Yes, They Are Coming In Front Door...

- At Illinois, this is the CS major in Engineering

![Graph showing %Freshman Applications Fa16 by ENGIN Major UIUC](chart.png)
But Can We Build *Other* Doors…?

“It’s technology married with liberal arts, married with the humanities, that yields the results that make our heart sing.”

Steve Jobs
They are *not*: Minor in CS/X. Dual degree.

They are: $\text{CS}(1/2) + \text{X}(1/2) = \text{Bachelors Degree in X}$

**Computer Science** + **Discipline** = **CS**

*Same CS core classes for all +X*
Illinois CS+X: Portfolio

Legacy degrees, decades old

CS+Math

CS+Statistics

CS+Anthropology

CS+Astronomy

CS+Chemistry

CS+Linguistics

Design started in 2010, approved 2013, admits 2014

Fresh admit 2016

Soph admit 2015

Junior admit 2014

Senior Next Year
Illinois CS+X: Traction

Anthropology

~11% Of students

Astronomy

~25% Of students

Linguistics

~28% Of students

Statistics

~36% Of students
... creates more demand
Illinois CS+X: Rising Popularity

- Dramatic surge of interest “to be next X”
- Likely pivoting toward more \{CS+DataSci\}+X

Next 3 X’s:
- CS+Advertising
- CS+Music
- CS+Philosophy

In discussion:
- CropSci
- Educat
- Economics
- English
- Art/Design
- Business
- GeoScience
Illinois CS+X: Why?

**Positive pressure**

The data deluge

**Negative pressure**

The Morbid Fascination With the Death of the Humanities

Why professors, librarians, and politicians are shunning liberal arts in the name of STEM

Illinois CS+X: Next...

Bifurcate CS core to better match non-STEM +X partners

One CS Fits All...

Astronomy
Chemistry
Economics
Mathematics
Etc...

Art/Design
Education
Music
Philosophy
Etc...

STEM +X

non-STEM +X

CS

CS

+ “X”

+ “X”

+ “X”
Illinois CS+X: Today’s Numbers

- CS+X approaching 30% of all CS
- CS+X approaching 50% of admitted Freshman ‘16 class
- CS+X new degrees now 28% female

Total CS Enrollment
- 71% CS
- 29% CS+X

Freshman 2016 Enrollment
- 55% CS
- 45% CS+X