Acknowledgements

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Problem

Our team created an agent-based program to advise the administration at UW Eau Claire when a new class should be scheduled.

In our creating our model, we used MATLAB to parse and analyze the data from the files we were provided.

The goal of this project is to improve and ease the decision making process for course scheduling.

Assumptions

- Top 73 courses taken by incoming freshmen does not change year-to-year
- Courses not in the top 73 are negligible
- Student course choices are similar across academic years
- The top 1% of most frequently taken course combinations are commonly taken together.

Analyzing Data

We were given these Excel files:
- Top 73 Course List
- History of courses incoming freshmen registered for
- Course information for the upcoming semester

Future Work

- Use MATLAB to find the minimum number of conflicts from the bar graph
- Find the minimum number of conflicts for each day, then create the graph an entire week of conflicts
- Take into consideration the number of credits for each course to support a text output of a scheduling recommendation

The outputted graph provides a visual way to determine when to offer a new section of a class. It displays the number of conflicting courses are offered each hour on a given day. The times with the least amount of conflicting courses would be the best to schedule a new course section.