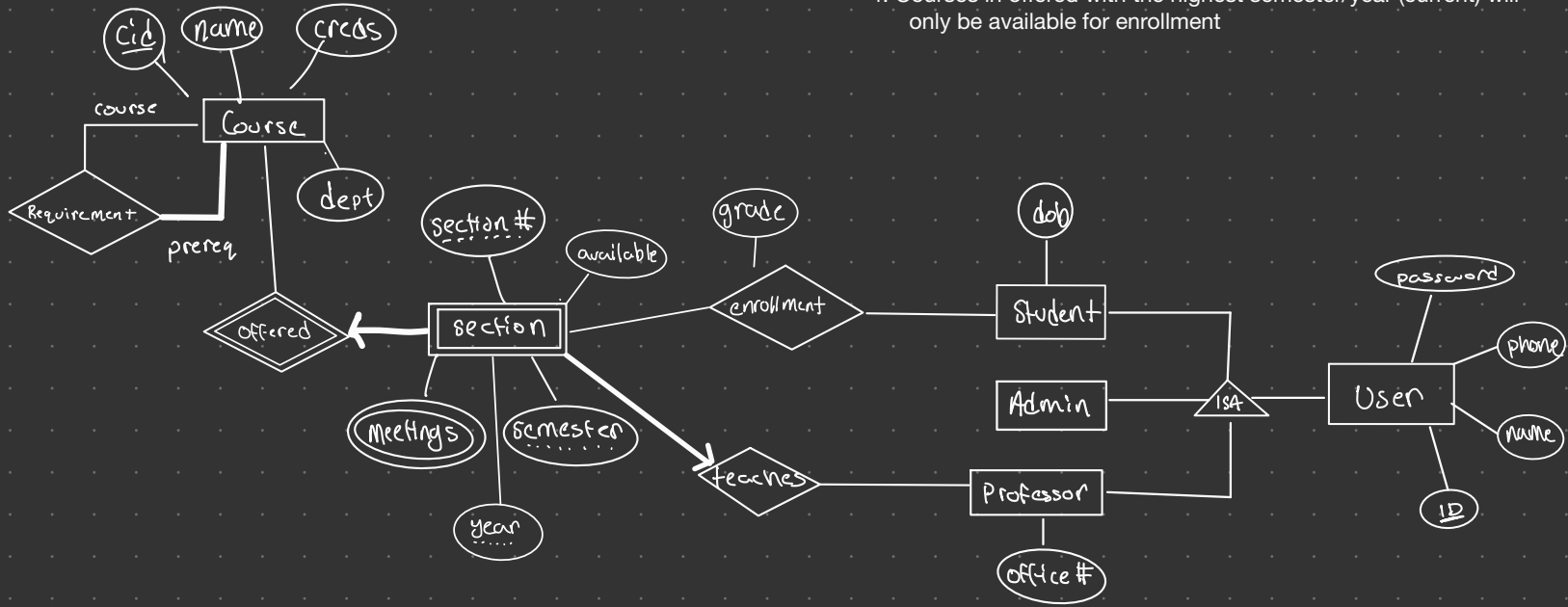


ER Diagram:

Assumptions:

1. Add period ends before the start of each semester
(prevents students from enrolling in a course and its prereqs within the same semester)
2. Possible grades are A,B,C,D,F. Original grades of courses that have been retaken will have an R prefix.
3. Only Spring and Fall semesters are offered
4. Courses in offered with the highest semester/year (current) will only be available for enrollment



Relational Schema:

Course (cid: char(7) primary key,
name: varchar(20),
dept: varchar(10),
credits: int)

Requirement (course-cid: char(7),
prereq-cid: char(7),
primary key (course-cid, prereq-cid)
foreign key (prereq-cid) references Course
foreign key (course-cid) references Course NOT NULL)

Offered (cid: char(7),
section: int,
semester: varchar(10),
year: int,
available: boolean,
pid: int,
primary key (cid, section, semester, year),
foreign key (cid) references Course NOT NULL
foreign key (pid) references Professor NOT NULL)

Users (id: int primary key, password: varchar(20),
name: varchar(30), phone: varchar(16),
dob: date, office#: int)

Enrollment (cid: int,
section: int,
semester: varchar(10),
year: int,
sid: int,
grade: varchar(3),
primary key (cid, section, semester, year, sid)
foreign key (cid, section, semester, year) references Offered
foreign key (sid) references Student)

Meetings (cid: char(7),
section: int,
semester: varchar(10),
year: int,
meeting: varchar(35)
primary key (cid, section, semester, year, meeting)
foreign key (cid, section, semester, year) references Offered)