Student Scheduling Database (Rough Draft Revision 1)

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This database will assist students in the stressful activity of creating a class schedule. It will find major and gen-ed courses for next semester. It will then compare times and alert the user of conflicts. One example could be that a student wants to know if there is a Biology 210 class at 10 AM. With this database, a student can send this request and the database will find any BIO210 courses with openings at 10AM. Also, this database will contain information on office hours for professors and tutors for the courses in the database. So for example if the same student that has enrolled in said BIO210 now wants to find a tutor, they can send a query to the database that asks for Biology tutors, and the database can give  a list of these tutors and their times and possibly their location on campus. The process is similar for finding professors’ office hours. The database could also store the courses taken by students and the credits they have earned so far. This will allow us to add prerequisite attributes and return cleaner, more accurate results.

We will obtain data from the Winona State course listings on the eServices website. This source offers a list of all courses, their times held, location, credit value, prerequisites,as well as the department that offers them. We will then make use of the Winona’s undergraduate catalog. We will group the classes by majors and later by required and elective credits. Ideally, we would be able to pull data from a DARS. Since we do not know how to pull data directly from the web, we will probably have to hard-code in an example student. Although this will make our database less accessible, a few sample students will be enough to test our features.

Steps for completion of the database:

1. Finalize relations that will be contained within the database
2. Generate a ER diagram as well as ERD for each relation
3. Data collection
4. Organize data within the database
5. Begin generating queries for the database/ example queries for presentation
6. Begin final report
7. Create Presentation