

Abstract: A New Course Registration System for Trinity

Edwin, Logan, and Bettina are working together to build a new course registration system for Trinity. The current course registration system works on a first-come, first-serve basis, which means that the last person to hit the “enroll” button during the enrollment period will likely be short changed and unable to get into their desired classes. Trinity can do better.

The team proposes replacing this rat race-like course registration process with an algorithmic system that takes into consideration a ranked list of course preferences submitted by the student. The project is therefore named the Priority Algorithm Processed Course Offering Application for Trinity, or PapCoat. The team will utilize the Simplex Algorithm, a linear programming optimization algorithm, which will match students with classes in order to maximize the student body’s overall satisfaction with the courses that they are enrolled in. This will ensure that students are taking the classes they find most enjoyable and feel motivated to learn.