MIS2502: Data and Analytics

Welcome!

Fall 2022

FOX
MIS

Course Introduction

Instructor: Leila Hosseini

Email: Leila.hosseini@temple.edu

Website: http://community.mis.temple.edu/leila
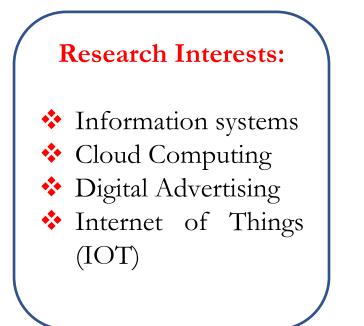
Introduction to Instructor

❖ Leila Hosseini

❖ Assistant Professor of Management Information Systems (MIS)

❖ PhD in MIS

❖ University of Texas at Dallas (UTD) Alumni

❖ Teaches Undergraduate Courses in MIS

❖ 20+ Years of Programming Experience

Introduction to Instructor

Research Interests:

- ❖ Information systems
- ❖ Cloud Computing
- ❖ Digital Advertising
- ❖ Internet of Things (IOT)

Business Communities:

- ❖ Boston
- ❖ Dallas

Introduction to Instructor

Office Hours:
- ❖ Mondays and Wednesdays 10:00 AM – 12:00 PM.

- ❖ And also, by appointment. Please email me to schedule your meeting.

Email:
leila.hosseini@temple.edu

Office:
Speakman 206E

Introduction to Instructor

Email Policy:

❖ Make sure that you always place our course name and section in the subject line. See below for an example:

Subject: MIS 2502 sec 001
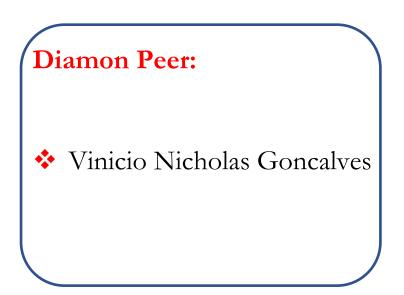
Course Support

Information Technology Assistant (ITA):

❖ Hojoon Jacob Lee

Diamon Peer:

❖ Vinicio Nicholas Goncalves

Course Support: ITA

Hojoon Jacob Lee

❖ Email: jrhojoon@temple.edu

Office Hours

❖ Fridays, 1:00 PM-3:00 PM

❖ Zoom: https://temple.zoom.us/my/hojoonjacoblee

Course Support: Diamond Peer

Vinicio Nicholas Goncalves

❖ Email: vinicio.goncalves@temple.edu

Zoom Office Hours Link

❖ **https://temple.zoom.us/j/98529854863**

Course Sites

MIS Community Course Site (CCS):
https://community.mis.temple.edu/mis2502sec001fall2022/

Canvas Site (for In-Class Activities and Assignments):
https://templeu.instructure.com/courses/117787

Graded Components

Component	Percentage
In-Class Activities * must be present in class to earn credit – no exceptions! * Students may miss up to two in-class activities. All activities are graded pass/fail based on due diligence.	5%
Assignments (9)	35%
Exam #1 (9/30 during class time)	20%
Exam #2 (10/28 during class time)	20%
Exam #3 (12/2 during class time)	20%

Link for Grading Webpage: https://community.mis.temple.edu/mis2502sec001fall2022/about/grading/

Grades will be available Gradebook on CCS.

Assignments

#	Assignment
1	Database Schema
2	SQL #1 – Basic query
3	SQL #2 – Advanced query
4	NoSQL #1 – Basic query
5	NoSQL #2 – Advanced query
6	Introduction to working with Python
7	Decision Trees
8	Clustering
9	Association Rules

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Late Assignment Policy

- All assignments will be assessed a 20% penalty (subtracted from that assignment's score) for **every hour** they are late.

- *Equipment failure is **not an acceptable reason** for turning in an assignment late*

In-Class Activities (ICAs)

- You learn data analytics skills through

  1. Your own hands-on experience
  2. Interaction with peers and instructor
  3. Classroom presentation

- Deliverables:
  - Submit **by the end of the class**
  - Graded based on **completeness** and **correctness**
  - Graded by **success** or **fail**
  - Will **not** accept late submission
  - Allowed to miss two submissions for in-class activities

Plagiarism and Academic Dishonesty

- Copying material directly, word-for-word, from a source (including the Internet)

- Turning in an assignment from a previous semester as if it were your own

- Having someone else complete your homework or project and submitting it as if it were your own

- Using material from another student's assignment in your own assignment

- Penalties for such actions can range from a failing grade for the individual assignment, to a failing grade for the entire course, to expulsion from the program.

A Note on Regrade Requests

- Must be submitted within 1 week of the date when the grade was returned.

- I and the ITA reserve the right to regrade the entire assignment/exam and thus your grade may go up or down.

Laptop Requirement

- The software that we use in the course works on Windows and MacOS. Students should bring a laptop in class to follow the course materials (e.g., ICAs).

- Limited resources are available for students who do not have the technology they need for class. Students with educational technology needs, including no computer or camera or insufficient Wifi-access, should submit a request outlining their needs using the Student Emergency Aid Fund form. The University will endeavor to meet needs, such as with a long-term loan of a laptop or Mifi device, a refurbished computer, or subsidized internet access.

Professional Achievement Point Requirement (MIS Majors Only)

- All MIS majors are required to earn a minimum of **200 professional achievement points** by the end of the semester.

- Students who do not earn the minimum number of professional achievement points by the end of the semester will receive an "Incomplete" for this course

http://community.mis.temple.edu/professionalachievement/earn/

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Course Overview

- What this course is about

- Introduce you to some fundamental and widely used concepts and techniques in data analytics
  - designing and using database systems (e.g. SQL, NoSQL) and
  - analyzing business data (e.g. Clustering, Classification)
  - which have become part of today's "business language"

- Think about how you can use them in your future career

- Expose you to various software tools (MySQL, R, MongoDB) to solve actual problems

Course Overview

- What this course is NOT about

- Ask you to memorize definitions, formulas, algorithms, or software commands

    - Understanding and intuitions are far more important than short-term memory, and a lot harder to forget

    - In any homework/exam, I will never ask you to reproduce a definition, but will ask you to express your understanding of certain concepts

- Train you to be a skilled programmer