# Reverse Transfer Students and Postsecondary Outcomes: A Potential Opportunity



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## Reverse Transferring vs. Reverse Articulation

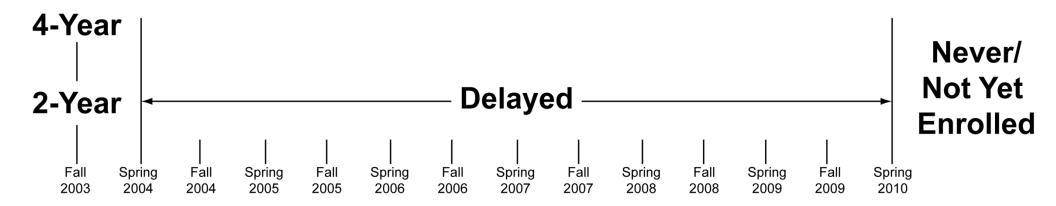
#### **Reverse Transferring**

- Pertains to students who start at a four-year college and later transfer to a community college.
- The term has been used in research for the past 20 years.
- The definition usually excludes concurrent enrollment and summer school enrollment.
- A transfer takes place.

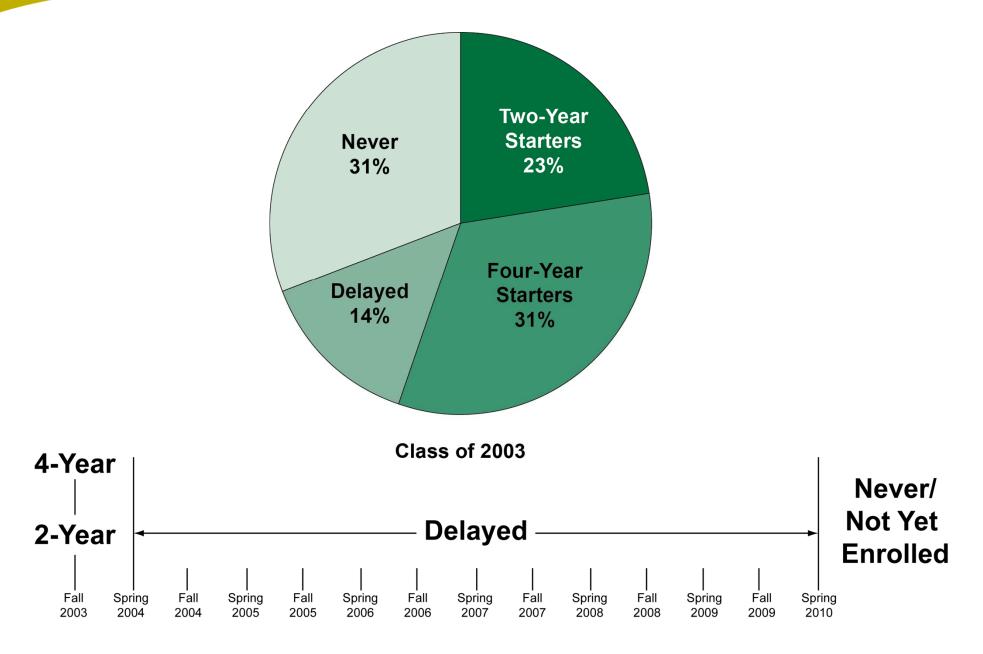
#### **Reverse Articulation**

- Pertains to students who start at a community college and later transfer to a four-year without earning an associate's degree (vertical).
- Involves the post-transfer articulation of credit from the four-year college to the original community college.
- The emphasis is on the ex post facto awarding of associate's degrees for vertical transfer students by using credits earned at the four-year to fulfill degree associate's degree requirements.

## **Basic Types of Postsecondary Enrollment**

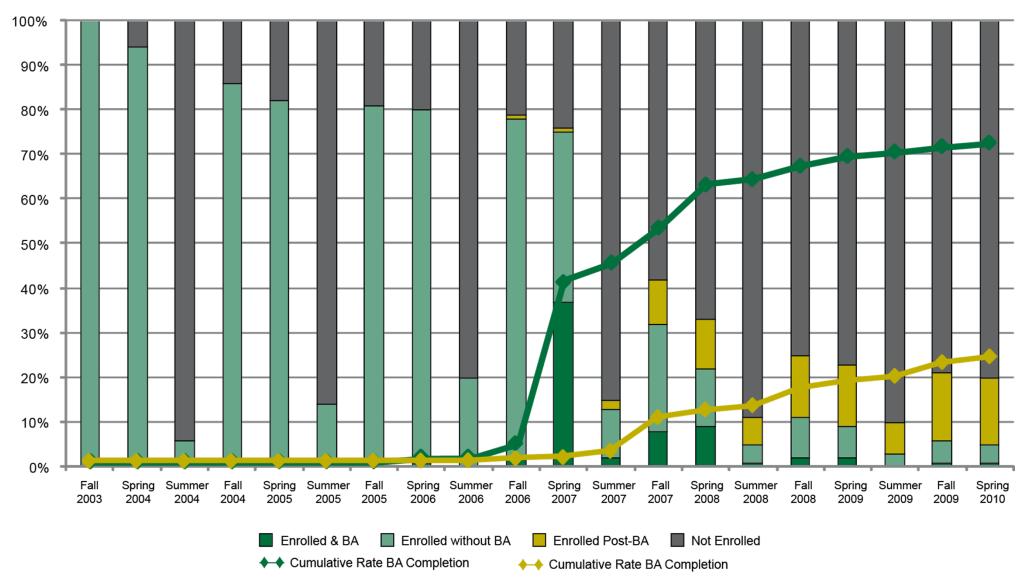


The study starts with the portion of the Illinois High School Class of 2003 (N=115,677) that enrolled at a four-year college during the fall semester of 2003.



In total, there were 37,165 four-year starters.

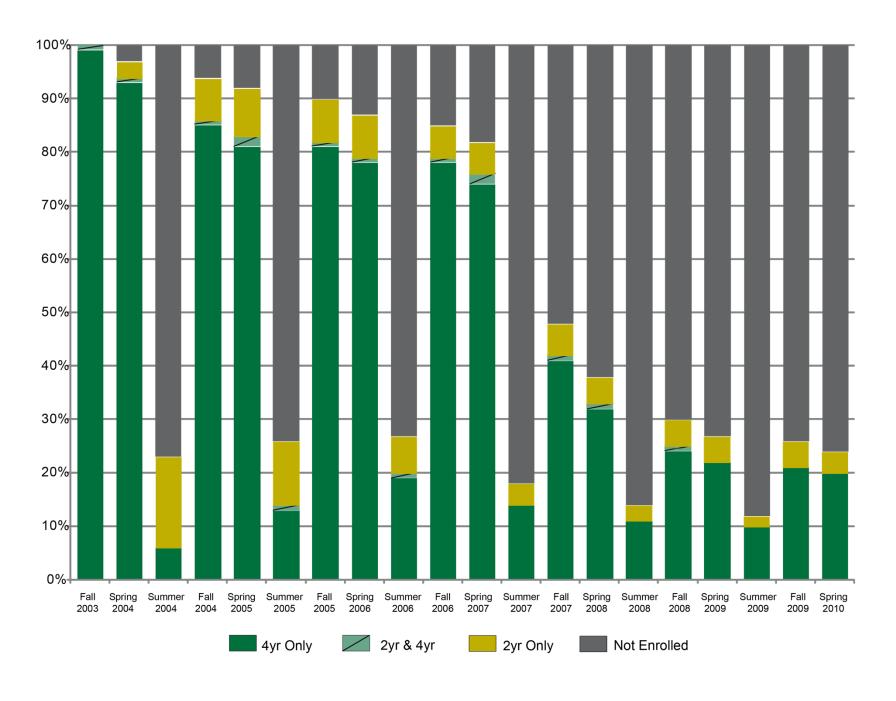
#### Persistence and Bachelor's Completion



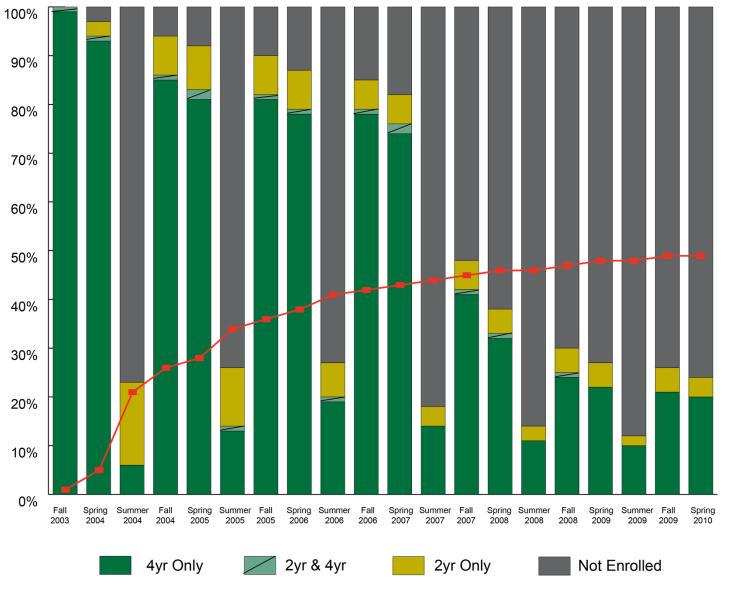
But can't a four-year entrant persist by sake of transferring to a community college?



## **Enrollment at 4yr and 2yr Institutions**



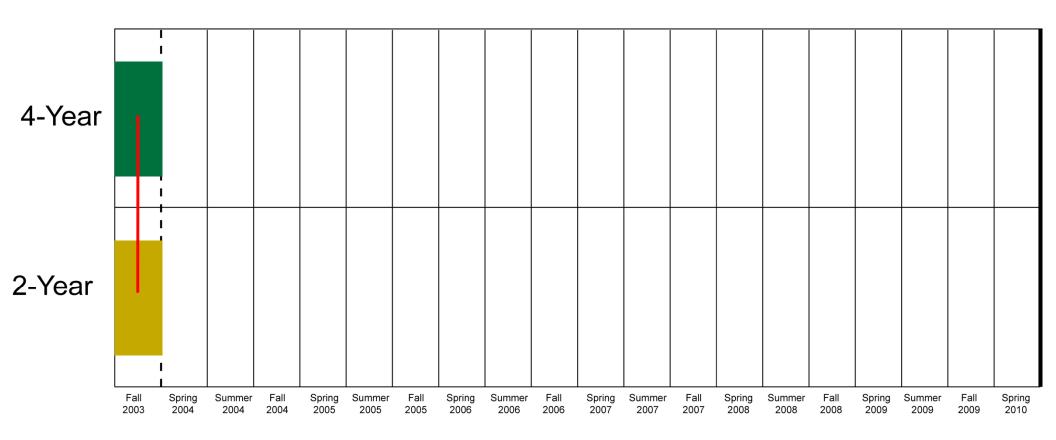
## **Enrollment Trends for Four-Year Starters**



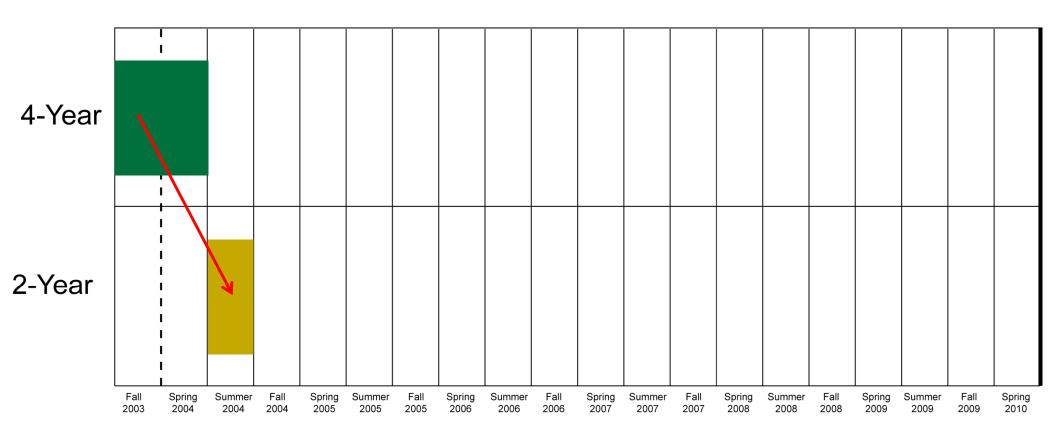
## There are different ways the four-year starters utilize the community college system.

- During summer session
- By sake of reverse transferring
- After earning a bachelor's degree
- Co-enrolled at a four-year institution
- To finish a graduation requirement at a four year institution(<1%)</li>

