Business Rules:

1. A student is identified with a unique student number and has a name.
2. A course is identified with a unique course ID. A course has a course number and a course code. A course may include a discussion/problem/lab sessions.
3. Students can enroll between 0 to 7 courses per semester.
4. A course session can be either a discussion session, a problem session, a lab session or a lecture session, but cannot be multiple of them at the same time.
5. A course must have at least one lecture session. A course can have multiple course sessions.
6. A course can either have a discussion session or a problem session, but not both at the same time.
7. There can be multiple or no course sessions of each type for a given course. (For example, a course can have a lecture session, three lab sessions and two problem sessions.)
8. If a course has lab sessions or problem sessions, the student must be enrolled in one of each session type in order to enroll in the course.
9. A course can have multiple prerequisite courses, which must be previously taken by a student to be able to enroll.
10. A course session is identified with a unique class number. A course session has their class capacity, class start time and class finish time. Each course has its duration in minutes. Each class is given on specific days each week.
11. A department is identified by its unique department ID. A department has a name.
12. Multiple students are registered in a Department.
13. A department offers multiple courses.
14. Each lecture session has its instructor name. Each lab and problem session has it’s teaching assistant name.
15. Students previously passed courses are recorded.