**Data Requirements**

**Institutional Data**

* Course catalog
* Degree and major requirements
* Course evaluations

**External Data**

* Relevant Reddit threads
* Internal forums for student organizations (ex. AKPsi class talk)

**User Input**

* Professional interests
* Academic history (student transcript)
* Constraints (ex. preferred number of credits, workload in hours per week, core curriculum vs. major / minor requirement)

**Data Pipeline**

**Scraping and Data Collection**

* Course descriptions
* Course evaluations
* Reddit: collect relevant posts and comments

**Data Integration**

* Normalize and clean data from various sources
* Use NLP to extract key information (ex. professor ratings, difficulty mentions, workload)

**MVP**

**Core Features**

* Personalized course recommendations given provided input
* Schedule builder with conflict resolution
* Degree requirement tracking
* Integration of course evaluations

**Future Features**

* Integration of Reddit
* Workload predictions
* Professional interest alignment

**User Flow**

* Login page with email and password, upload transcript
* Display user name, start quarter, majors, minors, overall gpa, courses taken (to check if pre-req is fulfilled) and grade associated with the course (for personalized recommendation given academic history – for future implementation)
* Ask user how many courses she wants to take next quarter (multiple choice with answer being 3 or 4)
* Ask user if they have any day / time preferences for classes
* Ask user what requirements she wants to fulfill for each course
  + List out course 1, 2, 3 (, and 4) with toggle down list options being x major requirement, x minor requirement, core curriculum
* Give recommended courses and associated sections