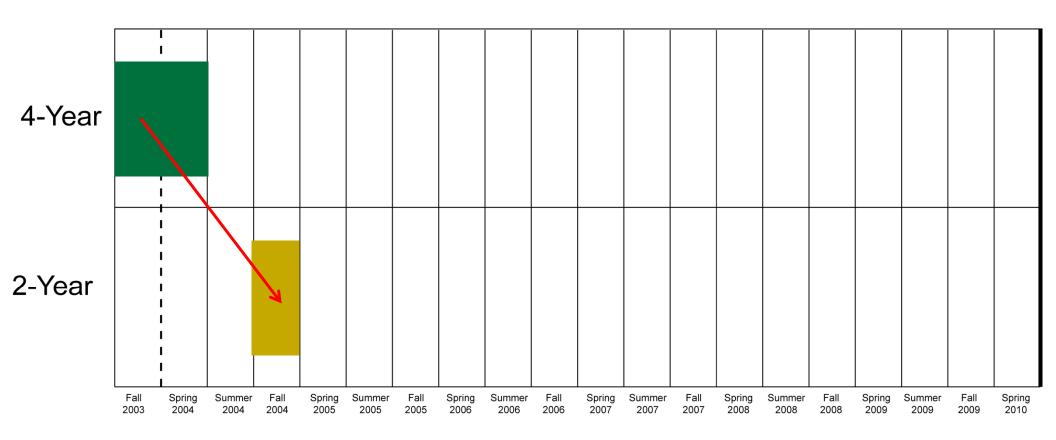
These are not mutually exclusive



Co-Enrolled



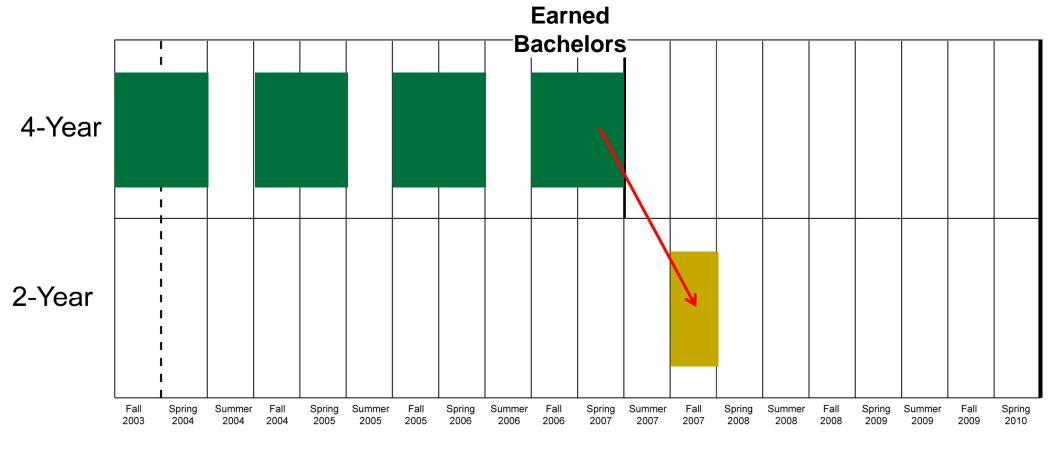
- Co-Enrolled
- Summer



Co-Enrolled

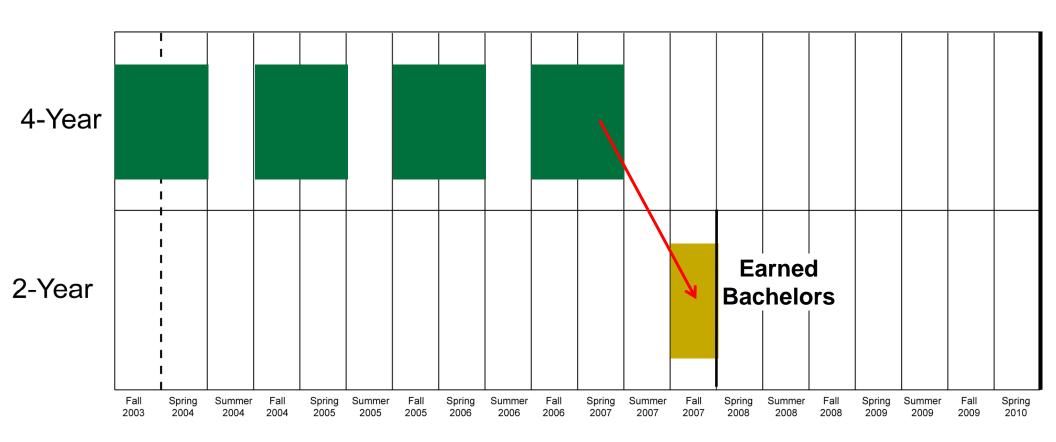
Reverse Transfer

Summer



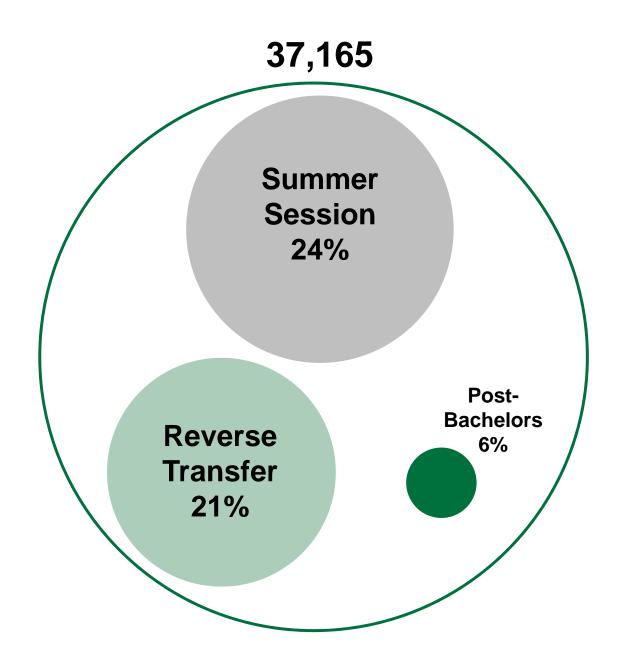
- Co-Enrolled
- Summer

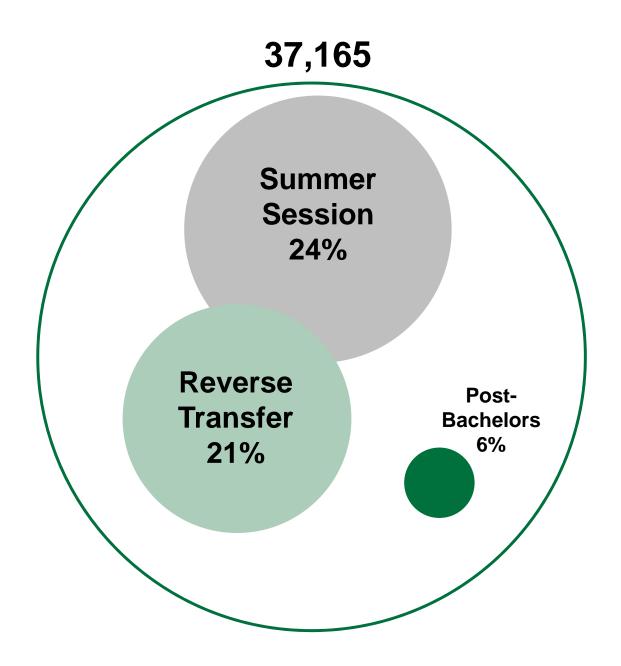
- Reverse Transfer
- Post-Bachelors

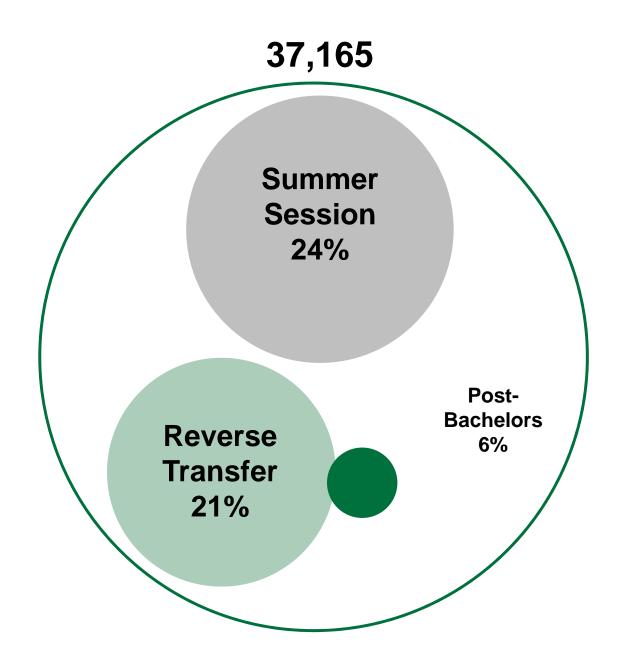


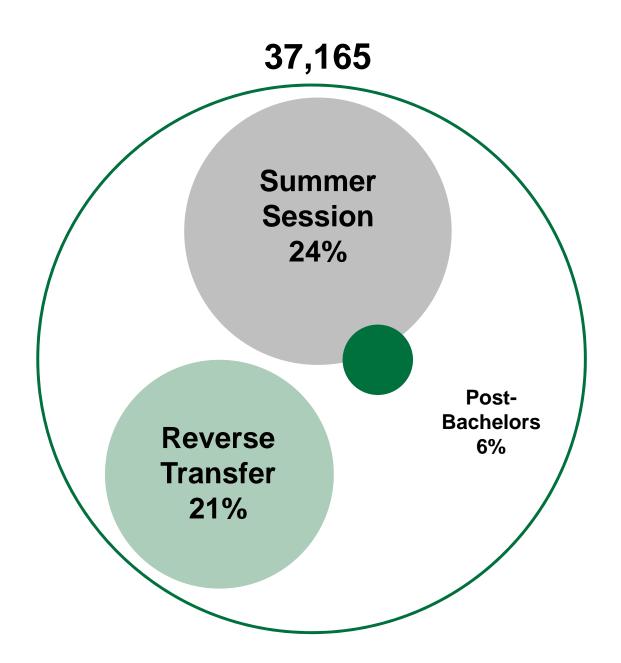
- Co-Enrolled
- Summer

- Reverse Transfer
- Post-Bachelors









## **Rationale for Study**

- Only half of reverse transfer students make it back to a four-year institution.
- One-fifth of reverse transfer students eventually earn a bachelor's degree and even fewer (around 15%)earn a certificate or degree during their stay at a community college.
- The low rate of degree completion associated with reverse transferring makes it the form of student mobility most deserving of attention (Goldrick-Rab and Pfeffer, 2009).

## Reverse Transferring Good, Bad, Ugly, or Benign?

- Reverse Transferring Diminishes Diplomas
- Reverse transfer students head in the wrong direction
- Reversing the course
- Community colleges, universities may have new relationship

## Who are Reverse Transfer Students?

- More similar to community college entrants and 4-yr college drop-outs than to other 4-yr entrants and bachelor's completers.
- Lower SES, lower parental education, more likely to be from the working class.
- Similar to other 4-yr starters in terms of the college saving behaviors of their parents and the discussions about college admissions with their parents.
- Academic difficulties during college
  - Traced back to high school preparation
  - In terms of academic preparedness they fall somewhere between other 4-yr entrants and community college entrants.

## **Sources of Data**

- ACT-Prairie State Achievement Examination and the Student Interest Profiler
- National Student Clearinghouse-covers 92% of all postsecondary enrollment
- Illinois High School Report Card-institutional characteristics of the high schools
- Barron's-selectivity of the four-year institutions

# Research Questions: Conditional Upon Initially Enrolling at a Four-Year Institution:

- 1. What factors are related to an accelerated time to reverse transfer?
- 2. Among reverse transfer students, which outcomes were attained at the community college (e.g., associate's completion)?
- 3. Among reverse transfer students, what factors are related to an accelerated time to return to a four-year institution?
- 4. Among those returning, what factors are related to an accelerated time to bachelor's completion?

## **Factors**

Category	Variables
Student Characteristics	Gender & Race
Student Academic Characteristics	HS class rank, HS GPA, highest expected degree, HS program type, core curriculum, ACT test scores, AP participation, stated need for help
Ability to Pay/ Financial Aid	Parental income, number of siblings, expecting to receive financial aid, expecting to work while enrolled
High School Characteristics	Region, Mean HS Composite ACT, Distance to 1st Four-Year, Distance to CC, Distance to Four-Year of Return
Four-Year Characteristics	Sector, selectivity, state

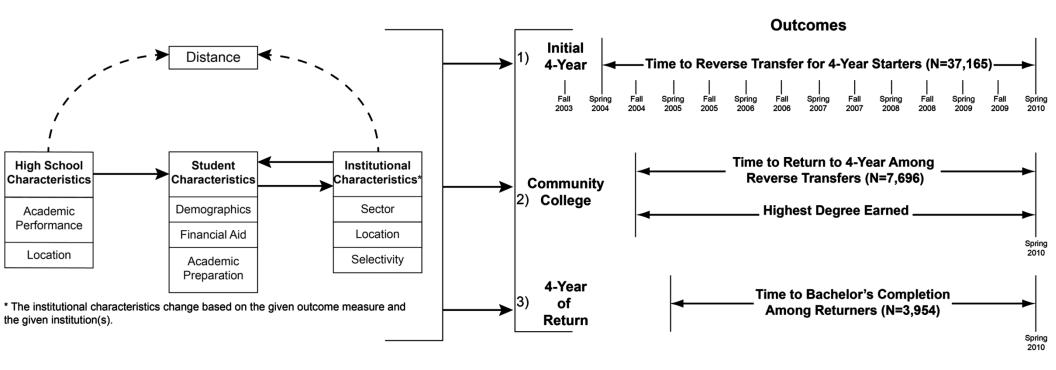
## **Outcomes**

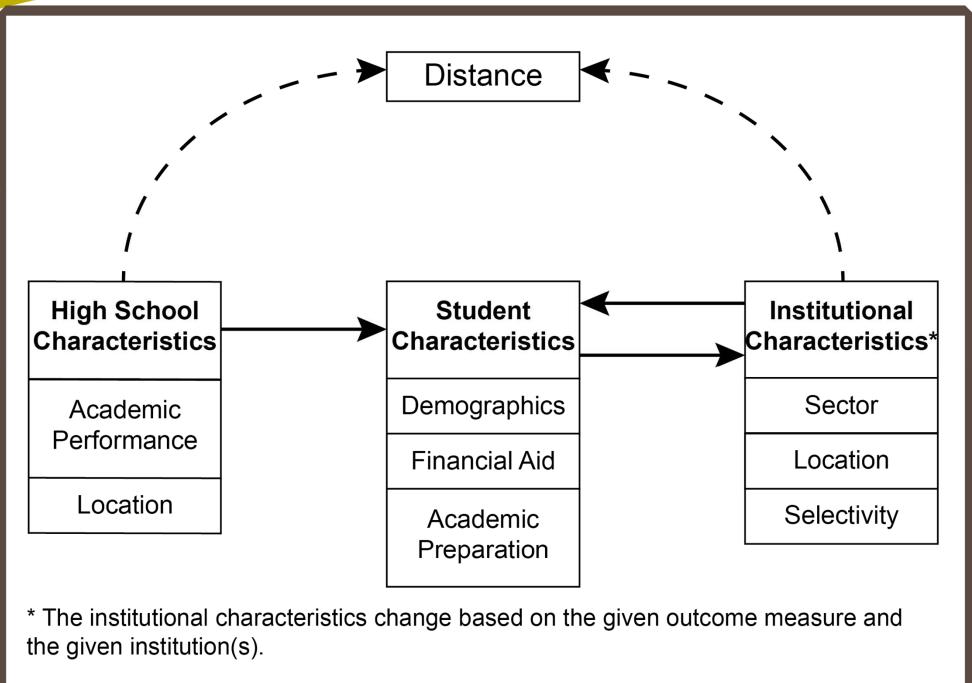
Outcome	Description
Reverse Transfer	Dichotomous indicator of whether a 4-yr starter ever enrolled at a community college excluding summer enrollment, concurrent enrollment, and post-bachelor's enrollment.
Highest CC Degree	Ordinal measure of a student's highest level of degree attainment while enrolled at a community college. Ranked as follows: a) associate's; b) certificate; and c) no degree.
4-yr Return	Dichotomous indicator of whether a reverse transfer student ever returned to a 4-yr institution after their community college enrollment.
Bachelor's Completion	Dichotomous indicator of whether a returner earned a bachelor's degree by the end of the spring semester of 2010.

## Survival Analysis (Cox Regression)

- Traditionally used in medical and epidemiology research.
- Used to explore the relationship between a set of explanatory variables and a time-based event of interest (number of semesters until reverse transfer).
- Provides an estimate of the treatment effect (odds ratios) on survival after adjusting for the explanatory variables.

