# Freshmen Who Plan to Transfer (Analysis) 

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## Freshmen who Plan to Transfer

On the 2009 WELS baseline survey of incoming fall 2009 freshmen, thirteen percent indicate some likelihood of transferring prior to graduation. Western administrators are interested in the retention rate of these students, as well as demographic and educational history characteristics. The following is a brief exploratory analysis of these questions.

Q: What is the survey question regarding transfers?
A. All respondents to the 2009 survey where asked "How likely is it that you will transfer from Western to another college or university before you graduate?" Respondents were allowed to select from five responses: "very unlikely", "somewhat unlikely", "uncertain", "somewhat likely", and "very likely." 2357 responses were gathered (out of 2,696 fall, 2009 freshmen). The distribution of responses is:


Q: Are students who report that they are likely to transfer before graduation retained at a lower rate than students who report being unlikely to transfer?
A. Yes. A similar question to that asked on the 2009 survey was asked on the 2007 incoming freshmen survey. For students enrolling as freshmen in the fall of 2007, the response to this question statistically predicted enrollment in the winter of 2008 (second quarter), fall 2008 (second year) and fall 2009 (third year). One difference of the question in 2007 relative to that in 2009 is the 2007 included 7 responses (Extremely, Very, and somewhat of unlikely/likely and uncertain). Actual retention of students who responded with one type of unlikely, the uncertain, or one type of likely was $97 \%, 94 \%$, and $93 \%$ in their
second quarter on campus, $87 \%, 85 \%$, and $74 \%$ in their second year, and $79 \%, 74 \%$ and $65 \%$ in their third year.

Likelihood of Transfer

| Enrolled | Unlikely | Uncertain | Likely | Total |
| :--- | :---: | :---: | :---: | :---: |
| N | 1234 | 328 | 227 | 1789 |
| Second Quarter (winter 2008) | $97 \%$ | $94 \%$ | $93 \%$ | $96 \%$ |
| Second Year (fall 2008) | $87 \%$ | $85 \%$ | $74 \%$ | $85 \%$ |
| Third Year (fall 2009) | $79 \%$ | $74 \%$ | $65 \%$ | $76 \%$ |

From the 2007 survey, plotting retention by quarter and by response to the likelihood of transfer question (likelytransfer, where 1 is extremely unlikely to transfer and 7 is extremely likely to transfer), we see that response to this question is predictive of retention (Figure 1). Slightly above $50 \%$ of students claiming they were very likely to transfer remained on campus in their $7^{\text {th }}$ quarter (Fall, 2009) while about $80 \%$ of students claiming they were extremely unlikely to transfer remained in their $7^{\text {th }}$ quarter.


Figure 1. Survival function of 2007 freshmen who responded to the WELS question about likelihood of transfer before graduation. Peak enrollment data by quarter, where fall 2007 is quarter \#1 through fall 2009 as quarter 7.

One may be concerned that a student's response to their likelihood of transferring is correlated with other observable factors which can more easily measure the likelihood of transferring. For instance, if students with low admissions indices (AI) are more likely to respond that they are likely to transfer, then observing AI would be sufficient to predict retention. A Cox Proportional Hazards model is a multivariate technique that allows one to control for exogenous factors that impact the probability of an event occurring (in our case, dropping out). Using the Cox model to control for demographic and educational observables at the time of admission produces the
following retention graph, and supports claim that the question about likelihood of transfer is predictive of actual transfer, especially transfer after the freshmen. A one-increment increase in response to the likelihood of transfer question (e.g. from "very unlikely=2" to "somewhat unlikely=3") predicts a $13 \%$ ( $t=3.66, p=.0000$, see Appendix Table 6) increased risk of dropout after any given quarter holding observables including AI, ethnicity, age, hours transferred, first generation, resident status, and running start constant.


Figure 2. Cox proportional hazards model controlling for admission index, age, running start, hours transferred, sex, first generation, resident, and ethnicity. See table 12, appendix A for full model.

