

# **Automated features for improving the existing First-Year Seminar Assignment Program**

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### **Abstract**

Every first-year student at Dickinson College is required to take a first-year seminar. The summer before those students arrive, they each select six seminars from all seminar choices. Each student is then assigned to a seminar from their list. It used to be manually processed, and Dr. Richard Forrester and Thanh T. To devised mathematical techniques to assign first-year students to seminars. These mathematical techniques contributed to balancing the gender ratio and student-type ratio of the students in the classroom, and they were implemented via a Mosel program that Dr. Forrester created. This research aims to enhance the performance of the current program by generating various versions and evaluating each upgraded version to identify the most effective program that can successfully achieve its initial research objectives.

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