# Computer Engineering Department

King Mongkut's University of Technology Thonburi

**CPE 241 Database**

**Review Exercise**

**Date:** No Submission

We are going to perform a full circle database design from the following requirements.

- students, courses, departments, registration, and grades

- movies, actors, act-ins, directors, reviews

- customers, orders, products, product_line_items, payments

**STEP 1:** Draw conceptual level ERDs that represent attributes and relationships

**STEP 2:** Add more detail to ERDs to create logical level diagrams that include foreign keys and other constraints. Don't forget to specify cardinality.

**STEP 3:** Draw physical level ERDs or create database schemas that include data type and data domain

**STEP 4:** Write SQL statements to create tables that keep the data

**STEP 5:** Generate examples data and insert them into tables

**Remark:** Don't forget to review alter and update table