It should be noted that the above analysis uses only observables at the time of admission. In the presence of other variables observed after coming to campus (e.g. quarterly GPA), the survey question continues to be a strong predictor of retention

It should also be noted that this analysis ignores the stated major preference of students at the time of admission (currently unavailable in our data but obtainable if a full analysis is requested). One can imagine that undecided students are more likely to transfer and perhaps, more likely to claim they have a higher probability of transferring. Exploring this issue could help admissions choose who to accept with an eye to limiting student attrition.

Q: How do they compare to the rest of the cohort in things like financial aid, living on/off campus, first gen, initial major preference, AI score, gender, race, etc.

| A: | Likelihood of Transfer |  |  |  |  |
| :--- | :--- | :---: | :---: | :---: | :---: |
|  |  | Unlikely | Uncertain | Likely | Total |
| N |  | 1229 | 325 | 226 | 1780 |
| Ethnic code - general | Caucasian | $80 \%$ | $72 \%$ | $70 \%$ | $77 \%$ |
| Sex | Female | $63 \%$ | $54 \%$ | $65 \%$ | $62 \%$ |
| First Generation |  | $33 \%$ | $30 \%$ | $35 \%$ | $33 \%$ |


| Residency | Not WA | $7 \%$ | $13 \%$ | $5 \%$ |
| :--- | :---: | :---: | :---: | :---: |

Major preference frequencies are included in table 10 in appendix A .
Q: Was Western the first choice of students who plan to transfer?
A: Not as often. More than one quarter of the 306 respondents who ranked Western as their second or third choice report being likely to transfer, as compared with only $10 \%$ of students ranking Western as their first choice.

Looking at it in the other direction, of students who report being likely to transfer, $71 \%$ list Western as their first choice, as compared with $91 \%$ of students who are unlikely to transfer.

## Q: Why do these students plan to transfer?

The two most common reasons given for the transfer were interest in a major that Western doesn't have and that Western wasn't the student's first choice. Among the 201 students who did rank Western as their first choice but still indicate they are likely to transfer, reasons given include interest in a major not available at Western (41\%), interest in another school (26\%), desire to study abroad (12\%), and desire to be closer to family (10\%). See table 11 in appendix A.

## Appendix A

Tables 1-3. Percent enrolled in second quarter, fall of second year, and fall of third year by response to likelihood of transfer question. Data from WELS Fall 2007 freshmen baseline. Recoded likelihood question from seven to three categories.

Likelihood of transfer (recoded from QFUTUREPLANS1) * Enrolled in second quarter Crosstabulation

|  |  |  | Enrolled in second quarter |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Not enrolled | Enrolled | $\begin{gathered} \text { Not } \\ \text { enrolled } \end{gathered}$ |
| Likelihood of transfer (recoded from QFUTUREPLANS1) | Unlikely (1-3) |  | 34 | 1200 | 1234 |
|  |  | \% within Likelihood of transfer (recoded from QFUTUREPLANS1) | 2.8\% | 97.2\% | 100.0\% |
|  | Uncertain (4) | Count | 21 | 307 | 328 |
|  |  | \% within Likelihood of transfer (recoded from QFUTUREPLANS1) | 6.4\% | 93.6\% | 100.0\% |
|  | Likely (5-7) | Count | 15 | 212 | 227 |
|  |  | \% within Likelihood of transfer (recoded from QFUTUREPLANS1) | 6.6\% | 93.4\% | 100.0\% |
| Total |  | Count | 70 | 1719 | 1789 |
|  |  | \% within Likelihood of transfer (recoded from QFUTUREPLANS1) | 3.9\% | 96.1\% | 100.0\% |

Likelihood of transfer (recoded from QFUTUREPLANS1) * Enrolled in second year Crosstabulation

|  |  |  | Enrolled in second year |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Not enrolled | Enrolled | Not enrolled |
| Likelihood of transfer (recoded from QFUTUREPLANS1) | Unlikely (1-3) | Count | 165 | 1069 | 1234 |
|  |  | \% within Likelihood of transfer (recoded from QFUTUREPLANS1) | 13.4\% | 86.6\% | 100.0\% |
|  | Uncertain (4) | Count | 48 | 280 | 328 |
|  |  | \% within Likelihood of transfer (recoded from QFUTUREPLANS1) | 14.6\% | 85.4\% | 100.0\% |
|  | Likely (5-7) | Count | 59 | 168 | 227 |
|  |  | \% within Likelihood of transfer (recoded from QFUTUREPLANS1) | 26.0\% | 74.0\% | 100.0\% |
| Total |  | Count | 272 | 1517 | 1789 |



