**CSC 430/530 – DATABASE MANAGEMENT SYSTEMS**

**Instructor:** Sunzid Hassan

**Office Hours:** To be announced next week. Currently by appointment.

**Contact Information:**

**Office:** NETH 232

**Cell:** (318) 513-8248

**Email:** [sha040@latech.edu](mailto:sha040@latech.edu)

**Class Time:** TT: 8:00-9:50 AM

**Class Location:** IESB 216

**Prerequisite:** CSC 220 – Data Structures.

**Course Description:** The course aims at introducing the student to the theory, design, and implementation of Relational Data Base Management Systems (RDBMS).

Topics include database concepts, models and applications; database management systems; implementation of a practical database.

The objective of this course is to expose students to database concepts of effective storage, security, and allied applications of legacy storage. The course emphasizes on the practical steps towards the creation of effective database management systems and the implementation of a simple database. The in-class experience for students is tailored specifically to supervised practical lab sessions and exercises.

**Textbook:** *Fundamentals of Database Systems (7th edition),* by Elmasri and Navathe*.*

**Grading:**

Assignments + Paper (grad): 20%

Labs: 10%

Presentation: 30%

Attendance: 5%

Exams (2): 35%

High exam - 20%

Low exam - 15%

**Grading Scale:**

A – >89.9%

B – 79.9 – 89.9%

C – 69.9 – 79.9%

D – 59.9 – 69.9%

F – <59.9%

**NOTE:** The Computer Science Undergraduate Program requires a **C** or better in any course in the College of Engineering and Science prior to taking courses for which these are prerequisites. A student must have at least a **2.0 GPA** in all Computer Science courses (which includes **all attempts**).

**Topics (tentative):**

* Database System Concepts & Architecture
* Data Modeling Using Entity–Relationship (ER) Model
* Enhanced Entity–Relationship (EER) Model
* Relational Data Model & Relational Database Constraints
* Relational Algebra
* Structured Query Language (SQL)
* Functional Dependencies & Normalization
* Indexing Structures & Physical Database Design

**Submissions**:

Submissions are either to be turned in on Canvas by the designated time and date shown or turned in during class in hard copy form.

* If an assignment is 1 second up to 24 hours late, 10% of its value will be deducted.
* If an assignment is 24 hours up to 48 hours late, 25% of its value will be deducted.
* No assignments turned in later than 48 hours past the due date will be accepted!

This policy may be altered for any assignments whose due date lands at the end of the quarter. For these assignments, I may not accept late submissions since I will need to turn in final grades.

**Attendance:**

Regular and punctual class attendance is required. An unexcused absence for an examination, quiz, presentation, or any other in-class activity will result in a zero grade for that activity. If you will be absent from class, you are required to inform your instructor prior to the absence if you would like an excuse considered. Acceptable means of informing your instructor include email. Any makeup examinations may contain significantly different content than the missed exam.

**Academic Conduct:**

Claiming the work of someone else as your own is cheating. The integrity of academic institutions and our society relies on each student being evaluated on their own work, and cheating undermines this system. Looking at another student's work during an exam or quiz is cheating, as is copying another student's work for homework or lab reports. In addition to these specific examples, see this list for other specific examples of cheating.

Louisiana Tech has an Honor Code that all students are expected to know. Please take time to read it and follow it. Assisting another student to cheat (e.g. providing them with unauthorized assistance) is also considered cheating.

Students caught cheating will be given a zero grade on the assignment(s) for which the cheating took place. Students caught cheating may also be subject to other sanctions imposed by the instructor or university, including but not limited to: restructuring of grading categories, additional/different course requirements, a failing grade in the course, academic probation, suspension, or expulsion from the university. The instructor is not required to have irrefutable proof that cheating took place in order to begin sanctions against the suspected student(s).

**Testing and Disability Services:**

Students needing testing or classroom accommodations based on a disability are encouraged to discuss those needs with the instructor as soon as possible. Testing and Disability Services' website is found at www.latech.edu/ods.

**Syllabus Changes:**

The contents of this syllabus are not expected to change. However, the instructor retains the right to interpretation and/or alteration of the policies contained herein. In the case of alteration, ample notice will be provided.

**Emergency Notification System:**

All Louisiana Tech students are strongly encouraged to enroll and update their contact information in the Emergency Notification System. It takes just a few seconds to ensure that you are able to receive important text and voice alerts in the event of a campus emergency. For more information on the Emergency Notification System, please visit [www.latech.edu/administration.ens.shtml](http://www.latech.edu/administration.ens.shtml).

**COVID -19 Policy:**

Students can access COVID-19 related information, guidelines, FAQs, and policies at Louisiana Tech’s website: [www.latech.edu/coronavirus](file:///C:\Users\Louis%20Reis\Downloads\www.latech.edu\coronavirus).

Louisiana Tech’s Return to Campus Plan is located at [www.latech.edu/return-to-campus](file:///C:\Users\Louis%20Reis\Downloads\www.latech.edu\return-to-campus). Masks are required to be worn indoors on campus. Masks are required to be worn outdoors if six feet of physical distance cannot be maintained. Every member of the Tech Family will need to take personal responsibility for their behavior, which includes wearing masks, maintaining physical distancing, washing hands regularly, using proper sneeze and cough practices, helping maintain clean academic and office areas, and monitoring for symptoms of COVID-19.

Failure to comply with the Safety Protocols listed in the “Back to Campus Culture of Sharing” booklet, located at [www.latech.edu/documents/2020/07/covid-return-book.pdf/](http://www.latech.edu/documents/2020/07/covid-return-book.pdf/), specifically on pages 5-7 about masks and social distancing, could result in students being in violation of the Classroom Behavior Policy listed on page 123 of the “Student Handbook,” located at [www.latech.edu/documents/2018/09/student-handbook.pdf/](file:///C:\Users\Louis%20Reis\Downloads\www.latech.edu\documents\2018\09\student-handbook.pdf\).

Students who are feeling ill with COVID-19 symptoms, have been exposed to, or have tested positive for COVID-19 should not come to class and should follow the reporting guidelines detailed below:

The direct link to the reporting protocol for students exposed to, displaying symptoms of, or testing positive for COVID-19 is located at [www.latech.edu/return-to-campus-plan/for-students/](file:///C:\Users\Louis%20Reis\Downloads\www.latech.edu\return-to-campus-plan\for-students\). Students must reach out to Stacy Gilbert, Dean of Student Services & Academic Support, at [stacyc@latech.edu](mailto:stacyc@latech.edu) for help with accommodations and additional information. Accommodations may not be granted until proper University protocol has been followed. Short-term COVID-19 accommodations are not disability accommodations.

If you are ill, you can get treatment at the Wellness Center in the Lambright Intramural Center building. The nurses there can treat minor illnesses and can give vouchers to see doctors in town for more serious illnesses. Since you have already paid for this service through your fees, there is usually no additional charge. Also, if you sign a HIPPA release form at the time of your visit, they can verify that you were ill and thus you will have an excused absence for missing class.

**Counseling Services:**

Information and contact numbers and sites for Louisiana Tech Counseling Services are located at <https://www.latech.edu/current-students/student-advancement-affairs/counseling-services/>