

# RETROSPECTIVE STUDY OF ENGR 110 TO GAUGE THE IMPACT OF INSTRUCTIONAL CHANGES WITHOUT Q1/Q2 SCORES

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## PREMISE/BACKGROUND

ENGR 110 is a staple. Through 2012, ENGR 110 focused on CHOOSING A MAJOR. In follow-on years, the focus has pivoted to "design your engineering experience"

**ATTRIBUTES:** ~20% of ENTERING ENG STUDENTS TAKE 110  
 250 ENROLLEES OUT OF ~1200  
 CoE ADVISORS SUGGEST 110 TO MORE OPEN MINDED STUDENTS

OTHER COURSE CHANGES INCLUDE  
 TIME CEDED TO DEPTS FROM 2 HRS TO 30 MIN/DEPT  
 TUESDAY (LECTURE)/FRI (DA-LED DISCUSSION)  
 FRIDAY BREAK-OUT SESSIONS OF 19/DA  
 CHATS ABOUT VALUES, SOCIAL IDENTITY, AND SUPPORT

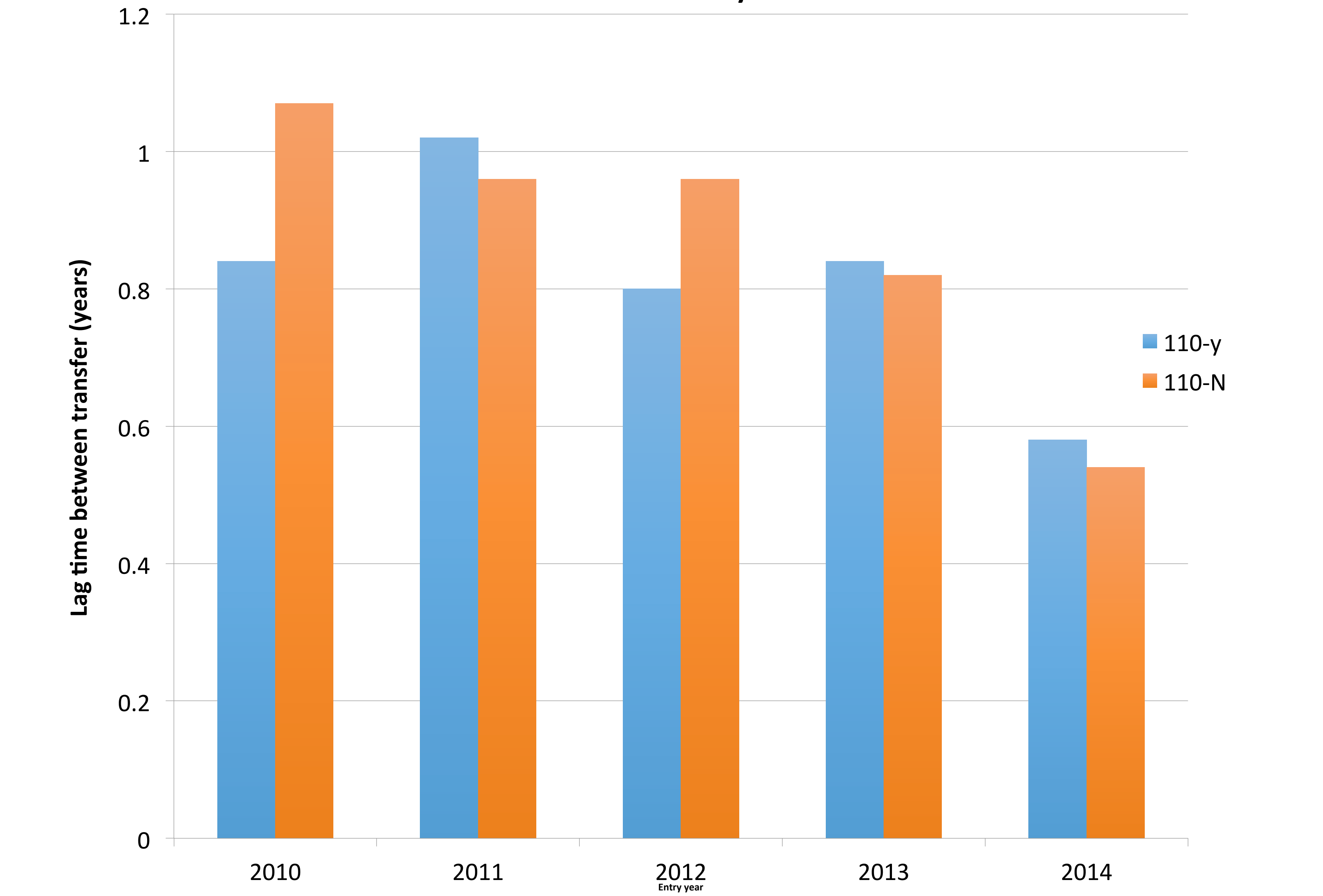
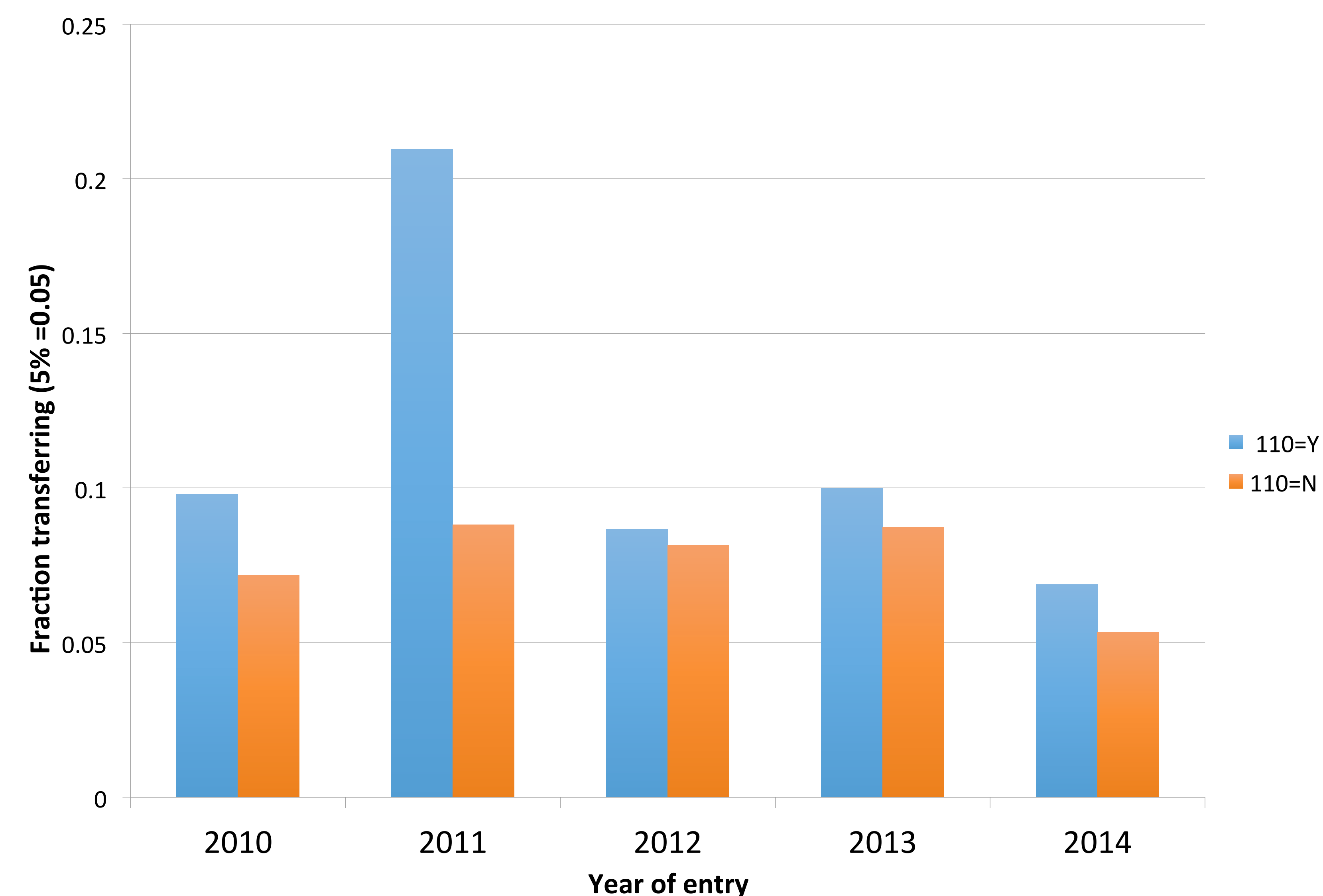
**GOAL:** TO EMPOWER ENGR 110 STUDENTS TO MAKE MORE INFORMED DECISIONS ABOUT CHOOSING A MAJOR.

