

Title:

Help me graduate ECE :(

Summary:

We will create a website that will increase the rate of graduation for ECE majors. This will help incoming freshmen in ECE plan out their academic schedules for their 4 years at UIUC. This will also help them choose their professors. This is also a good website for sophomores, juniors and seniors to reference back to during course selection.

Description:

Our project rates all of the required courses in the ECE department. We will rate these classes by average GPA, professor, class size, etc. We will give these classes a rating based on the A, B, C, D, F scale. We will also create a final flow chart for the most optimal class schedules from freshman to senior year. This will not only include the most optimal classes to take, but also the best professors to take it with. This flowchart will take into account the 1-of-6 requirement for CE major and 3-of-6 requirement for EE majors. We will have a user sign up and login to make sure only Illinois students can access this data. You must have an Illinois email account to sign up.

When ranking classes, we will also include a small description about the class and if it has a discussion or lab section. In the class description we will talk about the type of work required. This will include homework, MP/Lab, discussions, and Exams. This will give the user a better gauge on what each class requires and can help when picking a class. This will also give the user a more realistic idea of how a class is structured.

Usefulness:

This website will be useful to not only students at UIUC but also counselors. There are multiple resources that are currently available to students to help pick their classes such as reddit, rate my professor, waf cs GPA visualizer and more. This website will basically combine all these resources to help students figure out their class schedules based on professor, class description, and GPA. This website will also be useful to counselors when meeting with their students. They can refer to this website when advising them.

Realness:

We are going to get out data from various sources. We will get information from:

- Waf CS GPA visualizer
- Rate my professor
- R/ UIUC comments on Reddit
- Course explorer
- ECE advising website

From these websites we will get:

- Average GPA for each class
- Difficulty level for each class and each professor
- Student feedback from classes and professors
- CRN and course names
- ECE curriculum flowchart for graduation

Functionality:

Insert:

We will insert all the data that we collected from these various websites. We will have numerical data and non-numerical data. We will have to insert new data each semester.

Update:

We will have to modify the numerical and non-numerical data as semesters finish and new ones begin. Average GPA, and number of students will change as a semester finishes.

Delete:

Sometimes the course requirements change for graduation. So, we might have to delete some courses. For example, it was a requirement to take MATH 286 but now ECE majors have to take MATH 285 and MATH 257.

Order By:

We will order these classes by the level of class. It will do in ascending order:

- 100-level
- 200-level
- 300-level
- 400-level

UI:

Roughly drew by hand (by Srishti Modgil), subject to change.

HELP ME GRADUATE 😊	
course name, course number, ^{course} difficulty level	
- course description	
- professors - professor ratings	
- Avg GPA	
course name 2, course number 2, ^{course} difficulty level 2	
- course description 2	
- professors2 , professor ratings 2	
- Avg GPA 2	
: so on.	

Work distribution:

Team Leader: Xinzhuo Li

UI designer: Srishti Modgil

Database developer: Yang Chen

Full-stack developer: Zach George