## **Conceptual Diagram**





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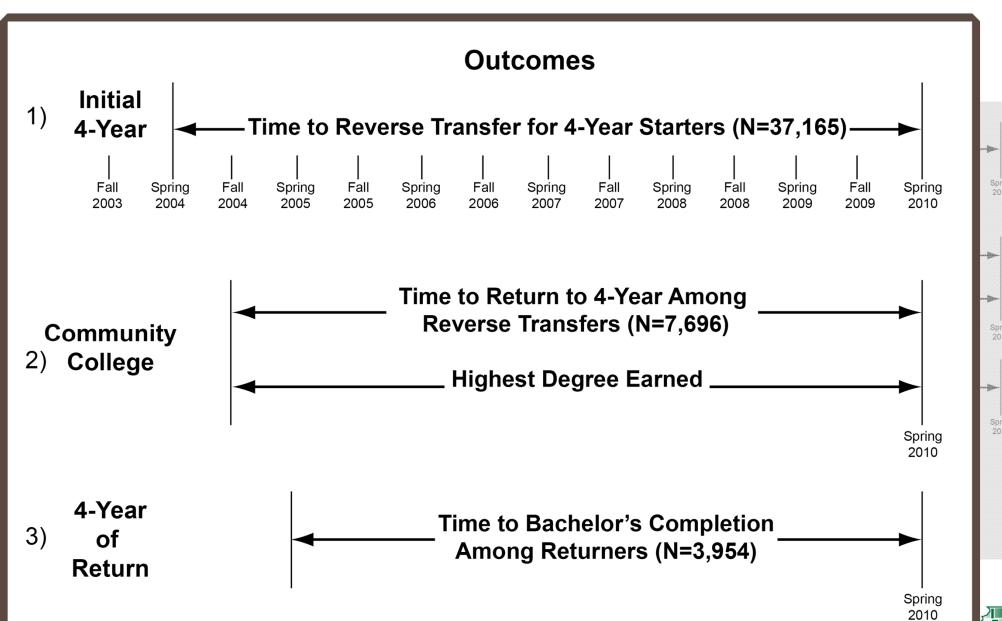
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## **Conceptual Diagram**



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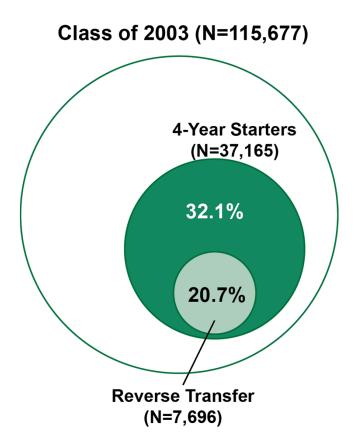
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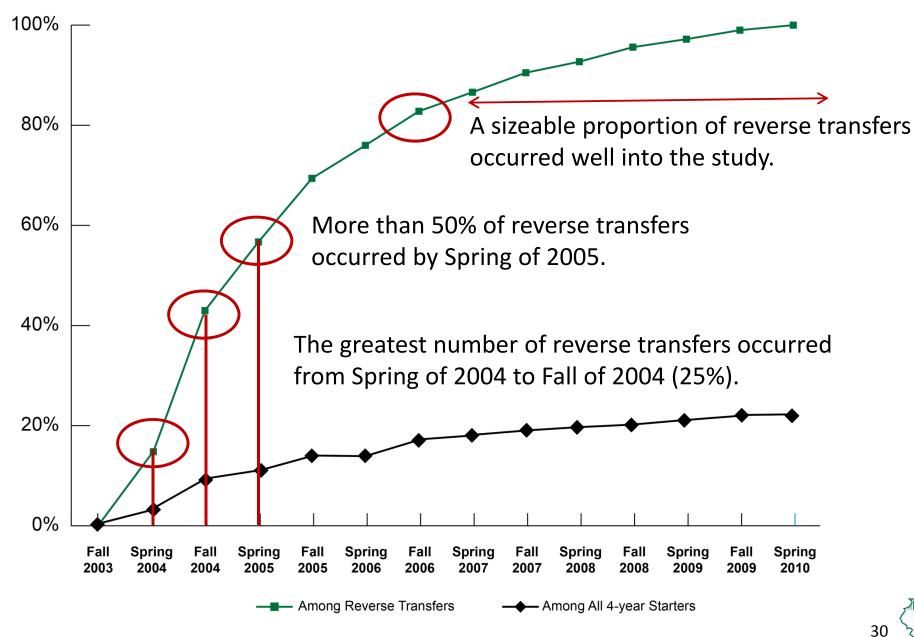


## **Reverse Transfers**

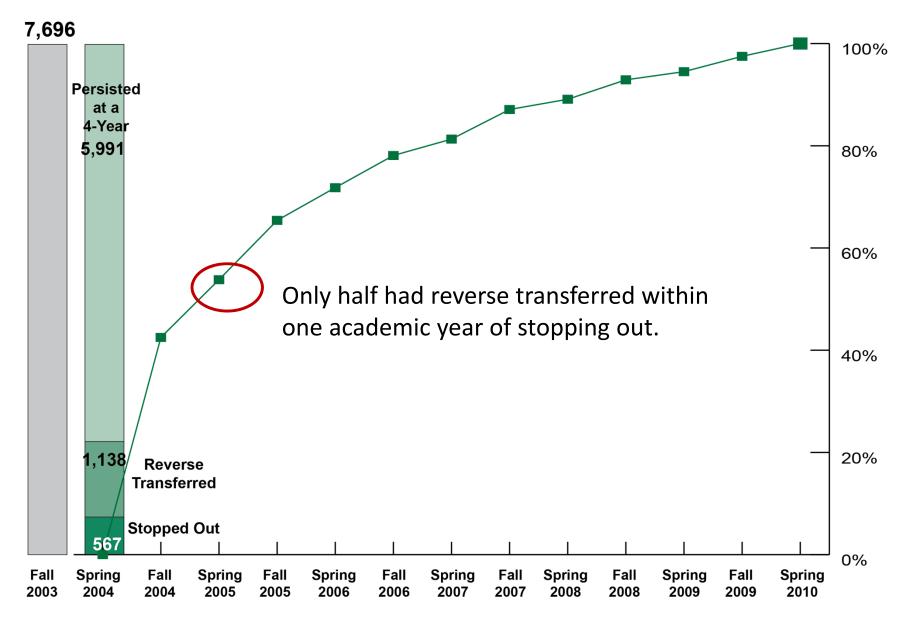
- More than one out of every five four-year college entrants met this distinction (21%)
  - Does not include summer enrollment
  - Does not include coenrollment
  - Does not include postbachelor's enrollment



## **Cumulative Rate of Reverse Transfer**



## Cumulative Number of Semesters to Reverse Transfer for Initial Stopouts (n=567)



Gender: Male to Female         .115         .001         1.122           Race         .044         .044         .093         .907           Hispanic to White        098         .093         .907           Hispanic to White        029         .681         .971           Parental Income         .000         .000           Mid-High to High         .151         .000         1.200           Low to High         .083         .133         1.087           Expected to Work         .211         .000         1.235           Expected to Receive Aid         .093         .049         1.097           Number of Siblings         .035         .005         1.035           Completed ACT Core        044         .184         .957           ACT English        021         .000         .980           ACT Math        022         .000         .979           ACT Reading        002         .685         .998           ACT Science         .024         .000         1.024           Class Rank         .000         .000         1.024           Second to Bottom        424         .002         .655           Second to Bo		В	Sig.	Odds Ratio
Black to White	Gender: Male to Female	.115	.001	1.122
Hispanic to White       .103       .122       1.109         Asian to White      029       .681       .971         Parental Income       .000       .000         Mid-High to High       .151       .000       1.200         Low to High       .083       .133       1.087         Expected to Work       .211       .000       1.235         Expected to Receive Aid       .093       .049       1.097         Number of Siblings       .035       .005       1.035         Completed ACT Core      044       .184       .957         ACT English      021       .000       .980         ACT Math      022       .000       .979         ACT Reading      002       .685       .998         ACT Science       .024       .000       1.024         Class Rank       .000       .000       1.024         Top to Bottom      424       .002       .655         Second to Bottom      194       .135       .824         Third to Bottom      194       .135       .824         Third to Bottom      98       .449       .907         HS GPA       .000       .692 <td>Race</td> <td></td> <td>.044</td> <td></td>	Race		.044	
Asian to White      029       .681       .971         Parental Income       .000       .000         Mid-High to High       .151       .000       1.163         Mid-Low to High       .083       .133       1.087         Expected to Work       .211       .000       1.235         Expected to Receive Aid       .093       .049       1.097         Number of Siblings       .035       .005       1.035         Completed ACT Core      044       .184       .957         ACT English      021       .000       .980         ACT Math      022       .000       .979         ACT Reading      002       .685       .998         ACT Science       .024       .000       1.024         Class Rank       .000       .000       1.024         Top to Bottom      424       .002       .655         Second to Bottom      194       .135       .824         Third to Bottom      098       .449       .907         HS GPA       .000       .000       .25-2.9 to ≤2.4      125       .022       .882         3.0-3.4 to ≤2.4      969       .000       .403       .49<	Black to White	098	.093	.907
Parental Income         .000           Mid-High to High         .151         .000         1.163           Mid-Low to High         .182         .000         1.200           Low to High         .083         .133         1.087           Expected to Work         .211         .000         1.235           Expected to Receive Aid         .093         .049         1.097           Number of Siblings         .035         .005         1.035           Completed ACT Core        044         .184         .957           ACT English        021         .000         .980           ACT Math        022         .000         .979           ACT Reading        002         .685         .998           ACT Science         .024         .000         1.024           Class Rank         .000         .000         1.024           Class Rank         .000        424         .002         .655           Second to Bottom        194         .135         .824           Third to Bottom        098         .449         .907           HS GPA         .000         .000         .692           ≥3.5 to ≤2.4        125	Hispanic to White	.103	.122	1.109
Mid-High to High       .151       .000       1.163         Mid-Low to High       .182       .000       1.200         Low to High       .083       .133       1.087         Expected to Work       .211       .000       1.235         Expected to Receive Aid       .093       .049       1.097         Number of Siblings       .035       .005       1.035         Completed ACT Core      044       .184       .957         ACT English      021       .000       .980         ACT Math      022       .000       .979         ACT Reading      002       .685       .998         ACT Science       .024       .000       1.024         Class Rank       .000       .000       1.024         Top to Bottom      424       .002       .655         Second to Bottom      194       .135       .824         Third to Bottom      194       .135       .824         Third to Bottom      125       .022       .882         3.0-3.4 to ≤2.4      369       .000       .692         ≥3.5 to ≤2.4      909       .000       .403         AP English       .060 </td <td>Asian to White</td> <td>029</td> <td>.681</td> <td>.971</td>	Asian to White	029	.681	.971
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Expected to Work       .211       .000       1.235         Expected to Receive Aid       .093       .049       1.097         Number of Siblings       .035       .005       1.035         Completed ACT Core      044       .184       .957         ACT English      021       .000       .980         ACT Math      022       .000       .979         ACT Reading      002       .685       .998         ACT Science       .024       .000       1.024         Class Rank       .000       .000       1.024         Top to Bottom      424       .002       .655         Second to Bottom      194       .135       .824         Third to Bottom      098       .449       .907         HS GPA       .000       .000       .000       .692         ≥3.5 to ≤2.4      125       .022       .882         3.0-3.4 to ≤2.4      369       .000       .692         ≥3.5 to ≤2.4      909       .000       .403         AP English       .060       .140       1.062         AP Social Studies      090       .030       .914         AP Foreign Language	Mid-Low to High	.182	.000	1.200
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Third to Bottom      098       .449       .907         HS GPA       .000       .000       .900       .900       .900       .902       .882       .882       .903       .900       .692       .900       .692       .900       .900       .403         AP English       .060       .140       1.062         AP Social Studies      090       .030       .914         AP Math      012       .774       .988         AP Foreign Language      090       .026       .914	Top to Bottom	424	.002	.655
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AP English       .060       .140       1.062         AP Social Studies      090       .030       .914         AP Math      012       .774       .988         AP Foreign Language      090       .026       .914	3.0-3.4 to ≤2.4	369	.000	.692
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AP Math        012         .774         .988           AP Foreign Language        090         .026         .914	AP English	.060	.140	1.062
AP Foreign Language090 .026 .914	AP Social Studies	090	.030	.914
	AP Math	012	.774	.988
<b>AP Science</b> .086 .037 1.090	AP Foreign Language	090	.026	.914
	AP Science	.086	.037	1.090

	В	Sig.	Odds Ratio
HS Program Type		.391	
CTE to College Prep	.025	.623	1.026
General to College Prep	.052	.172	1.053
Highest Expected Degree		.000	
Less than Bachelor's to Bachelor's +	241	.002	.786
Bachelor's to Bachelor's +	110	.001	.896
Need Help Making Educational Plans	167	.000	.846
Need Writing Help	052	.202	.950
Need Help Improving Studying Skills	.164	.000	1.178
Need Help with Comprehension	125	.001	.882
Need Help with Mathematics	105	.005	.900
Region		.004	
NE to Chicago	.204	.001	1.226
NW to Chicago	.192	.022	1.212
WC to Chicago	.180	.036	1.197
EC to Chicago	.209	.016	1.232
SW to Chicago	.111	.165	1.118
SE to Chicago	.434	.000	1.543
High School Mean ACT	077	.000	.926
Distance from HS to Initial Four-Yr		.014	
>30 - ≤100 to ≤30	045	.319	.956
>100 – ≤175 to ≤30	135	.005	.874
>175 to ≤30	142	.009	.868
Public to Private	.170	.000	1.185
In-state to Out-of-State	.126	.005	1.135
Highly/Most Competitive to Other	357	.000	.700

B Sig. Odds Ratio		В	Sig. Odds Ratio
	В	Sig.	Odds Ratio
Gender: Male to Female	.115	.001	1.122

Mig' High	.182	.000	1.200
Aligh	.083	.133	1.087
d to Work	.211	.000	1.235
ted to Receive Aid	.093	.049	1.097
mber of Siblings	.035	.005	1.035
Completed ACT Core	044	.184	.957
ACT English	021	.000	.980
ACT Math	022	.000	.979
ACT Reading	002	.685	.998
ACT Science	.024	.000	1.024
Class Rank		.000	
Top to Bottom	424	.002	.655
Second to Bottom	194	.135	.824
Third to Bottom	098	.449	.907
HS GPA		.000	
2.5-2.9 to ≤2.4	125	.022	.882
3.0-3.4 to ≤2.4	369	.000	.692
≥3.5 to ≤2.4	909	.000	.403
AP English	.060	.140	1.062
AP Social Studies	090	.030	.914
AP Math	012	.774	.988
AP Foreign Language	090	.026	.914
AP Science	.086	.037	1.090

Need Writing Help	052	.202	.950
Need Help Improving Studying Skills	.164	.000	1.178
Need Help with Comprehension	125	.001	.882
Need Help with Mathematics	105	.005	.900
Region		.004	
NE to Chicago	.204	.001	1.226
NW to Chicago	.192	.022	1.212
WC to Chicago	.180	.036	1.197
EC to Chicago	.209	.016	1.232
SW to Chicago	.111	.165	1.118
SE to Chicago	.434	.000	1.543
High School Mean ACT	077	.000	.926
Distance from HS to Initial Four-Yr		.014	
>30 - ≤100 to ≤30	045	.319	.956
>100 - ≤175 to ≤30	135	.005	.874
>175 to ≤30	142	.009	.868
Public to Private	.170	.000	1.185
In-state to Out-of-State	.126	.005	1.135
Highly/Most Competitive to Other	357	.000	.700

	В	Sig.	Odds Ratio		В	Sig.	Odds Ratio
Gender: Male to Female	.115	.001	1.122	HS Program Type		.391	
Race		.044		CTE to College Prep	.025	.623	1.026

	В	Sig.	Odds Ratio
Parental Income		.000	
Mid-High to High	.151	.000	1.163
Mid-Low to High	.182	.000	1.200
Low to High	.083	.133	1.087
Expected to Work	.211	.000	1.235
Expected to Receive Aid	.093	.049	1.097
Number of Siblings	.035	.005	1.035

HS G;		.000		>100-5175 to 530	135	.005	.874
to ≤2.4	125	.022	.882	>175 to ≤30	142	.009	.868
.4 to ≤2.4	369	.000	.692	Public to Private	.170	.000	1.185
.5 to ≤2.4	909	.000	.403	In-state to Out-of-State	.126	.005	1.135
English	.060	.140	1.062	Highly/Most Competitive to Other	357	.000	.700
AP Social Studies	090	.030	.914				
AP Math	012	.774	.988				
AD Foreign Language	000	000	044				