*HYPOTHESIS: MORE INFORMED STUDENTS TRANSFER LESS OFTEN, THERE ARE COST AND DEBT IMPLICATIONS*

## DATA SAMPLING

THE CoE EXTRACTED DATA OF ~5K STUDENTS (2010-2015). CoE DATABASE INCLUDES:

- ENTERING TERM
- 110: YES OR NO
- INCOMING PREFERENCES if SHARED
- DECLARE DATE #1 & MAJOR
- DECLARE DATE #2 & MAJOR if applicable
- COMMON TRANSFER DIRECTIONS



## OBSERVATIONS

- STUDENTS DIRECTED TO ENGR 110 ARE PREDISPOSED TO HIGHER TRANSFER RATES
- 2011, A BANNER TRANSFER YEAR: ECONOMY/FAMILY AS SEPARATE PRESSURES ON ALL ENG STUDENTS?
- STUDENTS SEEM MORE INFORMED OVERALL, TRANSFER RATES ↓ AMONG ALL STUDENTS, BUT NOTE: INCOMPLETE GRAD STATS FOR '13, '14

## TRANSFER TRENDS

- COMMON TRANSFERS BETWEEN CS-COMP E-EE: ~25% OF ALL TRANSFERS
- CEE ↔ ENVE: 8% IN 2010
- IOE: NET +13% OF ALL TRANSFERS IN '10
- IN 2014, CS ACCOUNTS FOR 36/74 TOTAL TRANSFERS IN/OUT AND IOE ONLY 4/74 SO FAR
- OTHER, MORE UNIQUE MAJORS, USUALLY DON'T TRANSFER CLASP, NAME, ENG. PHYS.
- TRANSFER LAG TIMES FROM ORIGINAL DECLARE DATE AVERAGE 9 MONTHS



*CONCLUSION: RETROSPECTIVE META ANALYSES LIKE THIS MIGHT BE BETTER GAUGES OF ENGR 110 EFFECTIVENESS*