

## DATABASE DESIGN & DEVELOPMENT

Spring Fall 2022\_2023

**Section: 7**

**Task #: 1**

**Date: 16/03/2023**

Please develop a conceptual model for each of the two provided scenarios using crow's foot notations. Utilize draw.io to create the corresponding diagrams and include your full name as a text in the top of each diagram. **The submission deadline is Saturday 18/03/2023 at 11:59 PM.** Please submit both files as a compressed file with your ID and name via the E-learning system. **Please refrain from cheating as the objective is to teach you and ensure your comprehension of the topic.**

### **Scenario-1: Scenario: University Course Catalog**

Design a database for a university course catalog that allows students to search for courses, view course descriptions and courses prerequisites, and enroll in courses. Each course is associated with a single instructor, and each instructor can teach multiple courses. Each course is associated with a single department, and each department can offer multiple courses. Each student can enroll in multiple courses. Each course can have multiple prerequisite records associated with it.

### **Scenario-2: Scenario: Medical Clinic**

Design a database for a medical clinic that manages patient records, appointments, and medical staff. Each patient can have multiple appointment records associated with them. Each staff member can have multiple appointment records associated with them. Each patient can have multiple medical records associated with them. Each staff member can have multiple medical records associated with them. Each patient can have multiple billing records associated with them.