

The Student Data Warehouse (SDW) is a comprehensive aggregation of student-related data, including information about courses, instructors, departments, and the student. A subset of this data will be useful for (1) categorizing students based on backgrounds and (2) providing a predictor of student success. We will consider the academic state of a student before academic coaching (“pre-AC” state) and the academic state after the student is enrolled in the academic coaching program (“post-AC” state). Note that the data pulled from the SDW contains the student data for every semester they have been enrolled at CMU.

The following tables and fields are relevant to this project:

Table	Fields of Interest
COURSE_DROP	COURSE_ID, DROP_REASON, DROP_TIME, MIDTERM_GRADE, SEMESTER_ID
QPA	CUMULATIVE_QPA (for every semester), MID_SEMESTER_QPA, SEMESTER_ID
SCHEDULE	FINAL_GRADE, MID_SEMESTER_GRADE, SEMESTER_ID
STUDENT	CITIZENSHIP, CITIZENSHIP_COUNTRY_NAME, SEX, TOEFL
STUDENT_MAJOR_MINOR	COLLEGE, DEPARTMENT, MAJOR_MINOR_ID, MAJOR_MINOR_NAME, MAJOR_MINOR_TYPE, SEMESTER_ID
STUDENT RACE	RACE, RACE_ID

The COURSE_DROP table indicates which courses a student has dropped and also the semester and date/time in which it was dropped. This is useful for getting an idea for when in the semester a student dropped a course, and the “pre-AC” state of the student.

QPA information will be one factor used in the “pre-AC” and “post-AC” state considerations. This will be used in conjunction with the SCHEDULE table to determine whether mid-semester and final grades for a student’s courses are indicative of a change due to academic coaching. This will only be applied to students who enrolled in the AC program at the latest 2 weeks before mid-semester.

The remaining three semesters, STUDENT, STUDENT_MAJOR_MINOR, and STUDENT RACE have information about the student’s demographics.