

Students' Grades Prediction In the end of the Semester

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Data Used

- Student ID
- Course Taken
- Semester
- Grade
- Declared Major

Data Selection

Select students from specific departments to include only students of related areas.

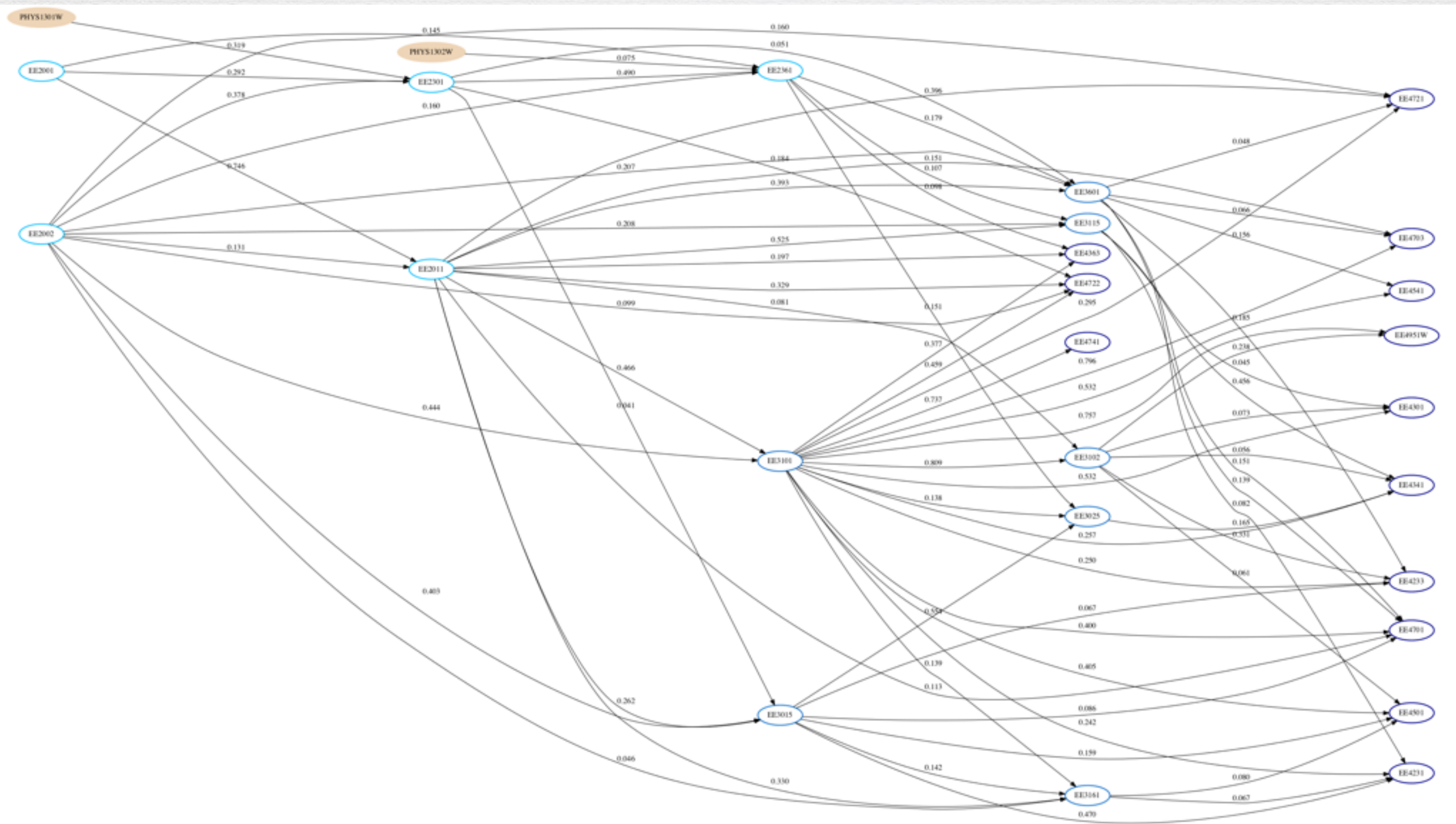
Course Specific Model (1/2)

- Select a course “target course”.
- Select students that took this course at some point.
- Create a data set with the courses the students took
prior

Course Specific Model (2/2)

$$\min_x \frac{1}{2} \|\mathbf{A} * x - b\|_2^2 + \mu \frac{1}{2} \|x\|_2^2 + c \|x\|_1$$

So, now what?...



Student-Specific Model

- Select a student “
- Find students that are similar to the AS, “
students
semester (regressors).
- Select a course of AS in their last semester.
- Create a data set with RS’s courses that are the same with AS if they took target course after the last regressor.

Error Per %Fraction of Prior Courses Used

