

## Transfer Student Report for Kapi‘olani Community College Students versus Four-Year Native University of Hawai‘i Students Academic Years 2006-2007 to 2010-2011

The performance of students who transferred from Kapi‘olani Community College (KapCC) to three of the University of Hawai‘i (UH) 4-yr campuses (UH-Mānoa, UH-Hilo, and UH-West Oahu) was compared to the performance of students at the 4-yr institutions who did not transfer from one of the UH community colleges. These comparisons were conducted for each major at the 4-yr institution in which KapCC transfer students enrolled.

### Methodology

Transfer students were identified by using the definition used by the UHCC strategic plan. The computer script used to extract the number of community college transfer students for the UHCC strategic plan was posted on the UH Business Wiki website (<https://www.hawaii.edu/bwiki/pages/viewpage.action?pageId=229485812>). Generally the script extracts students enrolled and home based as of the census date as undergraduates at any of the three 4-yr UH campuses listed above for a particular fall term. The students had to have started at the 4-yr institution that particular fall term or in any previous summer term (e.g., summer 1995.) Transfer students were then identified as the subgroup of students within this group who had been enrolled and home based as of a census date as an undergraduate student at a community college during any term previous to the fall term specified. Transfer students were identified with the community college(s) from which they transferred. One particular transfer student may have transferred from multiple community colleges. Full details may be seen by examining the script on the above referenced wiki webpage. The script also calculated the GPA for each student at the 4-yr institution for the academic year starting with the specified fall term.

Native students were identified by first extracting all new 4-yr students by duplicating the above criteria for new 4-yr students for a particular fall term, but not adding the additional criteria for previous community college enrollment. The previously identified transfer students were then deleted from this group of all 4-yr students. The remaining students were identified as the native students (each being associated with one of the 4-yr institutions and a particular major at the institution.) The GPA for the 4-yr institution for that academic year also was calculated by duplicating the method used for transfer students.

The academic performance of the transfer and native students was analyzed by comparing the GPAs of the two groups using a chi-square ( $\chi^2$ ) statistical test. Following from the UHCC strategic plan measures, GPAs were collapsed into two categories—less than 2.0 or greater than or equal to 2.0. Chi-square tests were conducted for each of the five academic years for each 4-yr institution for both each major and for all majors in which KapCC transfers enrolled at the 4-yr institution. The native student groups of all majors only included students who were enrolled in majors that were included in the majors of the transfer students (e.g., Chemistry majors were excluded from the native student group if there were no chemistry majors in the transfer group.) Groups were considered significantly different if p values were less than either 0.05 or 0.01.

### Results

Due to the number of cells with expected counts less than 5, asymptotic chi-square tests could not be used. All chi-square tests used exact p values. Table 1 shows the results of all of the chi-square comparisons. GPAs were cumulative for the academic year indicated. Green shading in cells indicates that a significantly higher percentage of community college transfers earned GPAs greater than or equal to 2.0 at the 4-yr institution as compared to native 4-yr students, yellow shading indicates no significant difference, and red shading indicates that a lower percentage of transfer students earned at least a 2.0 GPA as compared to the native 4-yr students. Grey shading indicates that chi-square values could not be computed due to the number of cells with zero cases.

There were no significant differences between the two students groups for any of the 4-yr institutions for any of the five academic years when all majors were combined.

The results for individual majors were overwhelmingly not significant (yellow cells.) There also were numerous instances where chi-square values could not be computed due to the number of cells with zero cases (grey cells.) The only significant differences were for three majors at UH-Mānoa. Transfer students from KapCC had a significantly lower percentage of GPAs greater than or equal to 2.0 for Marine Biology in the 2008-2009 academic year and History and Political Science in the 2009-2010 academic year.

### Conclusions

The lack of any significant differences between the two students groups when all majors were combined is consistent with the null hypothesis that there were no differences between the two student groups. The null hypothesis that there were no differences between the groups *could* be true. This should not be interpreted to mean there *were* no differences between the groups.

