COIS 3400H Fall 2023 Lab 7 UML

Draw a UML for following registration system. Identify weak entity class(es) if exists. You can use tools such as Dia or draw.io

Each student is represented. The information about a student is the student number(StudentNum) which is unique within the system, the name(sName), and the major(Major) of the student. A student takes at least one at most 6 course sections. The grade(Grade) for each course section taken by a student is recorded. A student is advised by one faculty.

Each course section is represented. The information about a course section is the section ID(SectionID) which is unique within a course, the semester(Semester), and the year(Year) of the course section. A course section has to have at least 12 students enrolled.

Each faculty is represented. The information about a faculty is the faculty ID(fID) which is unique within the system), the name(fName), and rank(Rank) of the faculty. A faculty teaches three or four course sections. A faculty works in one department. A faculty heads zero or one department. A faculty advises one or more students.

Each course is represented. The information about a course is the course number(CourseNum) which is unique within the system, the title(Title), and the credits(Credits) of the course. A course is offered by one department. A course may have one or many course sections. A course may require zero or many courses as prerequisite. A course may be the prerequisite of zero or many course.

Each department is represented. The information about a department is the department name (dName) which is unique within the system, the office(Office), and the phone(Phone) of the department. A department may offer many courses and it has exactly one chairman. A department may have many faculty works for it.

A screenshot of a computer

Description automatically generated