CourseComb Demo

A fast way to narrow down your course selection



The Problem

The Current State of the Art



A manual, tedious process...

What We Want

An automatic way of creating possible schedules

Demo

How it works

- 1. Generating course combinations
- 2. Displaying interactive events on calendar
- 3. Favoriting a schedule
- 4. Database structure

Generating Course Combinations



Displaying interactive events on calendar



Favoriting a schedule











Database Structure Overview

Profile	
user	One-to-One
courses	Text

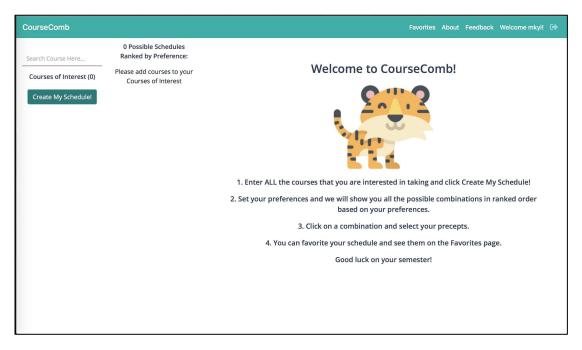
Favorite	
profile	ForeignKey
name	TextField
courses	TextField
favorite_fields	ArrayField(TextField)

Filter	
profile	One-to-One
number_of_courses	SmallIntegerField
must_courses	ArrayField(TextField)
must_dept	ArrayField(TextField)
distribution	ArrayField(TextField)
priority	ArrayField(TextField)
no_friday_class	BooleanField

Combination	
profile	ForeignKey
comb_id	SmallIntegerField
course_combo	TextField
registrar_combo	TextField
filtered	BooleanField

The User Interface

Upon first glance...



Course Search

→ jQuery's Autocomplete

eco

ECO 101: Introduction to Macroeconomics

ECO 300: Microeconomic Theory

ECO 100: Introduction to Microeconomics

ECO 362: Financial Investments

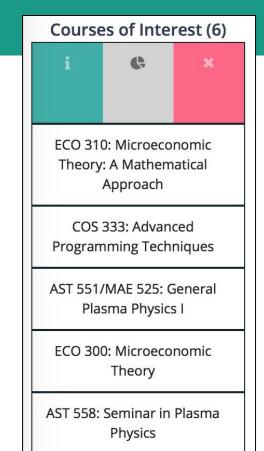
ECO 324: Law and Economics

ECO 501: Microeconomic Theory I

FCO 165. Ontions Entures and

Your Course Queue

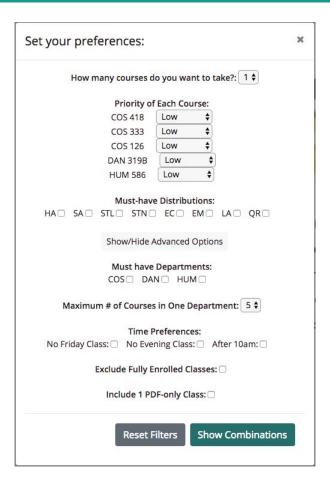
- → A list of all selected courses
- → No limit to how many courses can be selected
- → Interactivate slide buttons for accessing registrar info, course ratings, and deleting from course queue
- → Click the button to continue!



Create My Schedule!

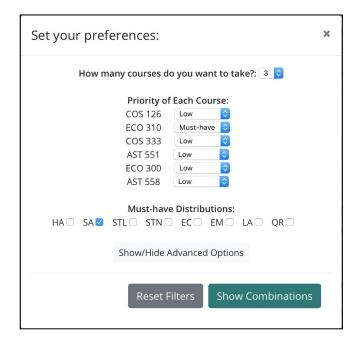
Selecting Your Filters

- → Clicking the button leads to a pop-up of filters
- → Select your filters and click "Show Combinations" to see possible schedules



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Your Combinations

Possible Schedules:

ECO 310, COS 126, AST 558

ECO 310, COS 126, COS 333

ECO 310, COS 126, AST 551

ECO 310, AST 558, COS 333 4 Possible Schedules Ranked by Preference:

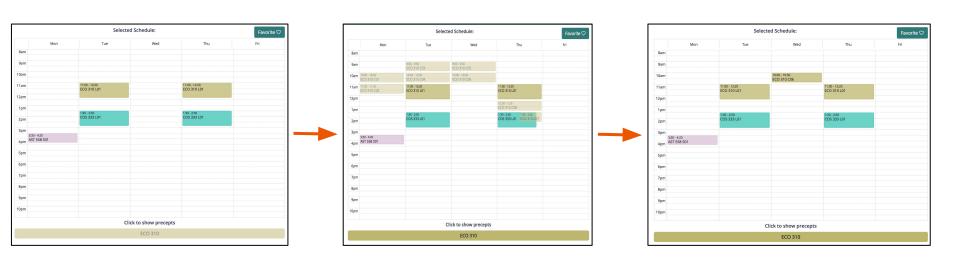
1. ECO 310, COS 126, AST 558

2. ECO 310, COS 333, AST 551

3. ECO 310, COS 333, AST 558

4. ECO 310, COS 126, AST 551

Your Selected Schedule



How have we solved the problem?

- 1. Automatic calculation of course combinations
- 2. Filters to exclude unwanted information
- 3. Ability to show precepts separately

Ways to improve in the future

- 1. Export to iCal / Google Calendar and TigerHub
- 2. Optimize speed of calculating combinations
- 3. Enable 'Shopping Period' mode

Thank You!