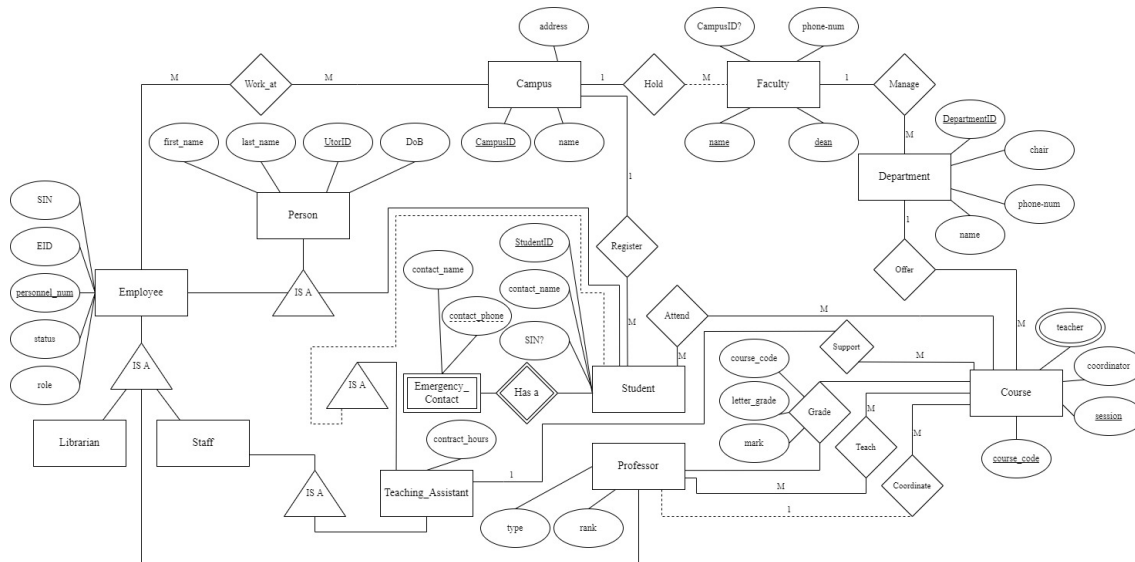# CSC343 Lab 2

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1. **ER Diagram**

Explanations:

- A Faculty 'can' be held by a campus, which is indicated by Faculty's partial participation in the Hold relationship, and an optional CampusID attribute.

- Since the attributes course_code and session together forms the entity set Course's Primary Key, every entity in the set is a unique session of a course (e.g. CSC343 L9101).

- Emergency_Contact is a weak entity set, which depends on Student's StudentID attribute to form its primary key.

- A Student 'can' be a Teaching_Assistant, which is denoted by Student's partial participation in the IS A relationship. The SIN attribute of a Student is optional, but if the Student is a TA, then they inherits the SIN attribute from Employee.

- It is assumed that Professors must teach courses, thus the total participation in relationship Teach.

2. **DDL**

See lab2.ddl.