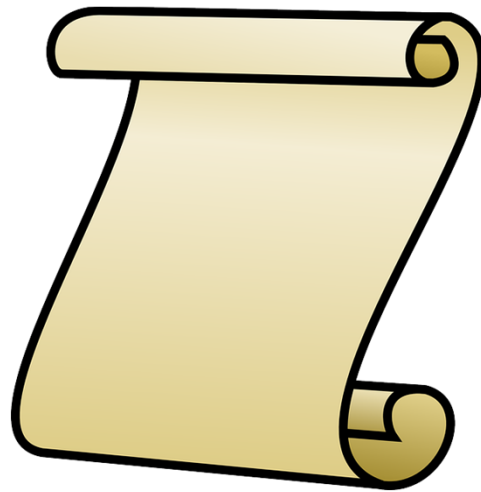


Demo: Entry Level Writing Requirement (ELWR) Data Analysis



UCOP IRAP Data Users Group
Matt Reed, 10/20/17

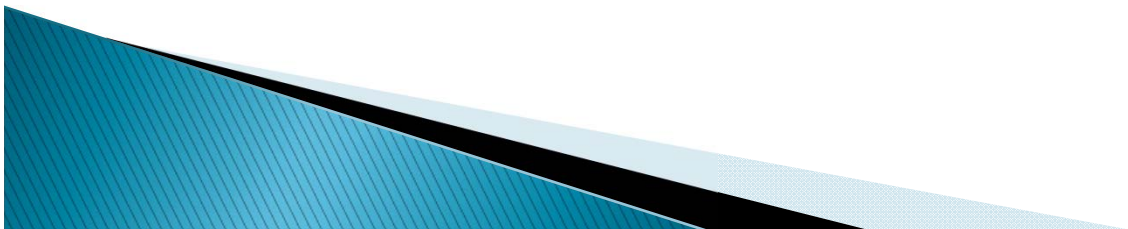
ELWR Report to UCOPE

ELWR = Entry Level Writing Requirement

AWPE = Analytical Writing Placement Exam

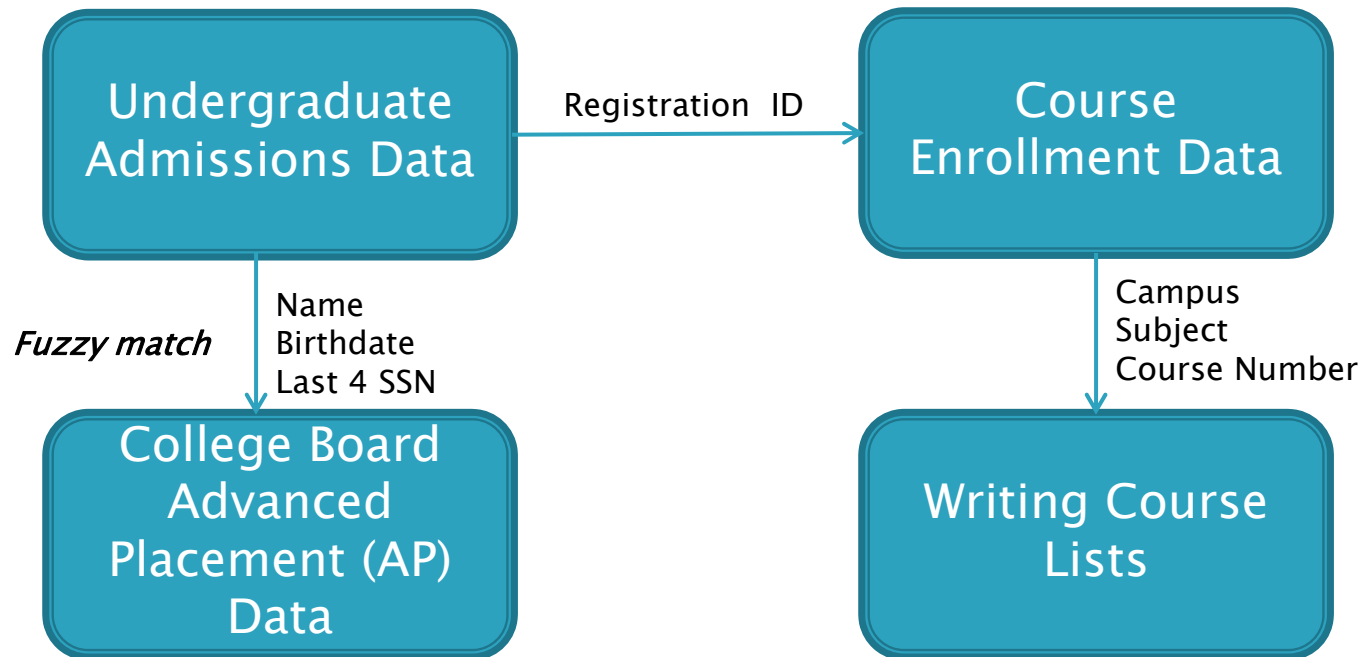
UCOPE = University Committee on Preparatory Education

