

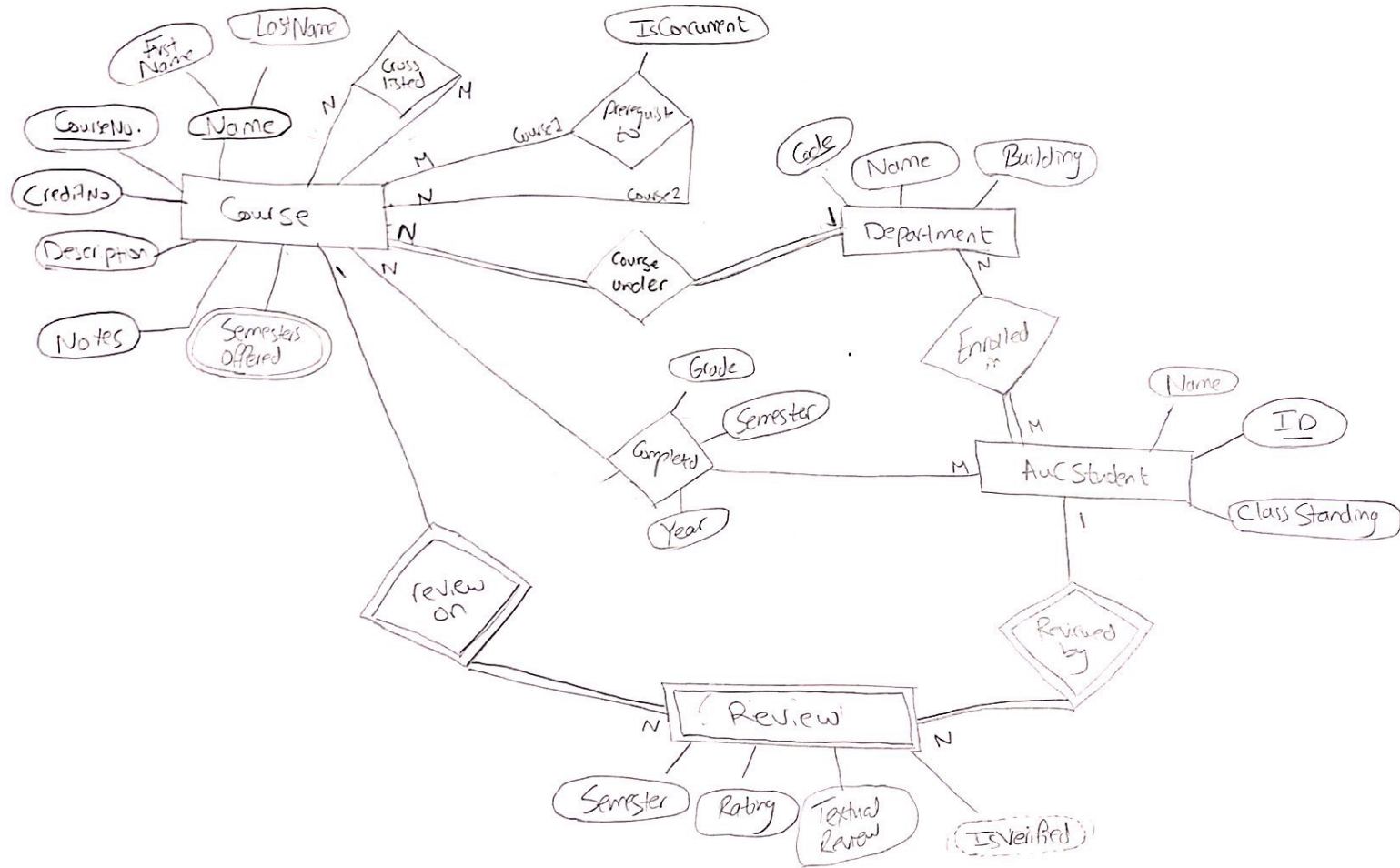
Fundamentals Of Database

Milestone I

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ERD
Diagram



Notes on ERD :-

- (1) "Enrolled in" relation is many-to-many between student and department to take into consideration students with more than one major
- (2) Cross-listing is taken care of through many-to-many relationship of "cross-listing".
- (3) From my understanding of the data requirements, each student needs to be specified a department (my assumption is that the department here represents the major, hence point 1 mentioned above)

Relational
Model

Course (No., Name, Credit No., Description, Notes, Difficulty)
PK
FK

Department (Code, Name, Building) # Assuming Code is short version of Dept name, e.g. Anthropology is ANTH
PK

CourseCrossListed (Course1No., Course2No.)
FK FK

Course 1 is cross listed with Course 2

CoursePrerequisite (CourseNo1., ToCourseNo1., IsConcurrent)
FK FK

Course 1 is prerequisite to Course 2

CourseSemesterOffered (CourseID, Semester) # In case it is offered in more than one semester
FK PK

Acc Student (ID, FName, LName, ClassStanding)
PK

StudentCoursesCompleted (StudentID, CourseNo, Grade, Semester, Year)
FK FK

StudentEnrolledDept (StudentID, DeptName)
FK FK

StudentReviewCourse (StudentID, CourseNo, Rating, Textual Review)
FK FK

The (isVerified) is a derived attribute that will be calculated during retrieval by comparing CourseNo. in this entity with StudentCoursesCompleted for the student with same ID. This is why the isVerified is not shown in relational model