Likelihood of transfer (recoded from QFUTUREPLANS1) * Enrolled in third year Crosstabulation

|  |  |  | Enrolled in third year |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Not enrolled | Enrolled | Not enrolled |
| Likelihood of transfer (recoded from QFUTUREPLANS1) | Unlikely (1-3) |  | 261 | 973 | 1234 |
|  |  | \% within Likelihood of transfer (recoded from QFUTUREPLANS1) | 21.2\% | 78.8\% | 100.0\% |
|  | Uncertain (4) | Count | 86 | 242 | 328 |
|  |  | \% within Likelihood of transfer (recoded from QFUTUREPLANS1) | 26.2\% | 73.8\% | 100.0\% |
|  | Likely (5-7) | Count | 80 | 147 | 227 |
|  |  | \% within Likelihood of transfer (recoded from QFUTUREPLANS1) | 35.2\% | 64.8\% | 100.0\% |
| Total |  | Count | 427 | 1362 | 1789 |
|  |  | \% within Likelihood of transfer (recoded from QFUTUREPLANS1) | 23.9\% | 76.1\% | 100.0\% |

Table 4 . Frequency comparison by major interest at time of enrollment. 2007 freshmen.
MAJOR_DEPT_DESC * Likelihood of transfer (recoded from QFUTUREPLANS1) Crosstabulation


|  | \% within <br> MAJOR_DEP <br> T DESC | 73.7\% | 15.8\% | 10.5\% | 100.0\% |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Art | Count | 56 | 20 | 8 | 84 |
|  | \% within <br> MAJOR_DEP <br> T_DESC | 66.7\% | 23.8\% | 9.5\% | 100.0\% |
| Art History | Count | 6 | 0 | 2 | 8 |
|  | \% within <br> MAJOR_DEP <br> T_DESC | 75.0\% | .0\% | 25.0\% | 100.0\% |
| Biology | Count | 47 | 19 | 10 | 76 |
|  | \% within <br> MAJOR_DEP <br> T_DESC | 61.8\% | 25.0\% | 13.2\% | 100.0\% |
| Chemistry | Count | 66 | 25 | 27 | 118 |
|  | \% within <br> MAJOR_DEP <br> T_DESC | 55.9\% | 21.2\% | 22.9\% | 100.0\% |
| College of Business \& Econ | Count | 22 | 3 | 4 | 29 |
|  | \% within <br> MAJOR_DEP <br> T_DESC | 75.9\% | 10.3\% | 13.8\% | 100.0\% |
| Communication | Count | 21 | 10 | 10 | 41 |
|  | \% within <br> MAJOR_DEP <br> T_DESC | 51.2\% | 24.4\% | 24.4\% | 100.0\% |
| Communication Sci \& Disorders | Count | 2 | 2 | 1 | 5 |
|  | \% within <br> MAJOR_DEP <br> T_DESC | 40.0\% | 40.0\% | 20.0\% | 100.0\% |
| Computer Science | Count | 46 | 12 | 4 | 62 |
|  | \% within <br> MAJOR_DEP <br> T_DESC | 74.2\% | 19.4\% | 6.5\% | 100.0\% |
| Dance Program | Count | 4 | 0 | 1 | 5 |
|  | \% within <br> MAJOR_DEP <br> T_DESC | 80.0\% | .0\% | 20.0\% | 100.0\% |
| Decision Sciences | Count | 3 | 0 | 0 | 3 |


