INTERACTIVE VISUALIZATION FOR DEGREE NAVIGATION

Ivan Song | CPSC 547
Pain Points

• Searching for courses to take is time consuming

• Want to find courses that are interesting, fit our requirements, and are not too difficult

<table>
<thead>
<tr>
<th>Third and Fourth Years - 18 Credits</th>
<th>Complete</th>
<th>CIP</th>
<th>Missing</th>
<th>Applied Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 credits from PSYC Module Courses</td>
<td>✓</td>
<td></td>
<td></td>
<td>PSYC304 (6, 2020S, 77)</td>
</tr>
<tr>
<td>6 credits from Non-PSYC Module Courses</td>
<td>✓</td>
<td></td>
<td></td>
<td>CPSC344 (3, 2019W, 87) ; CPSC444 (3, 2020W, 86)</td>
</tr>
<tr>
<td>6 credits from Any Cognitive Systems module courses numbered 300 or above</td>
<td>✗</td>
<td>6</td>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>
Pain Points

• Difficult to visualize requirement connections between courses
Solution

A interactive visualization to help students determine the course path to their degree

• Visualize course options to satisfy requirements and showcase connections to pre-requirements

• Allow comparisons between courses in terms course attributes (past averages, # of pass, # of fail)
Why I want to do this project?

- We are the users
- Real use and benefits