**Oklahoma City University**

**Database Design and Management   
(CSCI 3613 & 5303)**

**Fall, 2020**

**Project 02**

# **Part 1**

Using the entities, tables, columns you defined in Project 01:

* Class
* Student
* Instructor
* Announcement
* Grades
* Discussions
* Calendar

Create an Entity Relational Diagram (ERD) with tables, columns and relationships between tables.

# **Part 2**

Create SQL queries to create the tables with the following features (Upload a file “CreateTables.sql” with the queries):

* Primary Key(s) for each table
* Foreign Key(s) to relate tables
* Constraints on columns where needed
* Default values on columns where needed

# **Part 3**

Create INSERT SQL queries to insert data into all the tables. You can make up the data but create at least 5 rows per table.

# **Part 4**

Write SQL queries for the following and upload them as “Queries.sql”

1. List all the student’s names and their current grade (take the scores and displaying the average)
2. List the calendar of events.
3. List the average for each grade/test.
4. List all the classes an Instructor teaches and how many students are in each class.