.037

.086

AP Science

1.090

	В	Sig.	Odds Ratio
Gender: Male to Female	.115	.001	1.122
Race		.044	
Black to White	098	.093	.907

	В	Sig.	Odds Ratio
HS Program Type		.391	
CTE to College Prep	.025	.623	1.026
General to College Prep	.052	.172	1.053

	В	Sig.	Odds Ratio
ACT English	021	.000	.980
ACT Math	022	.000	.979
ACT Reading	002	.685	.998
ACT Science	.024	.000	1.024

ACT e	.024	.000	1.024
ank		.000	
to Bottom	424	.002	.655
second to Bottom	194	.135	.824
Third to Bottom	098	.449	.907
HS GPA		.000	
2.5-2.9 to ≤2.4	125	.022	.882
3.0-3.4 to ≤2.4	369	.000	.692
≥3.5 to ≤2.4	909	.000	.403
AP English	.060	.140	1.062
AP Social Studies	090	.030	.914
AP Math	012	.774	.988
AP Foreign Language	090	.026	.914
AP Science	.086	.037	1.090

SW to Chicago	.111	.165	1.118
SE to Chicago	.434	.000	1.543
High School Mean ACT	077	.000	.926
Distance from HS to Initial Four-Yr		.014	
>30 - ≤100 to ≤30	045	.319	.956
>100 - ≤175 to ≤30	135	.005	.874
>175 to ≤30	142	.009	.868
Public to Private	.170	.000	1.185
In-state to Out-of-State	.126	.005	1.135
Highly/Most Competitive to Other	357	.000	.700

	В	Sig.	Odds Ratio
Gender: Male to Female	.115	.001	1.122
Race		.044	
Black to White	098	.093	.907
Hispanic to White	.103	.122	1.109
Asian to White	029	.681	.971
en. 4 t t			******************

	В	Sig.	Odds Ratio
HS Program Type		.391	
CTE to College Prep	.025	.623	1.026
General to College Prep	.052	.172	1.053
Highest Expected Degree		.000	
Less than Bachelor's to Bachelor's +	241	.002	.786
Dashalaria ta Dashalaria 1	440	004	902

	В	Sig.	Odds Ratio
HS GPA		.000	
2.5-2.9 to ≤2.4	125	.022	.882
3.0-3.4 to ≤2.4	369	.000	.692
≥3.5 to ≤2.4	909	.000	.403

Tor	424	.002	.655
d to Bottom	194	.135	.824
to Bottom	098	.449	.907
PA		.000	
2.5-2.9 to ≤2.4	125	.022	.882
3.0-3.4 to ≤2.4	369	.000	.692
≥3.5 to ≤2.4	909	.000	.403
AP English	.060	.140	1.062
AP Social Studies	090	.030	.914
AP Math	012	.774	.988
AP Foreign Language	090	.026	.914
AP Science	.086	.037	1.090

High School Mean ACT	077	.000	.926
Distance from HS to Initial Four-Yr		.014	
>30 - ≤100 to ≤30	045	.319	.956
>100 - ≤175 to ≤30	135	.005	.874
>175 to ≤30	142	.009	.868
Public to Private	.170	.000	1.185
In-state to Out-of-State	.126	.005	1.135
Highly/Most Competitive to Other	357	.000	.700

### Odds of an Accelerated Time to Reverse Transfer (cont.)

	8	Sig.	Odds Ratio		В	Sig.	Odds Ratio
Gender: Male to Female	.115	.001	1.122	HS Program Type		.391	
Race	***************************************	044	***************************************	CTE to College Prep	.025	.623	1.026

	В	Sig.	Odds Ratio
Need Help Making Educational Plans	167	.000	.846

Expec Receive Aid	.093	.049	1.097
N Siblings	.035	.005	1.035
ted ACT Core	044	.184	.957
∠nglish	021	.000	.980
T Math	022	.000	.979
ACT Reading	002	.685	.998
ACT Science	.024	.000	1.024
Class Rank		.000	
Top to Bottom	424	.002	.655
Second to Bottom	194	.135	.824
Third to Bottom	098	.449	.907
HS GPA		.000	
2.5-2.9 to ≤2.4	125	.022	.882
3.0-3.4 to ≤2.4	369	.000	.692
≥3.5 to ≤2.4	909	.000	.403
AP English	.060	.140	1.062
AP Social Studies	090	.030	.914
AP Math	012	.774	.988
AP Foreign Language	090	.026	.914
AP Science	.086	.037	1.090

Need Help with Mathematics	105	.005	.900
Region		.004	
NE to Chicago	.204	.001	1.226
NW to Chicago	.192	.022	1.212
WC to Chicago	.180	.036	1.197
EC to Chicago	.209	.016	1.232
SW to Chicago	.111	.165	1.118
SE to Chicago	.434	.000	1.543
High School Mean ACT	077	.000	.926
Distance from HS to Initial Four-Yr		.014	
>30 - ≤100 to ≤30	045	.319	.956
>100 – ≤175 to ≤30	135	.005	.874
>175 to ≤30	142	.009	.868
Public to Private	.170	.000	1.185
In-state to Out-of-State	.126	.005	1.135
Highly/Most Competitive to Other	357	.000	.700

### Odds of an Accelerated Time to Reverse Transfer (cont.)

	В	Sig.	Odds Ratio
Gender: Male to Female	.115	.001	1.122
Race		.044	***************************************
Black to White	098	.093	.907
Hispanic to White	.103	.122	1.109

	В	Sig.	Odds Ratio
HS Program Type		.391	
CTE to College Prep	.025	.623	1.026
General to College Prep	.052	.172	1.053
Highest Expected Degree		.000	

	В	Sig.	Odds Ratio
High School Mean ACT	077	.000	.926

ACT	021	.000	.980
	022	.000	.979
ading	002	.685	.998
science	.024	.000	1.024
ass Rank		.000	
Top to Bottom	424	.002	.655
Second to Bottom	194	.135	.824
Third to Bottom	098	.449	.907
HS GPA		.000	
2.5-2.9 to ≤2.4	125	.022	.882
3.0-3.4 to ≤2.4	369	.000	.692
≥3.5 to ≤2.4	909	.000	.403
AP English	.060	.140	1.062
AP Social Studies	090	.030	.914
AP Math	012	.774	.988
AP Foreign Language	090	.026	.914
AP Science	.086	.037	1.090

NW to Chicago	.192	.022	1.212
WC to Chicago	.180	.036	1.197
EC to Chicago	.209	.016	1.232
SW to Chicago	.111	.165	1.118
SE to Chicago	.434	.000	1.543
High School Mean ACT	077	.000	.926
Distance from HS to Initial Four-Yr		.014	
>30 - ≤100 to ≤30	045	.319	.956
>100 - ≤175 to ≤30	135	.005	.874
>175 to ≤30	142	.009	.868
Public to Private	.170	.000	1.185
In-state to Out-of-State	.126	.005	1.135
Highly/Most Competitive to Other	357	.000	.700

### Odds of an Accelerated Time to Reverse Transfer (cont.)

	В	Sig.	Odds Ratio
Gender: Male to Female	.115	.001	1.122
Race		.044	
Black to White	098	.093	.907
Hispanic to White	.103	.122	1.109
Asian to White	029	.681	.971
Parental Income		.000	
RAIN LIINK AN LIINK	454	nnn	4 400

	В	Sig.	Odds Ratio
HS Program Type		.391	
CTE to College Prep	.025	.623	1.026
General to College Prep	.052	.172	1.053
Highest Expected Degree		.000	
Less than Bachelor's to Bachelor's +	241	.002	.786
Bachelor's to Bachelor's +	110	.001	.896
Need Heln Making Educational Plans	_167	nnn	848

	В	Sig.	Odds Ratio
Public to Private	.170	.000	1.185
In-state to Out-of-State	.126	.005	1.135
Highly/Most Competitive to Other	357	.000	.700

Tor	424	.002	.655
a to Bottom	194	.135	.824
to Bottom	098	.449	.907
PA		.000	
2.5-2.9 to ≤2.4	125	.022	.882
3.0-3.4 to ≤2.4	369	.000	.692
≥3.5 to ≤2.4	909	.000	.403
AP English	.060	.140	1.062
AP Social Studies	090	.030	.914
AP Math	012	.774	.988
AP Foreign Language	090	.026	.914
AP Science	.086	.037	1.090

High School Mean ACT	077	.000	.926
Distance from HS to Initial Four-Yr		.014	
>30 - ≤100 to ≤30	045	.319	.956
>100 - ≤175 to ≤30	135	.005	.874
>175 to ≤30	142	.009	.868
Public to Private	.170	.000	1.185
In-state to Out-of-State	.126	.005	1.135
Highly/Most Competitive to Other	357	.000	.700

### Distance in Miles Between High School and Initial Four-Year Institution



Reverse transfer students tend to initially enroll closer to home.

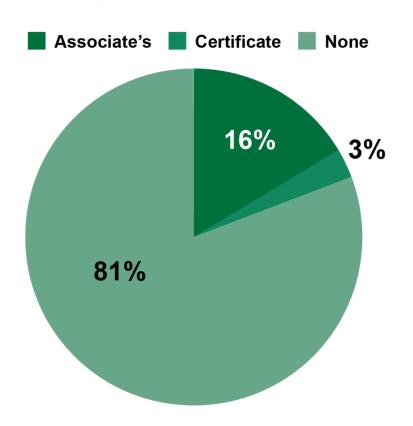
## Distance between HS and Initial 4yr by Distance between HS and CC

			High	School to C	ommunity Colle	ege	
			≤30	>30 to ≤100	>100 to ≤175	>175	Total
High School to Initial Four-Year	≤30	Row %	91.2%	4.5%	1.0%	3.4%	100.0%
	>30 to ≤100	Row %	73.0%	22.0%	1.5%	3.5%	100.0%
	>100 to ≤175	Row %	77.3%	4.0%	15.3%	3.5%	100.0%
	>175	Row %	75.0%	3.1%	2.4%	19.5%	100.0%
Total		Row %	80.0%	8.2%	4.6%	7.2%	100.0%

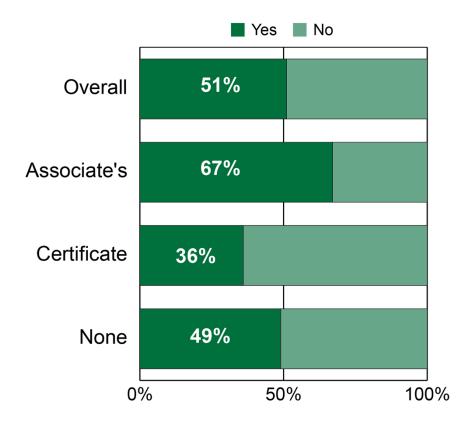
- Most reverse transfer students enrolled at a community college within 30 miles of home.
- Around 20% are opting to utilize the community college in the same area as their initial four-year college.

# Outcomes for Reverse Transfers at Community Colleges

#### **Highest Two Year Degree**



#### **Returned to a Four-Year Institution**



### Community College Outcomes among Reverse Transfer Students

		Highest	: Degree		
Variable	- Categories	Associate's Degree Completion	Certificate Completion	No 2-Yr Degree	Rate of 4-Yr Return
Od	Male	14.7%	2.1%	83.2%	51.8%
Gender	Female	18.1%	3.6%	78.4%	51.0%
	African-American	10.4%	3.4%	86.2%	45.6%
D	Hispanic	13.2%	2.5%	84.3%	41.1%
Race	Asian	~	~	~	58.3%
	White	19.4%	3.1%	77.5%	53.3%
	High	15.7%	2.0%	82.2%	59.0%
Parental Income	Mid-High	19.5%	3.3%	77.3%	52.5%
Parental Income	Mid-Low	16.7%	3.2%	80.1%	48.4%
	Low	12.6%	3.3%	84.1%	42.5%
Expecting to	Yes	16.3%	2.9%	80.7%	49.4%
Work while Enrolled	No	17.0%	2.9%	80.0%	56.8%
Expecting to	Yes	16.4%	3.0%	80.6%	50.2%
Receive Financial Aid	No	17.4%	2.5%	80.1%	56.6%
Completed	Yes	17.5%	2.6%	79.9%	54.7%
the ACT Core Courses in HS	No	15.3%	3.1%	81.6%	47.5%
	Top Quarter	20.3%	2.9%	76.8%	58.1%
High School	Second Quarter	16.2%	3.3%	80.5%	49.7%
Class Rank	Third Quarter	11.9%	2.5%	85.6%	45.2%
	Bottom Quarter	~	~	~	39.8%
	3.5-4.0	21.8%	2.9%	75.3%	61.1%
Uigh Sahaal CDA	3.0-3.4	17.7%	3.0%	79.3%	52.9%
High School GPA	2.5-2.9	13.7%	3.1%	83.2%	46.9%
	≤2.4	11.0%	2.8%	86.2%	41.1%
AD English	Yes	17.0%	3.0%	80.1%	55.0%
AP English	No	16.4%	3.0%	80.6%	49.2%
AP Social	Yes	16.4%	2.9%	80.8%	58.0%
Studies	No	16.9%	3.1%	80.1%	48.6%
AP Mathematics	Yes	18.6%	2.6%	78.8%	54.7%
AP Mathematics	No	15.6%	3.2%	81.2%	49.7%
AP Foreign	Yes	17.8%	3.1%	79.0%	57.3%
Language	No	16.4%	2.9%	80.7%	49.8%
AD Calamaa	Yes	17.7%	3.2%	79.0%	54.7%
AP Science	No	16.2%	2.9%	81.0%	49.9%

		Highest	Degree		
Variable	Categories	Associate's Degree Completion	Certificate Completion	- No 2-Yr Degree	Rate of 4-Yr Return
	College Prep	17.9%	3.1%	79.0%	54.7%
High School Program Type	CTE	14.4%	2.7%	82.8%	47.2%
Frogram Type	General	15.0%	2.7%	82.2%	46.2%
	Bachelor's +	15.9%	3.1%	81.0%	53.5%
Highest Expected	Bachelor's	17.9%	2.7%	79.3%	49.2%
Degree	Less than Bachelor's	~	~	~	41.0%
Diamaina Hala	Yes	17.2%	2.9%	79.9%	52.6%
Planning Help	No	16.0%	3.0%	81.0%	50.3%
Muitin a Hala	Yes	17.2%	2.9%	79.9%	48.3%
Writing Help	No	16.3%	2.9%	80.8%	52.1%
Decelius II-lu	Yes	16.7%	3.2%	80.1%	49.6%
Reading Help	No	16.4%	2.8%	80.8%	51.9%
Otrodolo o Holo	Yes	16.5%	2.9%	80.6%	48.9%
Studying Help	No	16.5%	2.9%	80.6%	53.4%
Math Help	Yes	15.8%	3.3%	81.0%	47.4%
мати петр	No	16.9%	2.7%	80.4%	53.7%
	Chicago	10.5%	2.7%	86.8%	39.7%
	Northeast	14.7%	2.6%	82.6%	55.6%
	Northwest	~	~	~	50.3%
Region	West Central	22.2%	4.2%	73.7%	47.7%
	East Central	~	~	~	53.0%
	Southwest	21.8%	5.0%	73.2%	48.0%
	Southeast	~	~	~	48.8%
Distance	≤30	15.4%	3.2%	81.4%	44.9%
Between High	>30 but ≤100	21.4%	3.3%	75.4%	49.8%
School and First	>100 but ≤175	17.5%	2.6%	80.0%	59.0%
College	>175	11.8%	2.2%	86.0%	54.2%
Sector of First	Public	17.2%	2.9%	77.9%	52.5%
College	NFF Private	14.8%	2.6%	82.5%	49.0%
State of First	In-State	17.0%	2.9%	80.1%	49.5%
College	Out-of-State	14.5%	2.6%	82.9%	57.5%
Calaativity of	Most/Highly	13.2%	2.3%	84.5%	67.4%
Selectivity of First College	All other Institutions	16.7%	3.0%	80.3%	50.0%

