Insight XII Workshop
McCormick School of Engineering and Applied Science
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Selected data on STEM and engineering students and faculty

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Other includes American Indian, Alaskan, non-binary, and two or more races/ethnicities.
American Indians, Hawaiian/Pacific Islanders, and Two or more races/ethnicities are combined under other.

Whites decline from 65.4 to 61.5% from 2009 to 2018.
Data from the Northwestern University profiles posted at ASEE. profiles.asee.org.
Data on that site are organized by class, but it was supplied with the class according to CAESAR, so the classes there do not correspond well to a student’s year in school. Students advance in CAESAR based on units completed rather than year in school.
Students at 11 public universities between 1988 and 2009, mostly in the southeast US. MIDFIELD database. **Top:** Number of students who started in a major at year 0 (or on declaration) and who had graduated by year 6. **Bottom:** Percentages who finished a major of they had ever declared that major (red), and percentage who finished any engineering degree who started in that major (green). Lord, S.M. et al. A Disciplinary Comparison of Trajectories of USA Engineering Students. Frontiers of Education Conference Proceedings, 2014

**Multiple-Institution Database for Investigating Engineering Longitudinal Development**
Probability of graduating in engineering in 6 years or less. Data from public universities (MIDFIELD cohort). At lowest SES, all students qualified for free lunch; at highest SES, no students did. This measure of SES is of the students' schools' likely resources and peer cohort, not their own SES.

No correlation between this measure of SES and persistence to third semester of engineering, so lower SES students do not drop out during the first year, but low SES students had lower grades.

Figure 24.1. Number of degrees conferred by postsecondary institutions, by level of degree: Academic years 2000–01 through 2015–16

Number of degrees

- Bachelor's degrees
- Associate's degrees
- Master's degrees
- Doctor's degrees

Legend:
- Orange: White
- Red: Hispanic
- Gray: Asian
- Black: Black

Source: National Center for Education Statistics (NCES)
These are natural sciences, math, and engineering and computer science. Engineering and computer science are about half the totals.