|  | \% within <br> MAJOR DEP <br> T_DESC | 100.0\% | .0\% | .0\% | 100.0\% |
| :---: | :---: | :---: | :---: | :---: | :---: |
| East Asian Studies | Count | 2 | 0 | 2 | 4 |
|  | \% within <br> MAJOR_DEP <br> T_DESC | 50.0\% | .0\% | 50.0\% | 100.0\% |
| Economics | Count | 1 | 1 | 1 | 3 |
|  | \% within <br> MAJOR_DEP <br> T_DESC̄ | 33.3\% | 33.3\% | 33.3\% | 100.0\% |
| Elementary Education | Count | 92 | 6 | 4 | 102 |
|  | \% within <br> MAJOR_DEP <br> T_DESC | 90.2\% | 5.9\% | 3.9\% | 100.0\% |
| Engineering Technology | Count | 49 | 26 | 13 | 88 |
|  | \% within <br> MAJOR_DEP <br> T_DESC | 55.7\% | 29.5\% | 14.8\% | 100.0\% |
| English | Count | 41 | 8 | 9 | 58 |
|  | \% within <br> MAJOR_DEP <br> T_DESC | 70.7\% | 13.8\% | 15.5\% | 100.0\% |
| Environmental Studies | Count | 59 | 8 | 4 | 71 |
|  | \% within <br> MAJOR_DEP <br> T_DESC̄ | 83.1\% | 11.3\% | 5.6\% | 100.0\% |
| Fairhaven College | Count | 34 | 9 | 10 | 53 |
|  | \% within <br> MAJOR_DEP <br> T_DESC | 64.2\% | 17.0\% | 18.9\% | 100.0\% |
| Finance, Mrkt \& Decision Sci | Count | 72 | 24 | 16 | 112 |
|  | \% within <br> MAJOR_DEP <br> T_DESC | 64.3\% | 21.4\% | 14.3\% | 100.0\% |
| Geology | Count | 3 | 1 | 1 | 5 |
|  | \% within <br> MAJOR_DEP <br> T_DESC | 60.0\% | 20.0\% | 20.0\% | 100.0\% |


| Health Education | Count |
| :---: | :---: |
|  | \％within <br> MAJOR＿DEP <br> T＿DESC |
| History | Count |
|  | \％within <br> MAJOR＿DEP <br> T＿DESC |
| Human Srves and Rehabilitation | Count |
|  | $\begin{aligned} & \text { \% within } \\ & \text { MAJOR_DEP } \\ & \text { T_DESC } \end{aligned}$ |
| Journalism | Count |
|  | \％within MAJOR＿DEP T＿DESC |
| Liberal Studies | Count |
|  | \％within <br> MAJOR＿DEP <br> T＿DESC |
| Linguistics | Count |
|  | \％within <br> MAJOR＿DEP <br> T＿DESC |
| Management | Count |
|  | \％within <br> MAJOR＿DEP <br> T＿DESC |
| Mathematics | Count |
|  | \％within <br> MAJOR＿DEP <br> T＿DESC |
| Modern and Classical Languages | Count |
|  |  |
|  |  |
|  | \％within <br> MAJOR DEP |
|  |  |
| Music | Count |
|  | \％within <br> MAJOR＿DEP <br> T＿DESC̄ |


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| Philosophy | Count <br> \% within <br> MAJOR_DEP <br> T_DESC | 3 $60.0 \%$ | 0 $.0 \%$ | 2 2 | 100.0\% |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Physical Ed, Health\&Recreatio | Count | 46 | 8 | 7 | 61 |
|  | \% within <br> MAJOR_DEP <br> T_DESC | 75.4\% | 13.1\% | 11.5\% | 100.0\% |
| Physics | Count | 7 | 4 | 1 | 12 |
|  | \% within <br> MAJOR_DEP <br> T_DESC | 58.3\% | 33.3\% | 8.3\% | 100.0\% |
| Political Science | Count | 33 | 15 | 10 | 58 |
|  | \% within <br> MAJOR_DEP <br> T_DESC̄ | 56.9\% | 25.9\% | 17.2\% | 100.0\% |
| Psychology | Count | 83 | 21 | 9 | 113 |
|  | \% within <br> MAJOR_DEP <br> T_DESC | 73.5\% | 18.6\% | 8.0\% | 100.0\% |
| Recreation/Park | Count | 3 | 0 | 1 | 4 |
|  | \% within <br> MAJOR_DEP <br> T_DESC | 75.0\% | .0\% | 25.0\% | 100.0\% |
| Science Education | Count | 1 | 0 | 0 | 1 |
|  | \% within <br> MAJOR_DEP <br> T_DESC | 100.0\% | .0\% | .0\% | 100.0\% |
| Secondary Education | Count | 49 | 12 | 6 | 67 |
|  | \% within <br> MAJOR_DEP <br> T DESC | 73.1\% | 17.9\% | 9.0\% | 100.0\% |
| Sociology | Count | 20 | 1 | 3 | 24 |
|  | \% within <br> MAJOR_DEP <br> T_DESC | 83.3\% | 4.2\% | 12.5\% | 100.0\% |
| Special Education | Count | 7 | 0 | 1 | 8 |