### Community College Outcomes among Reverse Transfer Students

					Highes	t Degree						
Va	ariable	Cate	gories	D	ociate's egree npletion	Certific Comple		No 2-Yr Degr	ee	Rate of 4-Yr Return		
		N	/lale		14.7%	2	2.1%	83.2	2%	51.	8%	
Gende	r		malo	18.1%		3	3.6%	78.4	0/	51	00/	
		l Le	Female		10.170	3.0 %		10.4	70	51.0	U 70	
		African-	-American		10.4%			86.2%		45.	6%	
Dans		His	panic		13.2%			84.3	%	41.1%		
Race		A	sian	~		~		~		58.3%		
		White			19.4%	3	3.1%	77.5	%	53.	3%	
					3.55							
gh School	ond Quarter	16.2%	3.3%	76.8% 80.5%	49.7%		Northeast Northwest	14.7%	2.6%	82.6%	55.6% 50.3%	
ss Ray	Third Quarter	11.9%	2.5%	85.6%	45.2%	Region	West Central	22.2%	4.2%	73.7%	47.7%	
	Bottom Quarter	~	~	~	39.8%	rtogion	East Central	~	· ·	~	53.0%	
	3.5-4.0	21.8%	2.9%	75.3%	61.1%		Southwest	21.8%	5.0%	73.2%	48.0%	
<b>1</b>	3.0-3.4	17.7%	3.0%	79.3%	52.9%		Southeast	~	~	~	48.8%	
5PA	2.5-2.9	13.7%	3.1%	83.2%	46.9%		≤30	15.4%	3.2%	81.4%	44.9%	
	≤2.4	11.0%	2.8%	86.2%	41.1%	Distance Between High	>30 but ≤100	21.4%	3.3%	75.4%	49.8%	
ALC: U	Yes	17.0%	3.0%	80.1%	55.0%	School and First	>100 but ≤175	17.5%	2.6%	80.0%	59.0%	
nglish	No	16.4%	3.0%	80.6%	49.2%	College	>175	11.8%	2.2%	86.0%	54.2%	
Social	Yes	16.4%	2.9%	80.8%	58.0%	Sector of First	Public	17.2%	2.9%	77.9%	52.5%	
dies	No	16.9%	3.1%	80.1%	48.6%	College	NFF Private	14.8%	2.6%	82.5%	49.0%	
Mathamatica	Yes	18.6%	2.6%	78.8%	54.7%	State of First	In-State	17.0%	2.9%	80.1%	49.5%	
Mathematics	No	15.6%	3.2%	81.2%	49.7%	College	Out-of-State	14.5%	2.6%	82.9%	57.5%	
Foreign	Yes	17.8%	3.1%	79.0%	57.3%		Most/Highly	13.2%	2.3%	84.5%	67.4%	
nguage	No	16.4%	2.9%	80.7%	49.8%	Selectivity of First College	All other				50.000	
Science	Yes	17.7%	3.2%	79.0%	54.7%	rusi wineye	Institutions	16.7%	3.0%	80.3%	50.0%	
CONTROL STATE	No	16.2%	2.9%	81.0%	49.9%							

## **Community College Outcomes among Reverse Transfer Students**

	<del>-</del> ,	Highest De Associate's	gree				-	Highest De Associate's	gree		
					Highes	st Degree					
v	ariable	Cate	egories	Associate's Degree Certificate Completion Completion		No 2-Yr Degr	ee	Rate of 4-Yr Return			
		ŀ	High		15.7%	2	2.0%	82.2	2%	59.	0%
Darent	rental Income		d-High	19.5% 3.3% 77.3%		77.3%		52.5%			
raicii	ai ilicollic	Mid	d-Low		16.7%	3	3.2%	80.1	%	48.	4%
		ι	_ow		12.6%	3	3.3%	84.1	%	42.	5%
gh School ass Ray	ond Quarter Third Quarter	16.2% 11.9%	3.3% 2.5%	80.5% 85.6%	49.7% 45.2%	Region	Northwest West Central	22.2%	4.2%	73.7%	50.3% 47.7%
	3.5-4.0 3.0-3.4	21.8% 17.7%	2.9%	75.3% 79.3%	39.8% 61.1% 52.9%		East Central Southwest Southeast	21.8%	5.0%	73.2%	53.0% 48.0% 48.8%
3PA	2.5-2.9 ≤2.4	13.7% 11.0%	3.1% 2.8%	83.2% 86.2%	46.9% 41.1%	Distance Between High	≤30 >30 but ≤100	15.4% 21.4%	3.2% 3.3%	81.4% 75.4%	44.9% 49.8%
nglish	Yes No	17.0% 16.4%	3.0% 3.0%	80.1% 80.6%	55.0% 49.2%	School and First College	>100 but ≤175 >175	17.5% 11.8%	2.6%	80.0% 86.0%	59.0% 54.2%
Social	Yes No	16.4% 16.9%	2.9% 3.1%	80.8% 80.1%	58.0% 48.6%	Sector of First College	Public NFF Private	17.2% 14.8%	2.9%	77.9% 82.5%	52.5%
Mathematics	Yes No	18.6% 15.6%	2.6%	78.8% 81.2%	54.7% 49.7%	State of First College	In-State Out-of-State	17.0% 17.5%	2.9%	80.1% 82.9%	49.5% 57.5%
Foreign guage	Yes No	17.8% 16.4%	3.1% 2.9%	79.0% 80.7%	57.3% 49.8%	Selectivity of	Most/Highly All other	13.2%	2.3%	84.5%	67.49
Science	Yes No	17.7% 16.2%	3.2% 2.9%	79.0% 81.0%	54.7% 49.9%	First College	Institutions	16.7%	3.0%	80.3%	50.0%

### Community College Outcomes among Reverse Transfer Students

Variable Gender	Categories Male	Associate's Degree Completion 14.7%	Certificate Completion 2.1%	No 2-Yr Degree 83.2%	Rate of 4-Yr Return 51.8%	Variable High School	Categories College Prep	Associate's Degree Completion 17.9%	Certificate Completion 3.1%	No 2-Yr Degree 79.0%	Rate of 4-Y Return 54.7%
					Highes	t Degree					
Va	riable	Cate	gories	D	ociate's egree npletion	Certific Comple		No 2-Yr Degr	ee	Rate of 4- Return	
High School GPA		3.0	5-4.0 0-3.4 5-2.9		21.8% 17.7% 13.7%	3	.9% .0% .1%	75.3 79.3 83.2	3%	61.1% 52.9% 46.9%	
		≤	2.4		11.0%	2	.8%	86.2	2%	41.1	1%
	m Quarter 3.5-4.0	21.8%	2.9%	75.3%	39.8%		East Central Southwest	21.8%	~ 5.0%	73.2%	53.0° 48.0°
	3.0-3.4	17.7%	3.0%	79.3%	52.9%		Southeast	~	~	~	48.89
h e	2.5-2.9	13.7%	3.1%	83.2%	46.9%	-	≤30	15.4%	3.2%	81.4%	44.9
	≤2.4	11.0%	2.8%	86.2%	41.1%	Distance Between High	>30 but ≤100	21.4%	3.3%	75.4%	49.8
	Yes	17.0%	3.0%	80.1%	55.0%	School and First	>100 but ≤175	17.5%	2.6%	80.0%	59.0
	No	16.4%	3.0%	80.6%	49.2%	College	>175	11.8%	2.2%	86.0%	54.2
al	Yes	16.4%	2.9%	80.8%	58.0%	Sector of First	Public	17.2%	2.9%	77.9%	52.
es	No	16.9%	3.1%	80.1%	48.6%	College	NFF Private	14.8%	2.6%	82.5%	49.
Mathematics	Yes	18.6%	2.6%	78.8%	54.7%	State of First	In-State	17.0%	2.9%	80.1%	49.
maniemancs	No	15.6%	3.2%	81.2%	49.7%	College	Out-of-State	14.5%	2.6%	82.9%	57.
Foreign	Yes	17.8%	3.1%	79.0%	57.3%	0-1-4-1-6	Most/Highly	13.2%	2.3%	84.5%	67.4
nguage	No Yes	16.4% 17.7%	2.9%	80.7% 79.0%	49.8% 54.7%	Selectivity of First College	All other Institutions	16.7%	3.0%	80.3%	50.0

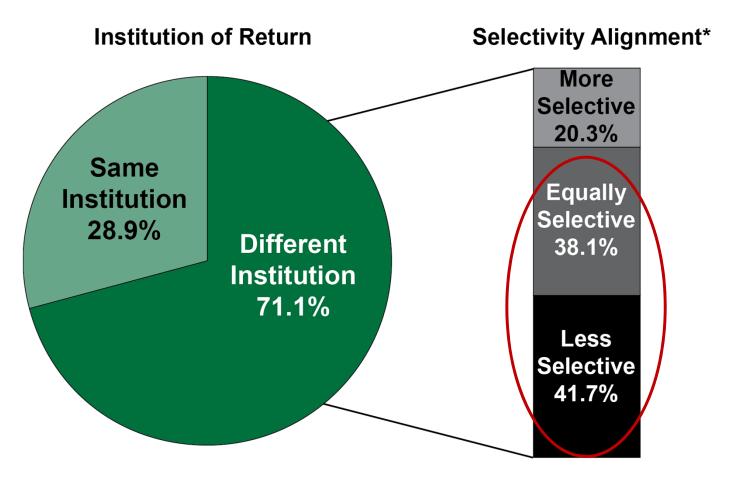
49.9%

AP Science

16.2%

2.9%

#### Institution of Return and Selectivity



<sup>\* 399</sup> individuals enrolled at institutions lacking a Barron's competitiveness rating.

More than 70% of reverse transfers who return to a four-year do so at a different institution.

	В	SE	Wald	Sig.	Odds Ratio
Gender: Male to Female	045	.049	.861	.353	.956
Race			20.959	.000	
Black to White	.176	.087	4.110	.043	1.192
Hispanic to White	158	.101	2.464	.117	.854
Asian to White	.321	.092	12.018	.001	1.378
Parental Income			3.277	.351	
Mid-High to High	092	.058	2.513	.113	.912
Mid-Low to High	080	.064	1.585	.208	.923
Low to High	111	.078	2.046	.153	.895
Expected to Work	057	.052	1.175	.278	.945
Expected to Receive Aid	093	.063	2.157	.142	.911
Number of Siblings	046	.019	5.950	.015	.955
Completed ACT Core	.082	.048	2.996	.083	1.086
ACT English	.000	.007	.002	.961	1.000
ACT Math	.003	.008	.176	.675	1.003
ACT Reading	.000	.006	.000	.995	1.000
ACT Science	006	.009	.495	.482	.994
Class Rank			6.574	.087	
Top to Bottom	.316	.216	2.140	.144	1.371
Second to Bottom	.167	.208	.650	.420	1.182
Third to Bottom	.135	.206	.427	.513	1.144
HS GPA			6.427	.093	
2.5-2.9 to ≤2.4	.084	.084	.991	.319	1.087
3.0-3.4 to ≤2.4	.169	.089	3.602	.058	1.184
≥3.5 to ≤2.4	.255	.105	5.838	.016	1.290
AP English	.017	.060	.078	.780	1.017
AP Social Studies	.131	.058	5.002	.025	1.140
AP Math	037	.059	.389	.533	.964
AP Foreign Language	.108	.056	3.737	.053	1.114
AP Science	139	.059	5.526	.019	.871
HS Program Type	2000 F 445		5.199	.074	
CTE to College Prep	032	.074	.187	.665	.968
General to College Prep	127	.056	5.184	.023	.881

	В	SE	Wald	Sig.	Odds Ratio
HS Program Type			5.199	.074	
CTE to College Prep	032	.074	.187	.665	.968
General to College Prep	127	.056	5.184	.023	.881
Highest Expected Degree			9.159	.010	
Less than Bachelor's to Bachelor's +	378	.126	8.990	.003	.685
Bachelor's to Bachelor's +	043	.049	.780	.377	.958
Need Help Making Educational Plans	.077	.046	2.854	.091	1.080
Need Writing Help	062	.058	1.140	.286	.940
Need Help Improving Studying Skills	040	.049	.664	.415	.961
Need Help with Comprehension	.023	.054	.188	.664	1.023
Need Help with Mathematics	035	.053	.423	.515	.966
Region			11.713	.069	
NE to Chicago	.174	.093	3.480	.062	1.190
NW to Chicago	035	.126	.076	.782	.966
WC to Chicago	.046	.130	.123	.725	1.047
EC to Chicago	.034	.127	.073	.788	1.035
SW to Chicago	.120	.122	.956	.328	1.127
SE to Chicago	.297	.164	3.282	.070	1.346
High School Mean ACT	.073	.013	31.754	.000	1.076
Distance from HS to Initial Four-Yr			9.099	.028	
>30-74 to ≤30	.016	.066	.056	.813	1.016
75-174 to ≤30	.177	.067	6.879	.009	1.194
175+ to ≤30	.129	.076	2.890	.089	1.138
Public to Private	.002	.051	.001	.974	1.002
In-State to Out-of-State	162	.060	7.365	.007	.851
Highly/Most Competitive to Other Institutions	.256	.079	10.596	.001	1.292
Distance from HS to CC: ≤9 Miles to >9 miles	042	.045	.880	.348	.958
Highest Two-Year Degree			21.496	.000	
Certificate to No Degree	452	.146	9.607	.002	.637
Associate's to No Degree	.174	.055	10.073	.002	1.190
Semester of Reverse Transfer	023	.002	151.887	.000	.978

ander Malo to Female	B 046	SE 049	Wald	Sig. 363	Odds Ratio	HC Brogram Time	В	SE	Wald 6 400	Sig.	Odds Ra
					В	SE	Wald	Sig.		Odds Ra	tio
Race							20.959	.00	00		
	L _				470					4.40	
Black to Whit	te				.176	.087	4.110	.04	13	1.19	2
Hispanic to V	Vhite				158	.101	2.464	.11	7	.85	4
Asian to Whi	te				.321	.092	12.018	.00	)1	1.37	8
T Math	.003	.008	.176	.675	1.003	WC to Chicago	.046	.130	.123	.725	1.047
T Readi	.000	.006	.000	.995	1.000	EC to Chicago	.034	.127	.073	.788	1.035
r Sci	006	.009	.495	.482	.994	SW to Chicago	.120	.122	.956	.328	1.12
			6.574	.087		SE to Chicago	.297	.164	3.282	.070	1.346
	.316	.216	2.140	.144	1.371	High School Mean ACT	.073	.013	31.754	.000	1.07
ottom	.167	.208	.650	.420	1.182	Distance from HS to Initial Four-Yr			9.099	.028	
Sottom	.135	.206	.427	.513	1.144	>30-74 to ≤30	.016	.066	.056	.813	1.01
			6.427	.093		75-174 to ≤30	.177	.067	6.879	.009	1.19
-2.9 to ≤2.4	.084	.084	.991	.319	1.087	175+ to ≤30	.129	.076	2.890	.089	1.13
.0-3.4 to ≤2.4	.169	.089	3.602	.058	1.184	Public to Private	.002	.051	.001	.974	1.00
3.5 to ≤2.4	.255	.105	5.838	.016	1.290	In-State to Out-of-State	162	.060	7.365	.007	
English	.017	,060	.078	.780	1.017	Highly/Most Competitive to Other In	stitutions .256	.079	10.596	.001	1.29
Social Studies	.131	.058	5.002	.025	1.140	Distance from HS to CC:	042	.045	.880	.348	.95
Math	037	.059	.389	.533	.964	≤9 Miles to >9 miles	1 Sec. 1 Sec.				
Foreign Language	.108	.056	3.737	.053	1.114	Highest Two-Year Degree			21.496	.000	
Science	139	.059	5.526	.019	871	Certificate to No Degree	452	.146	9.607	.002	.63
Program Type			5.199	.074		Associate's to No Degree	.174	.055	10.073	.002	1.19
OTE to College Prep	032	.074	.187	.665	.968	Semester of Reverse Transfer	023	.002	151.887	.000	.97
General to College Prep	127	.056	5.184	.023	.881						