The results for individual majors were more problematic. When all of the transfer students were distributed to the individual majors, the number of students in any particular major generally was very low (less than 25.) For example, there were six or fewer transfer students in the three instances where there were significant differences between the groups. In reality, these differences are likely to be Type I errors rather than any real differences. Successful GPA percentages in these instances varied from 50% or 60% (and even 0%) to 100% from one academic year to the next. The low student numbers within a major make the data very unstable over time and the extreme variability could easily produce significant difference even with p values less than 0.05. Similarly the non-significant values should not be interpreted to mean that there were no differences or even probably no differences between the groups. The small numbers of students in each major make any statistical testing very insensitive. A statistical analysis of major or program data should not be conducted for such low numbers. Even transfers to General Arts and Sciences at UH-Mānoa were generally less than 60 students. All of the General Arts and Sciences comparisons were not significant, and one should be very cautious about interpreting the lack of a significant difference. The null hypothesis can never be proved.

The most reliable results in Table 1 is the lack of any significant differences between transfer and native students at UH-Mānoa when all majors were combined. At best, one could say that KapCC students probably don't do any worse or better than native UH-Mānoa students in their first academic year at UH-Mānoa.

<b>Table 1. Percentage of Students Earning a GPA Greater Than or Equal to 2.00 at the Four-Year UH College each Academic Year: Kapi'olani Community College Transfer Students versus Native Four-Year Students</b>										
	<b>AY 2006 – 2007</b>		<b>AY 2007 – 2008</b>		<b>AY 2008 – 2009</b>		<b>AY 2009 – 2010</b>		<b>AY 2010 – 2011</b>	
	<b>KapCC to UH-Mānoa Transfers</b>	<b>UH-Mānoa Natives</b>	<b>KapCC to UH-Mānoa Transfers</b>	<b>UH-Mānoa Natives</b>	<b>KapCC to UH-Mānoa Transfers</b>	<b>UH-Mānoa Natives</b>	<b>KapCC to UH-Mānoa Transfers</b>	<b>UH-Mānoa Natives</b>	<b>KapCC to UH-Mānoa Transfers</b>	<b>UH-Mānoa Natives</b>
<b>UH-Mānoa</b>	84.69% (271 / 320)	83.85% (2742 / 3270)	86.08% (303 / 352)	83.72% (2483 / 2966)	85.67% (287 / 335)	85.45% (2637 / 3086)	83.33% (295 / 354)	82.12% (2696 / 3283)	84.05% (311 / 370)	84.46% (2717 / 3217)
<b>All Majors</b>	$\chi^2 = 0.1504, p \geq 0.7500$ no significant difference		$\chi^2 = 1.3063, p \geq 0.2821$ no significant difference		$\chi^2 = 0.0119, p \geq 0.9352$ no significant difference		$\chi^2 = 0.3220, p \geq 0.6088$ no significant difference		$\chi^2 = 0.0411, p \geq 0.8797$ no significant difference	
<b>ACC</b>	100.00% (7 / 7)	93.75% (30 / 32)	100.00% (4 / 4)	94.44% (17 / 18)	100.00% (5 / 5)	100.00% (20 / 20)	85.71% (6 / 7)	94.44% (17 / 18)	90.00% (9 / 10)	100.00% (25 / 25)
	$\chi^2 = 0.4611, p \geq 1.0000$ no significant difference		$\chi^2 = 0.2328, p \geq 1.0000$ no significant difference		$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2 = 0.5219, p \geq 1.0000$ no significant difference		$\chi^2 = 2.5735, p \geq 0.2857$ no significant difference	