Table 5. Coded responses to why students are likely to transfer.

## Q. 35 Why are you likely to transfer from Western?

|  |  | $\#$ <br> responses |
| :--- | :--- | :---: |
| Code 3 | Major | 115 |
| Code 11 | Different school | 104 |
| Code 2 | New atmosphere/experience | 24 |
| Code 9 | Closer to home/family | 24 |
| Code 4 | Friends/Boyfriend/Girlfriend | 14 |
| Code 7 | Size/bigger or smaller | 12 |
| Code 6 | Money/out of state | 10 |
| Code 13 | Study Abroad | 10 |


| Code 14 | California | 7 |
| :---: | :---: | :---: |
| Code 23 | Not first choice in school | 5 |
| Code 5 | Campus/location | 4 |
| Code 19 | No plans | 4 |
| Code 12 | Religion | 3 |
| Code 16 | Classes | 3 |
| Code 21 | Weather | 3 |
| Code 22 | Too close to home | 3 |
| Code 25 | Bad reputation | 2 |
| Code 1 | Full Sail University | 1 |
| Code 8 | Bad teachers | 1 |
| Code 10 | Scholarship | 1 |
| Code 15 | Competition in major field | 1 |
| Code 17 | For fun | 1 |
| Code 18 | I do not intend to transfer | 1 |
| Code 20 | Don't like it | 1 |
| Code 24 | Classes too full/can't graduate in 4 yrs. | 1 |
| Code 26 | Keeping options open | 1 |
| Code 27 | Better fit | 1 |
| Code 28 | More opportunities | 1 |
| Code 29 | Greek system | 1 |
| Code 30 | No football | 1 |

## Table 6. Cox proportional hazards model

. stcox likelytransfer ai age runstart hrstrans female firstgen resident black hispanic asian, basesurv(s)

$$
\begin{aligned}
& \text { failure _d: dropout } \\
& \text { analysis time _t: end }
\end{aligned}
$$



| _t | Haz. Ratio | Std. Err. | z | $\mathrm{P}>\|\mathrm{z}\|$ | [95\% Conf | Interval] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1ikelytran~r | 1.128812 | . 0373305 | 3.66 | 0.000 | 1.057967 | 1.204402 |
| ai | . 9839932 | . 0034421 | -4.61 | 0.000 | . 97727 | . 9907628 |
| age | 1.189339 | . 1485314 | 1.39 | 0.165 | . 9311139 | 1.519178 |
| runstart | 1.566247 | . 2866221 | 2.45 | 0.014 | 1.094185 | 2.241968 |
| hrstrans | . 9860636 | . 0036389 | -3.80 | 0.000 | . 9789573 | . 9932216 |
| female | 1.153642 | . 1246404 | 1.32 | 0.186 | . 9334832 | 1.425724 |
| firstgen | 1.013836 | . 1111438 | 0.13 | 0.900 | . 8178109 | 1.256847 |
| resident | . 5657719 | . 0987654 | -3.26 | 0.001 | . 4018364 | . 7965874 |
| black | 1.210834 | . 3038353 | 0.76 | 0.446 | . 7404441 | 1.980054 |
| hispanic | . 9984708 | . 2260337 | -0.01 | 0.995 | . 640679 | 1.556074 |
| asian | . 9599916 | . 1639339 | -0.24 | 0.811 | . 6869279 | 1.341602 |