Gender: Male to Female Race Black to White	B 045 .176	SE .049 .087	Wald .861 20.959 4.110	<b>Sig.</b> .353 .000 .043	Odds Ratio .956 1.192	HS Program Type CTE to College Prep General to College Prep		032 127	.074 .056	Wald 5.199 .187 5.184	Sig. .074 .665 .023	Odds Ratio .968 .881
					В	SE	Wald		Sig.		Odds Ra	tio
Parental Income							3.27	7	.35	1		
Mid-High to Higl	า				092	.058	2.51	3	.11	3	.91	2
Mid-Low to High	1				080	.064	1.58	5	.20	8	.92	3
Low to High					111	.078	2.04	6	.15	3	.89	5
Expected to Work	(				057	.052	1.17	5	.27	8	.94	5
Expected to Rece	ive Aid	d			093	.063	2.15	7	.14	2	.91	1
Number of Sibling	js –				046	.019	5.95	0	.01	5	.95	5
CAUNCIA RUNZAR	.100	.000	5.002	.000	1.104	rubiio to Frivate		.002	.001	.001	.074	1.002
≥3.5 to ≤2.4	.255	.105	5.838	.016	1.290	In-State to Out-of-State		162	.060	7.365	.007	.851
AP Englis'	.017	.060	.078	.780	1.017	Highly/Most Competitive to Oth	er Institutions	.256	.079	10.596	.001	1.292
AP Soo	.131 037	.058	5.002	.025	1.140	Distance from HS to CC: ≤9 Miles to >9 miles		042	.045	.880	.348	.958
guage	.108	.056	3.737	.053	1.114	Highest Two-Year Degree				21.496	.000	
	139	.059	5.526	.019	.871	Certificate to No Degree		452	.146	9.607	.002	.637
m Type			5.199	.074		Associate's to No Degree		.174	.055	10.073	.002	1.190
to College Prep	032	.074	.187	.665	.968	Semester of Reverse Transfer		023	.002	151.887	.000	.978

neral to College Prep

-.127

	8	SE	Wald	Sig.	Odds Ratio			8	SE	Wald	Sig.	Odds Ratio
Gender: Male to Female	045	.049	.861	.353	.956	HS Program Type				5.199	.074	
Race			20.959	.000		CTE to College Prep		032	.074	.187	.665	.968
Black to White	.176	.087	4.110	.043	1.192	General to College Prep		127	.056	5.184	.023	.881
Hispanic to White	158	.101	2.464	.117	.854	Highest Expected Degree				9.159	010	
Asian to White	.321	.092	12.018	.001	1.378	Less than Bachelor's to Bachelo	r's +	378	.126	8.990	.003	.685
Parental Income			3.277	.351		Bachelor's to Bachelor's +		043	.049	.780	.377	.958
Mid-High to High	_ 007	nse.	2.513	112	049	Need Heln Making Educational Bl	lane	077	OAR	2 05/	nad	1.090
					В	SE	Wald		Sig.		Odds Rat	io
						<u> </u>					Oudo Mut	
HS GPA							6.427	7	.09	3		_
2.5-2.9 to ≤2.4					.084	.084	.991		.31	9	1.08	7
										_		
3.0-3.4 to ≤2.4					.169	.089	3.602	2	.05	8	1.18	4
≥3.5 to ≤2.4					.255	.105	5.838	3	.01	6	1.29	0
HS GPA			6.427	.093		75-174 to ≤30		.177	.067	6.879	.009	1.194
2.5-2.9 ta2	.084	.084	.991	.319	1.087	175+ to ≤30		.129	.076	2.890	.089	1,138
3.0-3	.169	.089	3.602	.058	1.184	Public to Private		.002	.051	.001	.974	1.002
≥3	.255	.105	5.838	.016	1.290	In-State to Out-of-State		162	.060	7.365	.007	.851
AP	.017	.060	.078	.780	1.017	Highly/Most Competitive to Other	rInstitutions	.256	.079	10.596	.001	1.292
des	.131	.058	5.002	.025	1.140	Distance from HS to CC: ≤9 Miles to >9 miles		042	.045	.880	.348	.958
	037	.059	.389	.533	.964	Highest Two-Year Degree				21.496	.000	
gn Language	.108	.056	3.737	.053	1.114	Certificate to No Degree		452	.146	9.607	.002	.637
lence	139	.059	5.526	.019	.871	Associate's to No Degree		.174	.055	10.073	.002	1.190
Program Type			5.199	.074		Semester of Reverse Transfer		023	.002	151.887	.002	.978
CTE to College Prep	032	.074	.187	.665	.968	Schlester of Reverse Hallster		*.023	.002	101.06/	.000	3/0
General to College Prep	127	.056	5.184	.023	.881							

		SE	Wald		Odds Ratio		В	SE	Wald		Odds Ra
Gender: Male to Female	045	.049	.861	.353	.956	HS Program Type			5.199	.074	
Race			20.959	000		CTE to College Prep	032	.074	.187	.665	.968
Black to White	.176	.087	4.110	.043	1.192	General to College Prep	127	.056	5.184	.023	.88
Hispanic to White	158	.101	2.464	.117	.854	Highest Expected Degree			9.159	.010	
Asian to White	.321	.092	12.018	001	1.378	Less than Bachelor's to Bachelor's +	378	.126	8.990	.003	.68
arental Income			3.277	.351		Bachelor's to Bachelor's +	043	.049	.780	.377	.95
Mid-High to High	092	.058	2.513	.113	.912	Need Help Making Educational Plans	.077	.046	2.854	.091	1.08
Mid-Low to High	080	.064	1.585	.208	.923	Need Writing Help	062	.058	1.140	.286	.94
Low to High	- 111	.078	2.046	.153	.895	Need Help Improving Studying Skills	040	.049	.664	.415	.96
					В	SE I	Wald	Sig.		Odds Ra	tio
High School M	ean ACT				.073	.013 3	31.754	.00	0	1.07	<b>'</b> 6
Second to Bott	.167	.208	.650	.420	1.182	Distance from HS to Initial Four-Yr			9.099	.028	
Third to Patt	.135	.206	.427	.513	1.144	>30-74 to ≤30	.016	.066	.056	.813	1.01
G GPA			6.427	.093		75-174 to ≤30	.177	.067	6.879	.009	1.19
2.5	.084	.084	.991	.319	1.087	175+ to ≤30	.129	.076	2.890	.089	1.13
	.169	.089	3.602	.058	1.184	Public to Private	.002	.051	.001	.974	1.00
	.255	.105	5.838	.016	1.290	In-State to Out-of-State	162	.060	7.365	.007	
	.017	.060	.078	.780	1.017	Highly/Most Competitive to Other Ins	titutions .256	.079	10.596	.001	1.29
Studies	.131	.058	5.002	.025	1.140	Distance from HS to CC:	042	.045	.880	.348	.95
th	037	.059	.389	.533	.964	≤9 Miles to >9 miles	=,042	.040			.85
Foreign Language	.108	.056	3.737	.053	1.114	Highest Two-Year Degree			21.496	.000	
Science	139	.059	5.526	.019	.871	Certificate to No Degree	452	.146	9.607	.002	.63
S Program Type			5.199	.074		Associate's to No Degree	.174	.055	10.073	.002	1.19
						Semester of Reverse Transfer		000	454 007		
CTE to College Prep	032	.074	.187	.665	.968	Semester of Reverse Transfer	023	.002	151.887	.000	.97

					Odds Ratio
Gender: Male to Female	045	.049	.861	.353	.956
Race			20.959	.000	
Black to White	.176	.087	4.110	.043	1.192
Hispanic to White	158	.101	2.464	.117	.854
Asian to White	.321	.092	12.018	.001	1.378
Parental Income			3.277	.351	
Mid-High to High	092	.058	2.513	.113	.912
Mid-Low to High	080	.064	1.585	.208	.923
Low to High	111	.078	2.046	.153	.895
Expected to Work	057	.052	1.175	.278	.945
Expected to Receive Aid	093	.063	2.157	.142	.911

					Odds Ratio
HS Program Type			5.199	.074	
CTE to College Prep	032	.074	.187	.665	.968
General to College Prep	127	.056	5.184	.023	.881
Highest Expected Degree			9.159	.010	
Less than Bachelor's to Bachelor's +	378	.126	8.990	.003	.685
Bachelor's to Bachelor's +	043	.049	.780	.377	.958
Need Help Making Educational Plans	.077	.046	2.854	.091	1.080
Need Writing Help	062	.058	1.140	.286	.940
Need Help Improving Studying Skills	040	.049	.664	.415	.961
Need Help with Comprehension	.023	.054	.188	.664	1.023
Need Help with Mathematics	035	.053	.423	.515	.966

	В	SE	Wald	Sig.	Odds Ratio
Distance from HS to Initial Four-Yr			9.099	.028	
>30-74 to ≤30	.016	.066	.056	.813	1.016
75-174 to ≤30	.177	.067	6.879	.009	1.194
175+ to ≤30	.129	.076	2.890	.089	1.138

4)		7976			
AP Math	037	.059	.389	.533	.964
AP Foreig	.108	.056	3.737	.053	1.114
AP Sci	139	.059	5.526	.019	.871
IS P			5.199	.074	
ge Prep	032	.074	.187	.665	.968
College Prep	127	.056	5.184	.023	.881

≤9 Miles to >9 miles	042	.045	.880	.348	.958
Highest Two-Year Degree			21.496		
Certificate to No Degree	452	.146	9.607	.002	.637
Associate's to No Degree	.174	.055	10.073	.002	1.190
Semester of Reverse Transfer	023	.002	151.887	.000	.978

					Odds Ratio
Gender: Male to Female	045	.049	.861	.353	.956
Race			20.959	.000	
Black to White	.176	.087	4.110	.043	1.192
Hispanic to White	158	.101	2.464	.117	.854
Asian to White	.321	.092	12.018	.001	1.378
Parental Income			3.277	.351	
Mid-High to High	092	.058	2.513	.113	.912
Mid-Low to High	080	.064	1.585	.208	.923
Low to High	111	.078	2.046	.153	.895
Expected to Work	057	.052	1.175	.278	.945
Expected to Receive Aid	093	.063	2.157	.142	.911
Number of Siblings	046	.019	5.950	.015	.955
Completed ACT Core	.082	.048	2.996	.083	1.086

	В	SE	Wald	Sig.	Odds Ratio
HS Program Type		***************************************	5.199	.074	
CTE to College Prep	032	.074	.187	.665	.968
General to College Prep	127	.056	5.184	.023	.881
Highest Expected Degree			9.159	.010	
Less than Bachelor's to Bachelor's +	378	.126	8.990	.003	.685
Bachelor's to Bachelor's +	043	.049	.780	.377	.958
Need Help Making Educational Plans	.077	.046	2.854	.091	1.080
Need Writing Help	062	.058	1.140	.286	.940
Need Help Improving Studying Skills	040	.049	.664	.415	.961
Need Help with Comprehension	.023	.054	.188	.664	1.023
Need Help with Mathematics	035	.053	.423	.515	.966
Region			11.713	.069	
NE to Chicago	.174	.093	3.480	.062	1.190

					В	SE	Wald		Sig.		Odds Ra	tio
In-State to Out-	of-State				162	.060	7.36	5	.00	07	.85	1
Highly/Most Co	mpetitive t	o Othe	r Institu	itions	.256	.079	10.59	ô .	.00	01	1.29	2
								_				
≥3.5 to ≤2.4	.255	.105	5.838	.016	1.290	In-State to Out-of-State		162	.060	7.365	.007	.851
Englis	.017	.060	.078	.780	1.017	Highly/Most Competitive to Othe	er Institutions	.256	.079	10.596	.001	1.292
Soc	.131	.058	5.002	.025	1.140	Distance from HS to CC: ≤9 Miles to >9 miles		042	.045	.880	.348	.958
guage	.108	.056	3.737	.053	1.114	Highest Two-Year Degree				21.496	.000	
	139	.059	5.526	.019	.871	Certificate to No Degree		452	.146	9.607	.002	.637
m Type			5.199	.074		Associate's to No Degree		.174	.055	10.073	.002	1.190
to College Prep	032	.074	.187	.665	.968	Semester of Reverse Transfer		023	.002	151.887	.000	.978
eneral to College Prep	127	.056	5.184	.023	.881							

					Odds Ratio	
Gender: Male to Female	045	.049	.861	.353	.956	HS
Race			20.959	.000		
Black to White	.176	.087	4.110	.043	1.192	
Hispanic to White	158	.101	2.464	.117	.854	Hig
Asian to White	.321	.092	12.018	.001	1.378	
Parental Income			3.277	.351		
Mid-High to High	092	.058	2.513	.113	.912	Ne
Mid-Low to High	080	.064	1.585	.208	.923	Ne
Low to High	111	.078	2.046	.153	.895	Ne
Expected to Work	057	.052	1.175	.278	.945	Ne
Expected to Receive Aid	093	.063	2.157	.142	.911	Ne
Number of Siblings	046	.019	5.950	.015	.955	Re
Completed ACT Core	.082	.048	2.996	.083	1.086	
ACT English	.000	.007	.002	.961	1.000	
ACT Math	.003	.008	.176	.675	1.003	
ACT Reading	.000	.006	.000	.995	1.000	
ACT Science	006	.009	.495	.482	.994	

