341 Relational Schemas for the ER Diagram

▭ Represents Entity-Set Schema.

◇ Represents Relationship-Set Schema.

__ Underlined attributes represent “key” attributes which are crucial to differentiating one set from another.

Note: In the ER Diagram, any sets with double sided borders represent “Weak Entity-Sets”. This means that they do not have any key attributes which would make them necessarily unique.

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◇ **Contains(classNumber, lectureSectionNumber, labSectionNumber, tutorialSectionNumber)**

▭ **Laboratory(labSectionNumber, instructorName, days, times, location)**
▭ **Lecture(lectureSectionNumber, instructorName, days, times, location)**
▭ **Tutorial(tutorialSectionNumber, instructorName, days, times, location)**

◇ **MemberOf(classNumber, lectureSectionNumber, labSectionNumber, tutorialSectionNumber)**

▭ **Course(classNumber, courseTitle, description, waitlist, capacity, sessions, term, credits, prerequisites, corequisites)**

◇ **SelectedWith(classNumber, term, courseList)**

▭ **Course_Selection (term, courseList)**

◇ *Uses(builtScheduleID, term, courseList, days, times, numberOfCourses, constraints, completedCourses, academicRequirements) ???*

▭ **User_Preferences(days, times, numberOfCourses, constraints)**

▭ **Student_Record(completedCourses, academicRequirements)**

▭ **Schedule_Builder(builtScheduleID)**

▭ **Optimized_Sequence(optimizedScheduleID)**

◇ **Optimizes(builtScheduleID, optimizedScheduleID)**

◇ **Initiates(builtScheduleID, studentID, facultyID)**

▭ **Teacher(facultyID, teacherName, courseHistory, courseList)**

▭ **Student(studentID, studentName, programOfStudy, academicRecord)**

◇ **IsAccountOwner(netname, studentID, facultyID)**

▭ **User(netname, password)**