Disabilities Services Coordinator and Academic Dean. For accommodations to be awarded, a student must complete a form and provide documentation of the disability to the Disability Services Coordinator. Any accommodations for disabilities must be re-certified each year by the Disability Services Coordinator before course adjustments are made by individual instructors. Additional information on disability accommodations may be found in the Lakewood University Catalog.

SUPPLEMENTAL TEXTS

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

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

LIBRARY

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 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

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

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

TITLE	COURSE TOPIC	READINGS/ASSIGNMENTS	DUE	OBJECTIVES
Lesson #1	• Computer Technology: Your Need to Know • Introduction To Systems Architecture • Data Representation	Study Course Syllabus Read Chapters 1, 2, 3 Participate in 2 Discussion Forums Lesson Evaluation		Objective 1
TITLE	**COURSE TOPIC**	**READINGS/ASSIGNMENTS**	**DUE**	**OBJECTIVES**
Lesson #2	• Processor Technology and Architecture • Data Storage Technology	Read Chapters 4 & 5 Participate in the Discussion Forum Complete Assignment 1 Lesson Evaluation	Assignment 1 upon completion of the lesson	Objective 2
TITLE	**COURSE TOPIC**	**READINGS/ASSIGNMENTS**	**DUE**	**OBJECTIVES**
Lesson #3	• System Integration and Performance • Input/Output Technology	Read Chapters 6 & 7 Participate in 2 Discussion Forums Lesson Evaluation		Objective 3

TITLE	COURSE TOPIC	READINGS/ASSIGNMENTS	DUE	OBJECTIVES
Lesson #4	• Data and Network Communication Technology • Computer Networks	Read Chapters 8 & 9 Participate in the Discussion Forum Complete Midterm Lesson Evaluation	Midterm upon completion of the lesson	Objective 4
TITLE	**COURSE TOPIC**	**READINGS/ASSIGNMENTS**	**DUE**	**OBJECTIVES**
Lesson #5	• Application Development	Read Chapters 10 & 11 Participate in the Discussion Forum Lesson Evaluation		Objective 5
TITLE	**COURSE TOPIC**	**READINGS/ASSIGNMENTS**	**DUE**	**OBJECTIVES**
Lesson #6	• Secondary Storage Management	Read Chapter 12 Participate in the Discussion Forum Complete Assignment 2 Lesson Evaluation	Assignment 2 upon completion of the lesson	Objective 6
TITLE	**COURSE TOPIC**	**READINGS/ASSIGNMENTS**	**DUE**	**OBJECTIVES**
Lesson #7	• Internet and Distributed Application Services	Read Chapter 13 Participate in the Discussion Forum Lesson Evaluation		Objective 7
TITLE	**COURSE TOPIC**	**READINGS/ASSIGNMENTS**	**DUE**	
Lesson #8	• System Administration	Read Chapter 14 Participate in the Discussion Forum Complete Assignment 3 Complete the Final Exam Request the Next Course Lesson Evaluation THANKS FOR A GREAT CLASS	Assignment 3 and the Final exam upon completion of the lesson	

DESCRIPTION

This course will help students discover the concepts and essential skills necessary to administer operating systems, networks, software, file systems, file servers, web systems, database systems, system documentation, policies, and procedures.

Program Objectives

1. **Describe what technology knowledge is required to develop information systems and manage computing resources.**
2. **Describe factors that storage device performance.**
3. **Describe how buffers and caches improve computer system performance.**
4. **Describe network hardware devices.**
5. **Describe link editing and contrast static and dynamic linking.**
6. **Compare storage consolidation methods including storage area networks, network-attached storage, and cloud-based storage services.**
7. **Describe standard Internet protocols for accessing distributed resources.**
8. **Summarize measures for ensuring system security.**

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