- ▶ Needed for report to UCOPE (Academic Senate):
 - Correlations: SAT, ACT, AP, and AWPE vs. Lower-Division Writing Course Grade Point Average (GPA)



ELWR Report to UCOPE

Data Sources



Undergraduate Admissions Data

(UAD shadow system for F2016; related analysis used UCAP for F2017)

- ▶ **Cohort**
 - **Academic Year** (2016–17)
 - **Term** (Fall)
 - **Enrollment status** (Yes)
 - **Registration ID** (for matching to Course Enrollment data)
 - **Name** (for matching to College Board AP data)
 - **Birthdate** (for matching to College Board AP data)
 - **Last four digits of social security number** (for matching to College Board AP data)

- ▶ **Derived Test Scores**
 - **SAT Writing** (highest score; official if available otherwise self-reported)
 - **ACT Writing** (highest score; official if available otherwise self-reported)

- ▶ **Other Test Scores**
 - **Analytical Writing Placement Examination (AWPE)**



College Board Advanced Placement Data

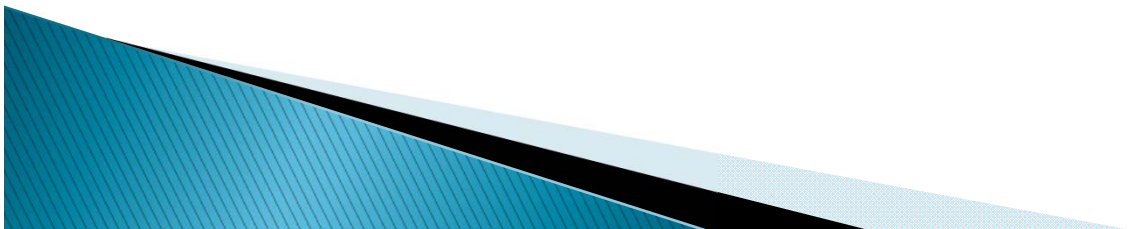
(2016 graduates of CA public h.s.)

▶ Student Information

- Name (for matching to UAD data)
- Birthdate (for matching to UAD data)
- Last four digits of social security number (for matching to UAD data)

▶ Official Test Scores

- AP English Language
- AP English Literature



Writing Course Lists

(from campus websites; reviewed/validated by campus writing coordinators)

- ▶ **Course Information (for matching to Course Enrollment data)**
 - **Campus**
 - **Subject**
 - **Course Number**



Course Enrollment Data

(UCDW → Student Schema → Course star)

- ▶ **Grade Point Average (GPA)**
 - sum of grade point units / sum of attempted units
- ▶ **Course Information**
 - **Subject** (for matching with Lower Division Writing Course Lists)
 - **Course Number** (for matching with Lower Division Writing Course Lists)
 - **Campus** (for matching with Lower Division Writing Course Lists)
 - **Term** (fall, winter, spring)
 - **Sub-term** (EOT)
 - **Academic Year** (2016–17)
 - **Course Enrollment Status Code** (E,W)
- ▶ **Student Information**
 - **Registration ID** (for matching to UAD data)

SAS Code (with SQL)

Select course enrollment data for courses on writing course lists,
calculate GPA → one record per student

1. Select variables and cases (columns and rows) needed from course data (one record per student per course)
2. Import writing course list and add courses with 'W' in course number from RV campus
3. Select the cases from #1 on the list in #2
4. Derive grades (for checking)
5. Calculate GPA (one record per student)



SAS Code (with SQL)

Select test score data, merge with course data, calculate correlations

1. Select test score variables from UG admissions data for relevant cohort (Fall 2016 incoming freshmen)
2. Import and fuzzy match to College Board AP data
3. Calculate correlations and save results to table