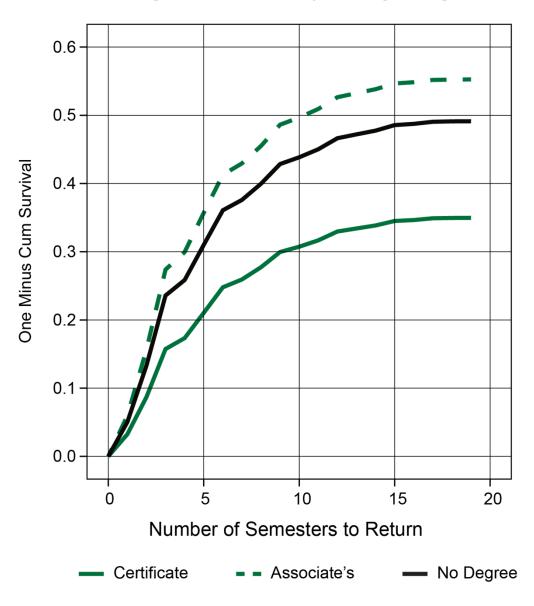
	E	SE	Wald	Sio.	Odds Ratio
HS Program Type			5.199	.074	
CTE to College Prep	032	.074	.187	.665	.968
General to College Prep	127	.056	5.184	.023	.881
Highest Expected Degree			9.159	.010	
Less than Bachelor's to Bachelor's +	378	.126	8.990	.003	.685
Bachelor's to Bachelor's +	043	.049	.780	.377	.958
Need Help Making Educational Plans	.077	.046	2.854	.091	1.080
Need Writing Help	062	.058	1.140	.286	.940
Need Help Improving Studying Skills	040	.049	.664	.415	.961
Need Help with Comprehension	.023	.054	.188	.664	1.023
Need Help with Mathematics	035	.053	.423	.515	.966
Region			11.713	.069	
NE to Chicago	.174	.093	3.480	.062	1.190
NW to Chicago	035	.126	.076	.782	.966
WC to Chicago	.046	.130	.123	.725	1.047
EC to Chicago	.034	.127	.073	.788	1.035
SW to Chicago	.120	.122	.956	.328	1.127

	В	SE	Wald	Sig.	Odds Ratio
Highest Two-Year Degree			21.496	.000	
Certificate to No Degree	452	.146	9.607	.002	.637
Associate's to No Degree	.174	.055	10.073	.002	1.190

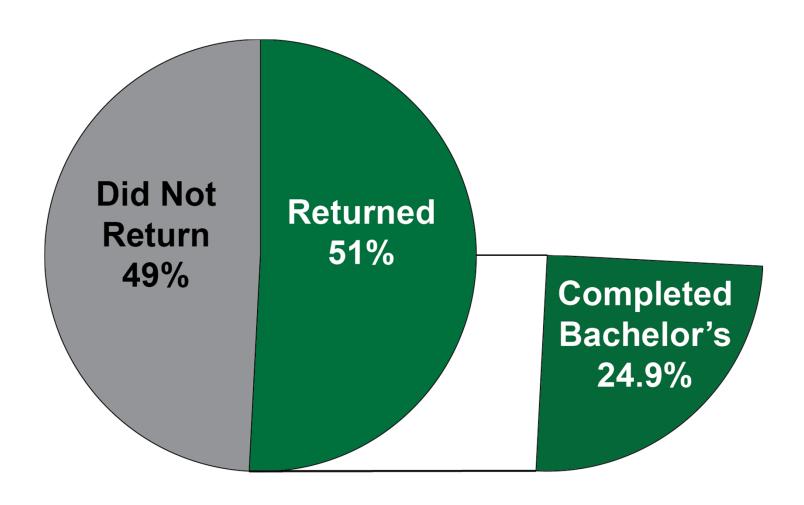
A												
AP Science		139	.059	5.526	.019	.871	Certificate to No Degree	452	.146	9.607	.002	
HS Progra		NO.TOX	370000	5 199	.074		Associate's to No Degree	.174	.055	10.073	.002	1.190
CTE	en	032	.074	.187	.665	.968	Semester of Reverse Transfer	023	.002	151.887		.978
	- OP				.000	,000						

#### **Model Adjusted Time to Return**

#### Highest Community College Degree



### Bachelor's Completion among Reverse Transfer Students



	В	Sig.	Odds Ratio
Gender: Male to Female	218	.002	.804
Race		.042	
Black to White	414	.006	.661
Hispanic to White	029	.832	.971
Asian to White	137	.309	.872
Parental Income		.355	
Mid-High to High	.026	.749	1.026
Mid-Low to High	094	.310	.911
Low to High	148	.218	.872
Expected to Work	.081	.281	1.084
Expected to Receive Aid	052	.552	.949
Number of Siblings	.016	.553	1.017
Completed ACT Core	.039	.565	1.040
ACT English	004	.625	.995
ACT Math	.012	.293	1.012
ACT Reading	004	.642	.996
ACT Science	006	.619	.994
Class Rank		.303	
Top to Bottom	.611	.128	1.842
Second to Bottom	.508	.193	1.662
Third to Bottom	.408	.298	1.504
HS GPA		.201	
2.5-2.9 to ≤2.4	014	.918	.986
3.0-3.4 to ≤2.4	.044	.750	1.045
≥3.5 to ≤2.4	.218	.169	1.243
AP English	.019	.822	1.019
AP Social Studies	057	.479	.945
AP Math	049	.551	.952
AP Language	.152	.050	1.165
AP Science	052	.524	.949

	В	Sig.	Odds Ratio
HS Program Type		.950	
CTE to College Prep	.035	.753	1.036
General to College Prep	.001	.987	1.001
Highest Expected Degree		.244	
Less than Bachelor's to Bachelor's +	163	.457	.850
Bachelor's to Bachelor's +	.095	.169	1.101
Region		.032	
NE to Chicago	133	.404	.875
NW to Chicago	383	.056	.682
WC to Chicago	128	.522	.880
EC to Chicago	119	.550	.888
SW to Chicago	601	.004	.559
SE to Chicago	304	.242	.738
High School Mean ACT	.037	.062	1.037
Distance between HS and CC: ≤9 Miles to >9 Miles	.055	.394	1.057
Highest Degree from CC		.000	
Certificate to No Degree	582	.041	.559
Associate's to No Degree	.255	.001	1.300
Returned to the Same 4yr	.232	.006	1.262
Selectivity Alignment		.042	
Equal to Less Competitite	.255	.018	1.291
More to Less Competitive	.162	.063	1.176
Returned to Public	.009	.909	1.009
Returned In-State	.245	.021	1.277
Returned to a Highly/Most Competitive	.290	.019	1.337
Distance Between HS and 4yr		.662	
>30 – ≤100 to ≤30	.032	.707	1.033
>100 – ≤175 to ≤30	.011	.915	1.011
>175 to ≤30	114	.345	.892
Semester of Return	027	.000	.973

Gender: Male to Female	218	<b>Sig</b> . .002	Odds Ratio .804	HS Program Type		В	Sig. (	Odds Ratio
				В	Sig.	(	Odds Rati	o
Gender: Male to Fe	male			218	.00	2	.804	
Race					.04	2		
Black to White				414	.00	6	.661	
Hispanic to White			029	.83	2	.971		
Asian to White				137	137 .309 .8		.872	,000,000,000
1								
ACT Science	006	.619	.994	Certificate to No Degree		582	.041	.559
Class Ra		.303		Associate's to No Degree		.255	.001	1.300
To	.611	.128	1.842	Returned to the Same 4yr		.232	.006	1.262
ottom	.508	.193	1.662	Selectivity Alignment			.042	
Sottom	.408	.298	1.504	Equal to Less Competitite		.255	.018	1.291
	04.4	.201	000	More to Less Competitive		.162	.063	1.176
2-2.9 to ≤2.4	014	.918	.986	Returned to Public  Returned In-State		.009	.909	1.009
3.0-3.4 to ≤2.4 ≥3.5 to ≤2.4	.044	.750	1.045 1.243	Returned in-State  Returned to a Highly/Most Competitiv	10	.245	.021	1.277
AP English	.019	.822	1.019	Distance Between HS and 4yr		.200	.662	1.007
AP Social Studies	057	.479	.945	>30 - ≤100 to ≤30		.032	.707	1.033
AP Math	049	.551	.952	>100 - ≤175 to ≤30		.011	.915	1.011
AP Language	.152	.050	1.165	>175 to ≤30		114	.345	.892
AP Science	052	.524	.949	Semester of Return		027	.000	.973

	8	Sig.	Odds Ratio			В	Sig. O	dds Ratio
Gender: Male to Female	218	.002	804	HS Program Type			.950	
Race		.042		CTE to College Prep		.035	.753	1.036
Black to White	414	.006	.661	General to College Prep		.001	.987	1.001
Hispanic to White	029	.832	.971	Highest Expected Degree			.244	
4	108	242	***		•	488	(CE	2=0
1								
				В	Sig.		Odds Ratio	
Highest Degree from	m CC				.000			
Certificate to No D				582	.041		.559	
	•			055	004		4 200	
Associate's to No	Degree			.255	.001		1.300	, conservation
				•				
<u> </u>								
ACT Science	006	.619	.994	Certificate to No Degree		582	.041	.559
Class R		.303		Associate's to No Degree		.255	.001	1.300
10	.611	.128	1.842	Returned to the Same 4yr		.232	.006	1.262
Jottom	.508	.193	1.662	Selectivity Alignment		055	.042	4.004
Bottom	.408	.298	1.504	Equal to Less Competitite		.255	.018	1.291
s-2.9 to ≤2.4	014	.201 .918	.986	More to Less Competitive  Returned to Public		.162	.063	1.176
3.0-3.4 to ≤2.4	.044	.750	1.045	Returned In-State		.245	.909	1.009
≥3.5 to ≤2.4	.218	.750	1.045	Returned to a Highly/Most Compet	itivo	.245	.021	1.337
		2.1.222	1.019		itive	.290	.662	1.557
AP Coolid Studies	.019	.822		Distance Between HS and 4yr >30 – ≤100 to ≤30		.032	.707	1 022
AP Social Studies	057	.479	.945					1.033
AP Math	049	.551	.952	>100 – ≤175 to ≤30		.011	.915	1.011
AP Calendar	.152	.050	1.165	>175 to ≤30		114	.345	.892
AP Science	052	.524	.949	Semester of Return		027	.000	.973

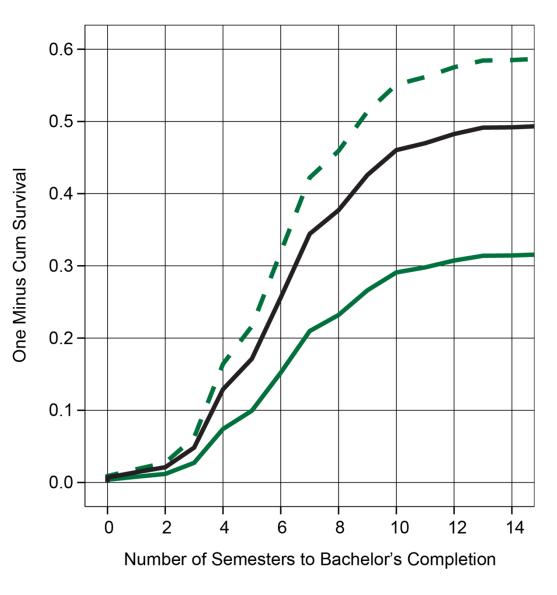
	Е	Sig.	Odds Ratio		В	Sig.	Odds Ratio
Gender: Male to Female	218	.002	.804	HS Program Type		.950	
Race		.042	***************************************	CTE to College Prep	.035	.753	1.036
Black to White	414	.006	.661	General to College Prep	.001	.987	1.001
Hispanic to White	029	.832	.971	Highest Expected Degree		.244	
Asian to White	137	.309	.872	Less than Bachelor's to Bachelor's +	163	.457	.850
Parental Income		.355		Bachelor's to Bachelor's +	.095	.169	1.101
Mid-High to High	.026	.749	1.026	Region		.032	
Mid-Low to High	094	.310	.911	NE to Chicago	133	.404	.875
<u> </u>	110	818	222	muc ac	000	aca	999

	В	Sig.	Odds Ratio
Returned to the Same 4yr	.232	.006	1.262
Selectivity Alignment		.042	
Equal to Less Competitite	.255	.018	1.291
More to Less Competitive	.162	.063	1.176
Returned to Public	.009	.909	1.009
Returned In-State	.245	.021	1.277

AP Englis	h	.019	.822	1.019	Distance Between HS and 4yr		.662	
AP Soci		057	.479	.945	>30 - ≤100 to ≤30	.032	.707	1.033
AP M		049	.551	.952	>100 - ≤175 to ≤30	.011	.915	1.011
AP		.152	.050	1.165	>175 to ≤30	114	.345	.892
		052	.524	.949	Semester of Return	027	.000	.973

#### Model Adjusted Time to Bachelor's Completion

#### Highest Community College Degree

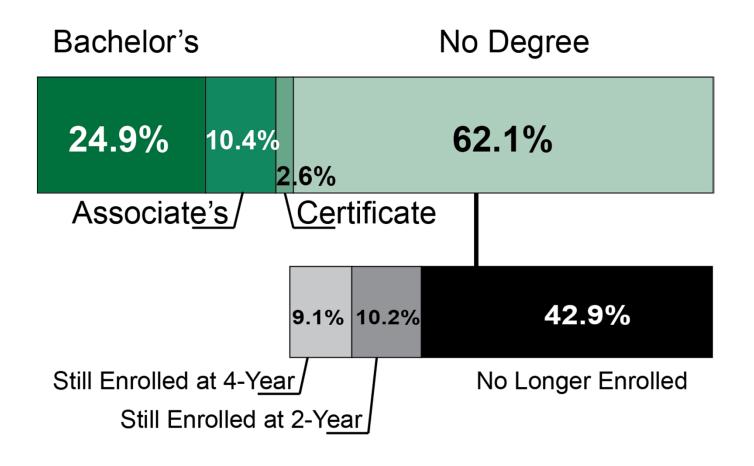




### **Reverse Transfer and End of Study Status**

End of Study Status									
			N	Non-Completers					
		Bachelor's Degree or Higher	Still Enrolled at 4-yr	Still Enrolled at 2-yr	No Longer Enrolled	Total			
Reverse Transfer Students	Row % Column %	24.9% 7.2%	12.1% 54.9%	12.4% 100.0%	50.6%	100.0%			
Other Four- Year Starters	Row % Column %	84.3% 92.8%	2.6% 45.1%	0.0% 0.0%	13.1% 49.8%	100.0% 79.3%			
Total	Row % Column %	72.0% 100.0%	4.6% 100.0%	2.6% 100.0%	20.9% 100.0%	100.0% 100.0%			

### Highest Degree and End of Study Status for Reverse Transfer Students



Factors		Reverse Transferring	Returning to a Four-Year	Bachelor's Completion
Demographics	Gender (Male)	Increased odds	No significant effects	Decreased odds
	Race (White)	No significant effects	Decreased odds*	Increased odds*
Financial Aid	Parental Income (Middle)	Increased odds*	No significant effects	No significant effects
	Expected to Work	Increased odds	No significant effects	No significant effects
	Received Financial Aid	Increased odds	No significant effects	No significant effects
	Siblings	Increased odds	Decreased odds	No significant effects
Academic	ACT Core	No significant effects	No significant effects	No significant effects
Preparation/	ACT English	Decreased odds	No significant effects	No significant effects
College Readiness	ACT Math	Decreased odds	No significant effects	No significant effects
	ACT Reading	No significant effects	No significant effects	No significant effects
	ACT Science	Increased odds	No significant effects	No significant effects
	Class Rank (Bottom)	Increased odds*	No significant effects	No significant effects
	GPA (≤2.4)	Increased odds*	Decreased odds*	No significant effects
	AP English	No significant effects	No significant effects	No significant effects
	AP Social Studies	Decreased odds	Increased odds	No significant effects
	AP Math	No significant effects	No significant effects	No significant effects
	AP Science	Increased odds	Decreased odds	No significant effects
	AP Foreign Language	Decreased odds	No significant effects	No significant effects
	HS Program (College Prep)	No significant effects	Increased odds*	No significant effects
	Expected Degree (BA+)	Increased odds*	Increased odds*	No significant effects
	Help Ed Plans	Decreased odds	No significant effects	
	Help Writing	No significant effects	No significant effects	
	Help Studying	Increased odds	No significant effects	
	Help Reading	Decreased odds	No significant effects	
	Help Math	Decreased odds	No significant effects	
High School	Region (Chicago)	Decreased odds*	No significant effects	Increased odds*
	Mean ACT	Decreased odds	Increased odds	No significant effects
First Four-Year	Distance from HS (≤30 miles)	Increased odds*	Decreased odds*	
	Sector (Public)	Increased odds	No significant effects	
	State (Illinois)	Increased odds	Decreased odds	
	Selectivity (Highly/Most)	Decreased odds	Increased odds	
Community	Distance from HS		No significant effects	No significant effects
College	Associate's		Increased odds*	Increased odds*
Four-Year of	Same 4-Yr			Increased odds
Return	Equally Competitive to Less			Increased odds*
	Sector (Public)			No significant effects
	State (Illinois)			Increased odds
	Selectivity (Highly/Most)			Increased odds
	Distance (≤30)			No significant effects

<sup>\*</sup> At lease one dummy variable comparison indicated a statistically significant difference.

