# COSC 3318: Database Management Systems

# (Assignment 1)

**Assigned on September 11, 2017 Hardcopy due at the start of class on September 25, 2017.**

Consider the following tables:

Student (sid, sname)

Enrolled (sid, cid）

Course (cid, professor)

×, ∞, π, σ, ≥, ∩, -, Ս, ≤

Give the following queries in **Relational Algebra** (50 points).

1. What are the names of students enrolled in ‘cs3020’?

Student(sid) U enrolled(sid)

1. Which courses is ‘Victor’ taking?
2. Who teaches ‘cs1500’?
3. Who teaches ‘cs1500’ or ‘cs3020’?
4. What are the names of students in ‘cs1500’ or ‘cs3010’?

Given the following table schema of student, enrolledIn, and subject:

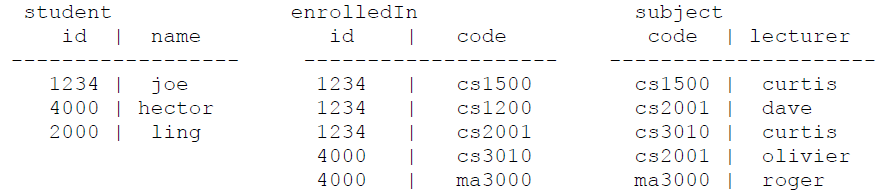


Figure out which **Relational Algebra** expressions were used to obtain each of the following tables (50 points).