AMST									100.00% (1 / 1)	100.00% (2 / 2)
									$\chi^2$ could not be computed. Zero cases with GPA < 2.00	
ANSC	50.00% (1 / 1)	88.24% (15 / 17)							100.00% (2 / 2)	92.86% (26 / 28)
	$\chi^2 = 1.9675, p \geq 0.2982$ no significant difference									
ANTH	80.00% (4 / 5)	75.00% (27 / 36)	100.00% (4 / 4)	83.33% (20 / 24)			100.00% (4 / 4)	82.76% (24 / 29)	100.00% (1 / 1)	83.33% (20 / 24)
	$\chi^2 = 0.0595, p \geq 1.0000$ no significant difference		$\chi^2 = 0.7778, p \geq 0.6048$ no significant difference					$\chi^2 = 0.8128, p \geq 0.5997$ no significant difference	$\chi^2 = 0.1984, p \geq 1.0000$ no significant difference	
APD	100.00% (2 / 2)	70.59% (24 / 34)	100.00% (7 / 7)	86.49% (32 / 37)	100.00% (3 / 3)	88.46% (23 / 26)	50.00% (1 / 2)	87.88% (29 / 33)	100.00% (3 / 3)	95.00% (19 / 20)
	$\chi^2 = 0.8145, p \geq 0.5873$ no significant difference		$\chi^2 = 1.0672, p \geq 0.5743$ no significant difference		$\chi^2 = 0.3861, p \geq 1.0000$ no significant difference		$\chi^2 = 2.2096, p \geq 0.2689$ no significant difference		$\chi^2 = 0.1568, p \geq 1.0000$ no significant difference	
ARCH					100.00% (2 / 2)	86.79% (46 / 53)	75.00% (3 / 4)	81.13% (43 / 53)	75.00% (3 / 4)	74.55% (41 / 55)
					$\chi^2 = 0.3027, p \geq 1.0000$ no significant difference		$\chi^2 = 0.0898, p \geq 1.0000$ no significant difference		$\chi^2 = 0.0004, p \geq 1.0000$ no significant difference	
ART	88.24% (15 / 17)	85.00% (85 / 100)	94.44% (17 / 18)	87.63% (85 / 97)	81.25% (13 / 16)	78.95% (60 / 76)	84.62% (11 / 13)	88.30% (83 / 94)	83.33% (15 / 18)	86.42% (70 / 81)
	$\chi^2 = 0.8145, p \geq 0.5873$ no significant difference		$\chi^2 = 0.7034, p \geq 0.4785$ no significant difference		$\chi^2 = 0.0428, p \geq 1.0000$ no significant difference		$\chi^2 = 0.1451, p \geq 1.0000$ no significant difference		$\chi^2 = 0.1155, p \geq 1.0000$ no significant difference	
ASAN	75.00% (3 / 4)	88.89% (16 / 18)	100.00% (4 / 4)	94.44% (17 / 18)	75.00% (3 / 4)	80.00% (12 / 15)	50.00% (1 / 2)	85.71% (12 / 14)	100.00% (3 / 3)	80.00% (16 / 20)
	$\chi^2 = 0.5361, p \geq 1.0000$ no significant difference		$\chi^2 = 0.2328, p \geq 1.0000$ no significant difference		$\chi^2 = 0.0475, p \geq 1.0000$ no significant difference		$\chi^2 = 1.4652, p \geq 0.3500$ no significant difference		$\chi^2 = 0.7263, p \geq 0.6138$ no significant difference	
BENG									100.00% (1 / 1)	80.00% (4 / 5)
									$\chi^2 = 0.2400, p \geq 1.0000$ no significant difference	
BIOL	68.75% (11 / 16)	84.35% (124 / 147)	87.50% (7 / 8)	83.33% (115 / 138)	87.50% (7 / 8)	85.71% (114 / 133)	66.67% (6 / 9)	80.77% (126 / 156)	76.92% (10 / 13)	81.25% (169 / 208)
	$\chi^2 = 2.4694, p \geq 0.1557$ no significant difference		$\chi^2 = 0.0956, p \geq 1.0000$ no significant difference		$\chi^2 = 0.0198, p \geq 1.0000$ no significant difference		$\chi^2 = 1.0577, p \geq 0.3852$ no significant difference		$\chi^2 = 0.1488, p \geq 0.7165$ no significant difference	
BOT	100.00% (1 / 1)	62.50% (5 / 8)			100.00% (1 / 1)	90.00% (9 / 10)				
	$\chi^2 = 0.5625, p \geq 1.0000$ no significant difference					$\chi^2 = 0.1100, p \geq 1.0000$ no significant difference				