Factors		Reverse Transferring	Returning to a Four-Year	Bachelor's Completion	
Demographics	Gender (Male)	Increased odds	No significant effects	Decreased odds	
	Race (White)	No significant effects	Decreased odds*	Increased odds*	

<sup>\*</sup> At lease one dummy variable comparison indicated a statistically significant difference.

	GPA (≤2.4)	Increased odds*	Decreased odds*	No significant effects
	AP English	No significant effects	No significant effects	No significant effects
	AP Social Studies	Decreased odds	Increased odds	No significant effects
	AP Math	No significant effects	No significant effects	No significant effects
	AP Science	Increased odds	Decreased odds	No significant effects
	AP Foreign Language	Decreased odds	No significant effects	No significant effects
	HS Program (College Prep)	No significant effects	Increased odds*	No significant effects
	Expected Degree (BA+)	Increased odds*	Increased odds*	No significant effects
	Help Ed Plans	Decreased odds	No significant effects	
	Help Writing	No significant effects	No significant effects	
	Help Studying	Increased odds	No significant effects	
	Help Reading	Decreased odds	No significant effects	
	Help Math	Decreased odds	No significant effects	
High School	Region (Chicago)	Decreased odds*	No significant effects	Increased odds*
	Mean ACT	Decreased odds	Increased odds	No significant effects
First Four-Year	Distance from HS (≤30 miles)	Increased odds*	Decreased odds*	
	Sector (Public)	Increased odds	No significant effects	
	State (Illinois)	Increased odds	Decreased odds	
	Selectivity (Highly/Most)	Decreased odds	Increased odds	
Community	Distance from HS		No significant effects	No significant effects
College	Associate's		Increased odds*	Increased odds*
Four-Year of	Same 4-Yr			Increased odds
Return	Equally Competitive to Less			Increased odds*
	Sector (Public)			No significant effects
	State (Illinois)			Increased odds
	Selectivity (Highly/Most)			Increased odds
	Distance (≤30)			No significant effects

			Returning to a	
Factors		Reverse Transferring	Four-Year	Bachelor's Completion
Demographics	Gender (Male)	Increased odds	No significant effects	Decreased odds
	Race (White)	No significant effects	Decreased odds*	Increased odds*

Factors		Reverse Transferring	Returning to a Four-Year	Bachelor's Completion
Financial Aid	Parental Income (Middle)	Increased odds*	No significant effects	No significant effects
	Expected to Work	Increased odds	No significant effects	No significant effects
	Received Financial Aid	Increased odds	No significant effects	No significant effects
	Siblings	Increased odds	Decreased odds	No significant effects

<sup>\*</sup> At lease one dummy variable comparison indicated a statistically significant difference.

	Expected Degree (BA+)	Increased odds*	Increased odds*	No significant effects
	Help Ed Plans	Decreased odds	No significant effects	
	Help Writing	No significant effects	No significant effects	
	Help Studying	Increased odds	No significant effects	
	Help Reading	Decreased odds	No significant effects	
	Help Math	Decreased odds	No significant effects	
High School	Region (Chicago)	Decreased odds*	No significant effects	Increased odds*
	Mean ACT	Decreased odds	Increased odds	No significant effects
First Four-Year	Distance from HS (≤30 miles)	Increased odds*	Decreased odds*	
	Sector (Public)	Increased odds	No significant effects	
	State (Illinois)	Increased odds	Decreased odds	
	Selectivity (Highly/Most)	Decreased odds	Increased odds	
Community	Distance from HS		No significant effects	No significant effects
College	Associate's		Increased odds*	Increased odds*
Four-Year of	Same 4-Yr			Increased odds
Return	Equally Competitive to Less			Increased odds*
	Sector (Public)			No significant effects
	State (Illinois)			Increased odds
	Selectivity (Highly/Most)			Increased odds
	Distance (≤30)			No significant effects

Factors		Reverse Transferring	Returning to a Four-Year	Bachelor's Completion
Demographics	Gender (Male)	Increased odds	No significant effects	Decreased odds
	Race (White)	No significant effects	Decreased odds*	Increased odds*
Financial Aid	Parental Income (Middle)	Increased odds*	No significant effects	No significant effects
	Expected to Work	Increased odds	No significant effects	No significant effects
	Received Financial Aid	Increased odds	No significant effects	No significant effects
	Siblings	Increased odds	Decreased odds	No significant effects
Academic	ACT Core	No significant effects	No significant effects	No significant effects
Preparation/	ACT English	Decreased odds	No significant effects	No significant effects
College Readiness	ACT Math	Decreased odds	No significant effects	No significant effects
· touumooo	ACT Reading	No significant effects	No significant effects	No significant effects
	ACT Science	Increased odds	No significant effects	No significant effects
	Class Rank (Bottom)	Increased odds*	No significant effects	No significant effects
	GPA (≤2.4)	Increased odds*	Decreased odds*	No significant effects
	AP English	No significant effects	No significant effects	No significant effects
	AP Social Studies	Decreased odds	Increased odds	No significant effects
	AP Math	No significant effects	No significant effects	No significant effects
	AP Science	Increased odds	Decreased odds	No significant effects
	AP Foreign Language	Decreased odds	No significant effects	No significant effects
	HS Program (College Prep)	No significant effects	Increased odds*	No significant effects
	Expected Degree (BA+)	Increased odds*	Increased odds*	No significant effects
	Help Ed Plans	Decreased odds	No significant effects	
	Help Writing	No significant effects	No significant effects	
	Help Studying	Increased odds	No significant effects	
	Help Reading	Decreased odds	No significant effects	
	Help Math	Decreased odds	No significant effects	
High School	Region (Chicago)	Decreased odds*	No significant effects	Increased odds*
	Mean ACT	Decreased odds	Increased odds	No significant effects
First Four-Year	Distance from HS (≤30 miles)	Increased odds*	Decreased odds*	
	Sector (Public)	Increased odds	No significant effects	
	State (Illinois)	Increased odds	Decreased odds	
	Selectivity (Highly/Most)	Decreased odds	Increased odds	
Community	Distance from HS		No significant effects	No significant effects
College	Associate's		Increased odds*	Increased odds*
Four-Year of	Same 4-Yr			Increased odds
Return	Equally Competitive to Less			Increased odds*
	Sector (Public)			No significant effects
	State (Illinois)			Increased odds
	Selectivity (Highly/Most)			Increased odds
	Distance (≤30)			No significant effects

<sup>\*</sup> At lease one dummy variable comparison indicated a statistically significant difference.

#### Impact Factors on Time to Reverse Transfer, Return

Factors		Reverse Transferring	Returning to a Four-Year	Bachelor's Completion
Academic	ACT Core	No significant effects	No significant effects	No significant effects
Preparation/	ACT English	Decreased odds	No significant effects	No significant effects
College Readiness	ACT Math	Decreased odds	No significant effects	No significant effects
	ACT Reading	No significant effects	No significant effects	No significant effects
	ACT Science	Increased odds	No significant effects	No significant effects
	Class Rank (Bottom)	Increased odds*	No significant effects	No significant effects
	GPA (≤2.4)	Increased odds*	Decreased odds*	No significant effects
	AP English	No significant effects	No significant effects	No significant effects
	AP Social Studies	Decreased odds	Increased odds	No significant effects
	AP Math	No significant effects	No significant effects	No significant effects
	AP Science	Increased odds	Decreased odds	No significant effects
	AP Foreign Language	Decreased odds	No significant effects	No significant effects
	HS Program (College Prep)	No significant effects	Increased odds*	No significant effects
	Expected Degree (BA+)	Increased odds*	Increased odds*	No significant effects
	Help Ed Plans	Decreased odds	No significant effects	
	Help Writing	No significant effects	No significant effects	
	Help Studying	Increased odds	No significant effects	
	Help Reading	Decreased odds	No significant effects	
	Help Math	Decreased odds	No significant effects	

<sup>\*</sup> At lease one dummy variable comparison indicated a statistically significant difference.

Factors		Reverse Transferring	Returning to a Four-Year	Bachelor's Completion
		and the second s		
Demographics	Gender (Male)	Increased odds	No significant effects	Decreased odds
	Race (White)	No significant effects	Decreased odds*	Increased odds*
Financial Aid	Parental Income (Middle)	Increased odds*	No significant effects	No significant effects
	Expected to Work	Increased odds	No significant effects	No significant effects
	Received Financial Aid	increased odds	No significant effects	No significant effects
	Siblings	Increased odds	Decreased odds	No significant effects

Factors		Reverse Transferring	Returning to a Four-Year	Bachelor's Completion
First Four-Year	Distance from HS (≤30 miles)	Increased odds*	Decreased odds*	
	Sector (Public)	Increased odds	No significant effects	
	State (Illinois)	Increased odds	Decreased odds	
	Selectivity (Highly/Most)	Decreased odds	Increased odds	

<sup>\*</sup> At lease one dummy variable comparison indicated a statistically significant difference.

	Help Math	Decreased odds	No significant effects	
High School	Region (Chicago)	Decreased odds*	No significant effects	Increased odds*
	Mean ACT	Decreased odds	Increased odds	No significant effects
First Four-Year	Distance from HS (≤30 miles)	Increased odds*	Decreased odds*	
	Sector (Public)	Increased odds	No significant effects	
	State (Illinois)	Increased odds	Decreased odds	
	Selectivity (Highly/Most)	Decreased odds	Increased odds	
Community	Distance from HS		No significant effects	No significant effects
College	Associate's		Increased odds*	Increased odds*
Four-Year of	Same 4-Yr			Increased odds
Return	Equally Competitive to Less			Increased odds*
	Sector (Public)			No significant effects
	State (Illinois)			Increased odds
	Selectivity (Highly/Most)			Increased odds
	Distance (≤30)			No significant effects

Factors		Reverse Transferring	Returning to a Four-Year	Bachelor's Completion
Demographics	Gender (Male)	Increased odds	No significant effects	Decreased odds
	Race (White)	No significant effects	Decreased odds*	Increased odds*
Financial Aid	Parental Income (Middle)	Increased odds*	No significant effects	No significant effects
	Expected to Work	Increased odds	No significant effects	No significant effects
	Received Financial Aid	increased odds	No significant effects	No significant effects
	Siblings	Increased odds	Decreased odds	No significant effects
Academic	ACT Core	No significant effects	No significant effects	No significant effects
Preparation/ College Readiness	ACT English	Decreased odds	No significant effects	No significant effects
	ACT Math	Decreased odds	No significant effects	No significant effects
	ACT Reading	No significant effects	No significant effects	No significant effects

Factors		Reverse Transferring	Returning to a Four-Year	Bachelor's Completion
Community	Distance from HS		No significant effects	No significant effects
College	Associate's		Increased odds*	Increased odds*

<sup>\*</sup> At lease one dummy variable comparison indicated a statistically significant difference.

	Help Reading	Decreased odds	No significant effects	
	Help Math	Decreased odds	No significant effects	
High School	Region (Chicago)	Decreased odds*	No significant effects	Increased odds*
	Mean ACT	Decreased odds	Increased odds	No significant effects
First Four-Year	Distance from HS (≤30 miles)	Increased odds*	Decreased odds*	
	Sector (Public)	Increased odds	No significant effects	
	State (Illinois)	Increased odds	Decreased odds	
	Selectivity (Highly/Most)	Decreased odds	Increased odds	
Community	Distance from HS		No significant effects	No significant effects
College	Associate's		Increased odds*	Increased odds*
Four-Year of	Same 4-Yr			Increased odds
Return	Equally Competitive to Less			Increased odds*
	Sector (Public)			No significant effects
	State (Illinois)			Increased odds
	Selectivity (Highly/Most)			Increased odds
	Distance (≤30)			No significant effects

Factors		Reverse Transferring	Returning to a Four-Year	Bachelor's Completio
Demographics	Gender (Male)	Increased odds	No significant effects	Decreased odds
	Race (White)	No significant effects	Decreased odds*	Increased odds*
Financial Aid	Parental Income (Middle)	Increased odds*	No significant effects	No significant effects
	Expected to Work	Increased odds	No significant effects	No significant effects
	Received Financial Aid	increased odds	No significant effects	No significant effects
	Siblings	Increased odds	Decreased odds	No significant effects
Academic Preparation/ College Readiness	ACT Core	No significant effects	No significant effects	No significant effects
	ACT English	Decreased odds	No significant effects	No significant effects
	ACT Math	Decreased odds	No significant effects	No significant effects
	ACT Reading	No significant effects	No significant effects	No significant effects
	ACT Science	Increased odds	No significant effects	No significant effects
	Class Rank (Bottom)	Increased odds*	No significant effects	No significant effects
	GPA (≤2.4)	Increased odds*	Decreased odds*	No significant effects
	AP English	No significant effects	No significant effects	No significant effects

Factors		Reverse Transferring	Returning to a Four-Year	Bachelor's Completion
Four-Year of	Same 4-Yr			Increased odds
Return	Equally Competitive to Less			Increased odds*
	Sector (Public)			No significant effects
	State (Illinois)			Increased odds
	Selectivity (Highly/Most)			Increased odds
	Distance (≤30)			No significant effects

<sup>\*</sup> At lease one dummy variable comparison indicated a statistically significant difference.

Sector (Public)	No significant effects	
State (Illinois)	Increased odds	
Selectivity (Highly/Most)	Increased odds	
Distance (≤30)	No significant effects	

### Discussion/Conclusions

- The factors related to academic preparation and financial aid had relatively strong effect sizes in terms of reverse transferring.
- Patterns regarding performance on the ACT and reverse transferring were noteworthy and parallel recent research focusing on similar outcomes.
- The importance of the factors related to financial aid and academic preparation faded as the outcome measures advanced. Institutional characteristics became more important.
- Associate's degree completion was positively and significantly related to both a timely return and a timely completion of a bachelor's degree.

### **Policy Implications**

- Reverse transferring of credit to the community college along with the student
  - Active reverse articulation of credit from initial four-year institution to community college
- Statewide Longitudinal Data Systems
  - Limitations of the current study (achievement during college and financial aid)
  - Early monitoring systems

# Recommendations for Further Investigation

- 1. Reverse Transfers who stay versus those who gravitate towards home.
- 2. Predicting a timely completion of an associate's degree among reverse transfers.
- 3. Adding better information regarding financial aid and academic achievement during college.
- 4. Integrating employment information.

### Questions

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