

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.

OBJECTIVE: 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.

PREREQUISIT: CSC 220: Data Structures.

TEXTBOOK: *Fundamentals of Database Systems*, by Elmasri and Navathe.

INSTRUCTOR: Dr. Andrey Timofeyev | andtimo@latech.edu | 318 257 2197 | IESB 215

OFFICE HOURS: MWF 8-9 AM | TR 8-10 AM & 2-3:30PM via Zoom or in IESB 215.
Zoom: <https://latech.zoom.us/my/andtimo>

GRADES: The final grade shall consist of the average of exams, assignments, labs, quizzes, project, and literature review (graduate students only) as listed below:

	Undergrad	Grad
Quizzes	5%	5%
Assignments / Labs	25%	20%
Midterm Exam	20%	20%
Final Exam	20%	20%
Project	30%	25%
Paper review	-	10%

TOPICS COVERED (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

CLASS POLICIES:

- Assignments and labs are individual (unless explicitly stated otherwise).
 - **Plagiarism** (sharing source code) is a **violation** of the Academic Honor Code that results in a failing grade for the assignment and may result in failing the course or expulsion from the university.
- Submitting assignments after the due date results in reduced points:
 - 0-24 hours –25% points
 - 24-48 hours –50% points
 - 48+ hours –100% points
- All exams are open book (unless explicitly stated otherwise) and conducted through Moodle.
 - You are allowed to use search engines, books, notes, calculators, phones.
 - You are NOT allowed to use someone else help.
 - No makeup/substitution exams are offered unless a valid excuse is given BEFOREHAND.
 - **Cheating** is a **violation** of the Academic Honor Code that results in a failing grade for the exam and may result in failing the course or expulsion from the university.

COVID-19 POLICIES:

- Each student, staff, and faculty member must 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.
- Full list of Louisiana Tech University Guidelines and Safety Protocols can be found in Back to Campus Fall 2020 booklet at <https://www.latech.edu/documents/2020/07/covid-return-book.pdf/>
 - Failure to comply with the Safety Protocols listed in the booklet 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 125 of the Student Handbook <https://www.latech.edu/documents/2018/09/student-handbook.pdf/>
- Students who are feeling ill with COVID-19 symptoms, have been exposed to or tested positive for COVID-19, **SHOULD NOT** come to class.
 - Contact Tech Care at 318-257-4866 and reach out to Stacy Gilbert, Dean of Student Services & Academic Support, at stacyc@latech.edu for help with accommodations and additional information.
 - Explanation of next steps can be found at <https://www.latech.edu/coronavirus/return-to-campus-plan/for-students/>.
 - Students who miss face-to-face class for COVID-19 related reasons will have access to course materials and grade opportunities while away from face-to-face class.
- University Return to Campus plan can be found at <https://www.latech.edu/coronavirus/return-to-campus-plan/>
- Information, contact numbers and sites for Louisiana Tech Counseling Services are located at <https://www.latech.edu/current-students/student-advancement-affairs/counseling-services/>
- All COVID-19-related information, guidelines, FAQs, and policies can be accessed at <https://www.latech.edu/coronavirus/>

Students needing testing or classroom accommodations based on a disability are encouraged to discuss those needs with me as soon as possible. For more information, please visit <https://www.latech.edu/current-students/student-advancement-affairs/disability-services/>

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.

In accordance with the Academic Honor Code, students pledge the following: "Being a student of higher standards, I pledge to embody the principles of academic integrity." For the Academic Honor Code, please visit <https://www.latech.edu/current-students/student-advancement-affairs/student-conduct-integrity/>

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 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 <https://www.latech.edu/current-students/student-advancement-affairs/university-police/emergency-notification-system/>