<b>CE</b>	80.00% (4 / 5)	86.08% (68 / 79)	100.00% (2 / 2)	88.89% (64 / 72)	100.00% (5 / 5)	82.72% (67 / 81)	100.00% (3 / 3)	88.89% (72 / 81)	100.00% (3 / 3)	84.93% (62 / 73)
	$\chi^2 = 0.1418, p \geq 1.0000$ no significant difference		$\chi^2 = 0.2492, p \geq 1.0000$ no significant difference		$\chi^2 = 1.0322, p \geq 0.5864$ no significant difference		$\chi^2 = 0.3733, p \geq 1.0000$ no significant difference		$\chi^2 = 0.5286, p \geq 1.0000$ no significant difference	
<b>CHEM</b>			66.67% (4 / 6)	81.25% (26 / 32)	100.00% (4 / 4)	80.77% (21 / 26)	100.00% (2 / 2)	80.56% (29 / 36)	71.43% (5 / 7)	78.05% (32 / 41)
			$\chi^2 = 0.6465, p \geq 0.5870$ no significant difference		$\chi^2 = 0.9231, p \geq 0.5804$ no significant difference		$\chi^2 = 0.4767, p \geq 1.0000$ no significant difference		$\chi^2 = 0.1483, p \geq 1.0000$ no significant difference	
<b>CHN</b>			100.00% (2 / 2)	81.82% (9 / 11)	100.00% (3 / 3)	85.71% (12 / 14)	100.00% (1 / 1)	84.62% (11 / 13)	100.00% (2 / 2)	84.62% (11 / 13)
			$\chi^2 = 0.4298, p \geq 1.0000$ no significant difference		$\chi^2 = 0.4857, p \geq 1.0000$ no significant difference		$\chi^2 = 0.1795, p \geq 1.0000$ no significant difference		$\chi^2 = 0.3550, p \geq 1.0000$ no significant difference	
<b>COM</b>	100.00% (2 / 2)	92.31% (24 / 26)	100.00% (10 / 10)	100.00% (12 / 12)	100.00% (2 / 2)	87.50% (14 / 16)	66.67% (2 / 3)	100.00% (19 / 19)	100.00% (7 / 7)	83.33% (10 / 12)
	$\chi^2 = 0.1657, p \geq 1.0000$ no significant difference		$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2 = 0.2813, p \geq 1.0000$ no significant difference		$\chi^2 = 6.6349, p \geq 0.1364$ no significant difference		$\chi^2 = 1.3039, p \geq 0.5088$ no significant difference	
