

CASE Study 3

Eastern State University (ESU) Background

The process of assigning Professors to courses and the registration of students is a frustration and time consuming experience.

After the Professors of ESU have decided which courses they are going to teach for the semester, the Registrar's office enters the information into a computer system. A batch report is printed for Professors indicating which courses they will teach. A course catalog is printed and distributed to the students.

Currently, the students fill out registration forms that indicate their choice in courses, and return the completed forms to the Registrar's office. The typical student load is four courses. The staff of the Registrar's office then enters the students' forms into the computer. Once the students' curriculum for the semester has been entered, a batch job is run overnight to assign students to courses. Most of the time student's get their first choice; however, in those cases where there is a conflict, the Registrar's office talks with each student to get additional choices. Once all students have been successfully assigned to courses, a hard copy of the students' curriculum is send to the student's for their verification. Most student registrations are processed within a week, but some exceptional cases take up to two weeks to solve.

ESU Course Registration Problem Statements

At the beginning of each semester, students may request a course catalog containing a list of course offerings for the coming semester. In addition, each student will indicate two alternative choices in case a course offering become filled or cancelled. No course offering will have more than ten students or fewer than three students. A course offering with fewer than three students will be canceled. Once the registration process is completed for a student, the registration system sends information to the billing system so that student can be billed for the semester.

Professors must be able to access the online system to indicate which courses they will be teaching, and to see which students signed up for their course offerings.

For each semester, there is a period of time that students can change their schedule. Students must be able to access the system during this time to add or drop courses.

The following findings will help you to identify actors and use cases.

- Student want to register for courses
- Professors want to select courses to teach.
- The Registrar must create the curriculum and generate a catalog for the semester.
- The Registrar must maintain all the information about courses, Professors and Students.
- The Billing system must receive billing information from the system
- The student needs to use the system to register for courses
- After the course selection process is completed, the Billing System must be supplied with billing information
- The Professor needs to use the system to select the courses to teach for a semester, and must be able to receive a course roster from the system.
- The Registrar is responsible for the generation of the course catalog for a semester, and for the maintenance of all information about the curriculum, the students, and the Professors needed by the system.