

Course Correct: Senior Design Initial Project Proposal

Team No: 10

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Project Name: Course Correct

Project Synopsis: An improved version of GradPlan to help EECS students decide which courses to take each semester.

Project Description: We have found that the current GradPlan application for the EECS Department is insufficient on its own in guiding new and existing students on how to lay out their courses into each semester block. In response to this, we created GradPlan Graphic in EECS 448. GradPlan Graphic focused on visualizing course prerequisites and corequisites by adding arrows between the courses to help students understand how courses can and cannot be moved.

Course Correct will take this project further by developing a backend database and hosting for our application. We will provide stateful hosting, allowing for student plans to be saved under their KU login. We will develop an administrative interface, allowing department administrators to create and modify the degrees offered and alter the properties of courses such as prerequisites and seasons offered as the department grows and evolves. Staff will also have the ability to easily browse through student's plans, and students will be able to share plans with their advisors.

We will also make improvements to the user experience. We will incorporate more of the information hidden in the handbook, such as the requirements for senior electives. Error messages will be clarified and the prerequisite/corequisite visualization will be made easier to understand. We will also provide the ability for students to upload an academic summary from Enroll & Pay to automatically fill out completed courses, ensuring only those with a passing grade are counted. These changes will make the enrollment experience better for students and advisors.

Project Budget:

- Development/test server hosting for 8 months:
 - ~\$30
 - Possible options: AWS EC2, HostGator, Heroku, EECS servers, RPi
 - Need support for NodeJS and PostgreSQL

Project Milestones: See the attached file for our Gantt chart.