<b>CSCI</b>	100.00% (1 / 1)	84.62% (66 / 78)	100.00% (2 / 2)	80.00% (52 / 65)	100.00% (1 / 1)	77.78% (42 / 54)	50.00% (1 / 2)	80.77% (42 / 52)	100.00% (3 / 3)	65.08% (41 / 63)
	$\chi^2 = 0.1814, p \geq 1.0000$ no significant difference		$\chi^2 = 0.4963, p \geq 1.0000$ no significant difference		$\chi^2 = 0.2842, p \geq 1.0000$ no significant difference		$\chi^2 = 1.1241, p \geq 0.3690$ no significant difference		$\chi^2 = 1.5714, p \geq 0.5452$ no significant difference	
<b>CSD</b>							50.00% (1 / 2)	83.33% (5 / 6)		
							$\chi^2 = 0.8889, p \geq 1.0000$ no significant difference			
<b>DANC</b>	100.00% (1 / 1)	100.00% (6 / 6)	100.00% (4 / 4)	100.00% (8 / 8)			100.00% (1 / 1)	71.43% (5 / 7)		
	$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2$ could not be computed. Zero cases with GPA < 2.00				$\chi^2 = 0.3810, p \geq 1.0000$ no significant difference			
<b>DH</b>	100.00% (1 / 1)	100.00% (8 / 8)								
	$\chi^2$ could not be computed. Zero cases with GPA < 2.00									
<b>EBOT</b>	0.00% (0 / 1)	66.67% (2 / 3)							100.00% (2 / 2)	100.00% (3 / 3)
	$\chi^2 = 1.3333, p \geq 1.0000$ no significant difference								$\chi^2$ could not be computed. Zero cases with GPA < 2.00	
<b>ECON</b>	66.67% (2 / 3)	87.10% (87.10% (27 / 31))	85.71% (6 / 7)	84.00% (21 / 25)	60.00% (3 / 5)	89.74% (35 / 39)	100.00% (1 / 1)	75.76% (25 / 33)	100.00% (2 / 2)	84.38% (27 / 32)
	$\chi^2 = 0.9102, p \geq 0.3894$ no significant difference		$\chi^2 = 0.0122, p \geq 1.0000$ no significant difference		$\chi^2 = 3.3292, p \geq 0.1300$ no significant difference		$\chi^2 = 0.3170, p \geq 1.0000$ no significant difference		$\chi^2 = 0.3664, p \geq 1.0000$ no significant difference	

