Web-based Interactive Degree Pathways

**Goal:** Design a web-based, interactive tool to help students visualize and explore SCI degree pathways based on their academic interests and personal timeline

**Background:** Currently, the most common tool for degree planning is a student’s degree audit or AAR, which can be accessed in Peoplesoft. This tool has numerous limitations, however. It is hard to read, does not show the prereq/coreq structure of the classes, and is not linked to course descriptions. Many universities create flow charts as a tool to recommend a timeline and flow of classes, but they also lack interactivity and often are visually confusing.

**Solution:** We would like a tool that is visually clear, captures the prereqs/coreqs between courses,

helps a student plan backwards based on their area of interest within a major (e.g. concentrations/specializations/set of electives), helps students to explore the best path for common double major or major/minor pairings, and links the courses to their course descriptions. In addition, we’d like to show what these paths would look like for students intending to complete their degrees over different durations.

**Helpful skills**: Experience with web frameworks, data integration, interactive UI Design

**Team Size**: 3-4 Students

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