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 lines represent "Weak Entity-Sets". This means that they do not have any key attributes which would make them necessarily unique.
♦ Contains(<u>classNumber</u> , <u>lectureSectionNumber</u> , <u>labSectionNumber</u> , <u>tutorialSectionNumber</u>)
 Laboratory(<u>labSectionNumber</u>, instructorName, days, times, location) Lecture(<u>lectureSectionNumber</u>, instructorName, days, times, location) Tutorial(<u>tutorialSectionNumber</u>, instructorName, days, times, location)
MemberOf(<u>classNumber</u> , lectureSectionNumber, labSectionNumber, tutorialSectionNumber)
□ Course(<u>classNumber</u> , description, courseTitle, waitlist, capacity, sessions, term, credits, corequisites, prerequisites)
SelectedWith(classNumber, term, courseList)
□ Course_Selection (term, courseList)
♦ Uses(<u>builtSchedule</u> , term, courseList, days, times, numberOfCourses, constraints, completedCourses, academicRequirements)

□ User_Preferences(days, times, numberOfCourses, constraints)
□ Student_Record(completedCourses, academicRequirements)
□ Schedule_Builder(<u>builtSchedule</u>)
□ Optimized_Sequence(optimizedSchedule)
Optimizes(builtSchedule, optimizedSchedule)
♦ Initiates(builtSchedule, studentID, facultyID)
□ Teacher(<u>facultyID</u> , teacherName, courseHistory, courseList)
□ Student(studentID, studentName, programOfStudy, academicRecord)
♦ IsAccountOwner(<u>facultyID</u> , <u>netname</u>) ♦ IsAccountOwner(<u>studentID</u> , <u>netname</u>)
□ User_Account(<u>netname</u> , password)