<b>EDEL</b>	100.00% (3 / 3)	100.00% (37 / 37)	100.00% (2 / 2)	92.75% (64 / 69)	100.00% (2 / 2)	94.74% (18 / 19)	100.00% (1 / 1)	68.00% (17 / 25)	100.00% (3 / 3)	100.00% (37 / 37)
	$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2 = 0.1559, p \geq 1.0000$ no significant difference		$\chi^2 = 0.1105, p \geq 1.0000$ no significant difference		$\chi^2 = 0.4622, p \geq 1.0000$ no significant difference		$\chi^2$ could not be computed. Zero cases with GPA < 2.00	
<b>EE</b>	100.00% (1 / 1)	74.39% (61 / 82)	100.00% (4 / 4)	78.95% (45 / 57)	100.00% (2 / 2)	88.41% (61 / 69)	100.00% (5 / 5)	79.10% (53 / 67)	80.00% (4 / 5)	92.31% (48 / 52)
	$\chi^2 = 0.9102, p \geq 0.3894$ no significant difference		$\chi^2 = 1.0483, p \geq 0.5763$ no significant difference		$\chi^2 = 0.2613, p \geq 1.0000$ no significant difference		$\chi^2 = 1.2970, p \geq .5755$ no significant difference		$\chi^2 = 0.8634, p \geq 0.3793$ no significant difference	
<b>EESP</b>					100.00% (2 / 2)	100.00% (10 / 10)	100.00% (1 / 1)	91.67% (11 / 12)		
					$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2 = 0.0903, p \geq 1.0000$ no significant difference			
<b>ENG</b>	87.50% (7 / 8)	85.71% (48 / 56)	100.00% (5 / 5)	85.45% (47 / 55)	100.00% (8 / 8)	89.13% (41 / 46)	88.89% (8 / 9)	85.19% (46 / 54)	75.00% (6 / 8)	86.00% (43 / 50)
	$\chi^2 = 0.0185, p \geq 1.0000$ no significant difference		$\chi^2 = 0.8392, p \geq 0.6034$ no significant difference		$\chi^2 = 0.9583, p \geq 0.5872$ no significant difference		$\chi^2 = 0.0864, p \geq 1.0000$ no significant difference		$\chi^2 = 0.6366, p \geq 0.5967$ no significant difference	
<b>ENTR</b>									100.00% (1 / 1)	100.00% (2 / 2)
									$\chi^2$ could not be computed. Zero cases with GPA < 2.00	
<b>ES</b>			100.00% (1 / 1)	66.67% (2 / 3)			100.00% (1 / 1)	100.00% (2 / 2)	100.00% (1 / 1)	80.00% (4 / 5)
				$\chi^2 = 0.4444, p \geq 1.0000$ no significant difference				$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2 = 0.2400, p \geq 1.0000$ no significant difference
<b>FAMR</b>	100.00% (1 / 1)	92.86% (13 / 14)	100.00% (3 / 3)	91.67% (11 / 12)	0.00% (0 / 1)	100.00% (13 / 13)	100.00% (5 / 5)	100.00% (14 / 14)	100.00% (3 / 3)	92.00% (23 / 25)
	$\chi^2 = 0.0765, p \geq 1.0000$ no significant difference		$\chi^2 = 0.2679, p \geq 1.0000$ no significant difference		$\chi^2 = 14.0000, p \geq 0.0714$ no significant difference		$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2 = 0.2585, p \geq 1.0000$ no significant difference	
<b>FIN</b>	100.00% (1 / 1)	100.00% (16 / 16)	100.00% (2 / 2)	83.33% (10 / 12)	100.00% (1 / 1)	100.00% (12 / 12)			100.00% (6 / 6)	100.00% (13 / 13)
	$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2 = 0.3889, p \geq 1.0000$ no significant difference		$\chi^2$ could not be computed. Zero cases with GPA < 2.00				$\chi^2$ could not be computed. Zero cases with GPA < 2.00	
<b>FR</b>							100.00% (1 / 1)	85.71% (6 / 7)	100.00% (1 / 1)	100.00% (6 / 6)
							$\chi^2 = 0.1633, p \geq 1.0000$ no significant difference		$\chi^2$ could not be computed. Zero cases with GPA < 2.00	
<b>FSHN</b>	100.00% (2 / 2)	93.10% (27 / 29)	100.00% (1 / 1)	90.48% (19 / 21)			100.00% (1 / 1)	95.83% (23 / 24)	100.00% (5 / 5)	95.65% (22 / 23)
	$\chi^2 = 0.1474, p \geq 1.0000$ no significant difference		$\chi^2 = 0.1048, p \geq 1.0000$ no significant difference				$\chi^2 = 0.0434, p \geq 1.0000$ no significant difference		$\chi^2 = 0.2254, p \geq 1.0000$ no significant difference	

GEAS	77.65% (66 / 85)	81.70% (567 / 694)	81.16% (56 / 69)	83.06% (554 / 667)	86.44% (51 / 59)	85.00% (578 / 680)	85.71% (54 / 63)	78.99% (545 / 690)	83.72% (36 / 43)	82.44% (554 / 672)
	$\chi^2 = 0.8169, p \geq 0.3775$ no significant difference		$\chi^2 = 0.1589, p \geq 0.7367$ no significant difference		$\chi^2 = 0.0889, p \geq 0.8512$ no significant difference		$\chi^2 = 1.6066, p \geq 0.2537$ no significant difference		$\chi^2 = 0.0459, p \geq 0.8433$ no significant difference	
GENB	100.00% (5 / 5)	81.82% (27 / 33)	100.00% (2 / 2)	96.15% (25 / 26)	100.00% (11 / 11)	100.00% (23 / 23)	93.33% (14 / 15)	96.30% (26 / 27)	87.50% (7 / 8)	100.00% (8 / 8)
	$\chi^2 = 1.0795, p \geq 0.5701$ no significant difference		$\chi^2 = 0.0798, p \geq 1.0000$ no significant difference		$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2 = 0.1867, p \geq 1.0000$ no significant difference		$\chi^2 = 1.0667, p \geq 1.0000$ no significant difference	
GEOG	100.00% (1 / 1)	50.00% (1 / 2)	100.00% (1 / 1)	100.00% (6 / 6)	100.00% (1 / 1)	100.00% (7 / 7)	100.00% (3 / 3)	83.33% (5 / 6)		
	$\chi^2 = 0.7500, p \geq 1.0000$ no significant difference		$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2 = 0.5625, p \geq 1.0000$ no significant difference			
GES	100.00% (1 / 1)	100.00% (8 / 8)			100.00% (2 / 2)	85.71% (12 / 14)			100.00% (1 / 1)	100.00% (21 / 21)
	$\chi^2$ could not be computed. Zero cases with GPA < 2.00				$\chi^2 = 0.3265, p \geq 1.0000$ no significant difference				$\chi^2$ could not be computed. Zero cases with GPA < 2.00	
GG					0.00% (0 / 1)	85.71% (6 / 7)			100.00% (1 / 1)	100.00% (8 / 8)
					$\chi^2 = 3.4286, p \geq 0.2500$ no significant difference				$\chi^2$ could not be computed. Zero cases with GPA < 2.00	
HAW	100.00% (1 / 1)	75.00% (9 / 12)	80.00% (4 / 5)	90.91% (10 / 11)			100.00% (4 / 4)	80.00% (8 / 10)	50.00% (1 / 2)	100.00% (6 / 6)
	$\chi^2 = 0.3250, p \geq 1.0000$ no significant difference		$\chi^2 = 0.3740, p \geq 1.0000$ no significant difference				$\chi^2 = 0.9333, p \geq 0.5604$ no significant difference		$\chi^2 = 3.4286, p \geq 0.2500$ no significant difference	
HIST	50.00% (1 / 2)	86.67% (26 / 30)	100.00% (4 / 4)	84.00% (21 / 25)	100.00% (4 / 4)	86.49% (32 / 37)	50.00% (3 / 6)	91.30% (21 / 23)	83.33% (5 / 6)	88.57% (31 / 35)
	$\chi^2 = 1.9121, p \geq 0.2923$ no significant difference		$\chi^2 = 0.7424, p \geq 0.6126$ no significant difference		$\chi^2 = 0.6156, p \geq 1.0000$ no significant difference		$\chi^2 = 5.6897, p < 0.05$ CC students performed worse.		$\chi^2 = 0.1312, p \geq 1.0000$ no significant difference	
HRM									100.00% (2 / 2)	(0 / 0)
									$\chi^2$ could not be computed. No cases with native students	
HWST	66.67% (2 / 3)	90.00% (18 / 20)			100.00% (2 / 2)	92.31% (12 / 13)	66.67% (2 / 3)	88.00% (22 / 25)	100.00% (2 / 2)	85.19% (23 / 27)
	$\chi^2 = 1.2522, p \geq 0.3563$ no significant difference				$\chi^2 = 0.1648, p \geq 1.0000$ no significant difference		$\chi^2 = 0.9956, p \geq 0.3822$ no significant difference		$\chi^2 = 0.3437, p \geq 1.0000$ no significant difference	
ICS	100.00% (2 / 2)	70.00% (7 / 10)	100.00% (1 / 1)	14.29% (1 / 7)	100.00% (2 / 2)	66.67% (10 / 15)			0.00% (0 / 2)	85.71% (6 / 7)
	$\chi^2 = 0.8000, p \geq 1.0000$ no significant difference		$\chi^2 = 3.4286, p \geq 0.2500$ no significant difference		$\chi^2 = 0.9444, p \geq 0.5588$ no significant difference				$\chi^2 = 5.1429, p \geq 0.0833$ no significant difference	

IS	100.00% (1 / 1)	100.00% (15 / 15)			100.00% (1 / 1)	85.71% (6 / 7)				
	$\chi^2$ could not be computed. Zero cases with GPA < 2.00				$\chi^2 = 0.1633, p \geq 1.0000$ no significant difference					
JOUR	100.00% (1 / 1)	77.78% (7 / 9)	100.00% (4 / 4)	100.00% (3 / 3)	100.00% (3 / 3)	100.00% (11 / 11)	100.00% (3 / 3)	80.00% (4 / 5)	100.00% (1 / 1)	62.50% (5 / 8)
	$\chi^2 = 0.2778, p \geq 1.0000$ no significant difference		$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2 = 0.6857, p \geq 1.0000$ no significant difference		$\chi^2 = 0.5625, p \geq 1.0000$ no significant difference	
JPN	100.00% (1 / 1)	86.44% (51 / 59)	100.00% (6 / 6)	94.00% (47 / 50)	100.00% (5 / 5)	83.72% (36 / 43)	80.00% (4 / 5)	95.65% (44 / 46)	100.00% (2 / 2)	85.71% (42 / 49)
	$\chi^2 = 0.1565, p \geq 1.0000$ no significant difference		$\chi^2 = 0.3804, p \geq 1.0000$ no significant difference		$\chi^2 = 0.9529, p \geq 0.5860$ no significant difference		$\chi^2 = 1.9957, p \geq 0.2711$ no significant difference		$\chi^2 = 0.3312, p \geq 1.0000$ no significant difference	
KLS1	100.00% (1 / 1)	100.00% (9 / 9)								
	$\chi^2$ could not be computed. Zero cases with GPA < 2.00									
KOR			100.00% (1 / 1)	100.00% (6 / 6)	0.00% (0 / 1)	83.33% (5 / 6)	100.00% (1 / 1)	75.00% (3 / 4)		
			$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2 = 2.9167, p \geq 0.2857$ no significant difference		$\chi^2 = 0.3125, p \geq 1.0000$ no significant difference			
KRS1							100.00% (2 / 2)	66.67% (2 / 3)	100.00% (1 / 1)	100.00% (5 / 5)
							$\chi^2 = 0.8333, p \geq 1.0000$ no significant difference		$\chi^2$ could not be computed. Zero cases with GPA < 2.00	
MATH									100.00% (1 / 1)	100.00% (5 / 5)
									$\chi^2$ could not be computed. Zero cases with GPA < 2.00	
MB	66.67% (2 / 3)	83.17% (84 / 101)	66.67% (2 / 3)	80.56% (87 / 108)	0.00% (0 / 3)	80.87% (93 / 115)	100.00% (2 / 2)	79.81% (83 / 104)	100.00% (3 / 3)	85.91% (128 / 149)
	$\chi^2 = 0.5543, p \geq 1.0000$ no significant difference		$\chi^2 = 0.3543, p \geq 1.0000$ no significant difference		$\chi^2 = 11.4511, p < 0.01$ CC students performed worse.		$\chi^2 = 0.5036, p \geq 1.0000$ no significant difference		$\chi^2 = 0.4906, p \geq 1.0000$ no significant difference	
ME	100.00% (2 / 2)	83.33% (45 / 54)	75.00% (3 / 4)	84.48% (49 / 58)	80.00% (4 / 5)	82.76% (48 / 58)	100.00% (8 / 8)	85.00% (68 / 80)	66.67% (4 / 6)	83.95% (68 / 81)
	$\chi^2 = 0.3972, p \geq 1.0000$ no significant difference		$\chi^2 = 0.2487, p \geq 1.0000$ no significant difference		$\chi^2 = 0.0243, p \geq 1.0000$ no significant difference		$\chi^2 = 1.3895, p \geq 0.3674$ no significant difference		$\chi^2 = 1.1695, p \geq 0.5844$ no significant difference	
MET	100.00% (1 / 1)	72.73% (8 / 11)					100.00% (1 / 1)	100.00% (7 / 7)		
	$\chi^2 = 0.3636, p \geq 1.0000$ no significant difference						$\chi^2$ could not be computed. Zero cases with GPA < 2.00			

<b>MGT</b>							0.00% (0 / 1)	75.00% (3 / 4)	100.00% (2 / 2)	100.00% (3 / 3)
							$\chi^2 = 1.8750, p \geq 0.4000$ no significant difference	$\chi^2$ could not be computed. Zero cases with GPA < 2.00		
<b>MICR</b>	0.00% (0 / 1)	80.00% (12 / 15)	100.00% (1 / 1)	92.31% (12 / 13)	50.00% (1 / 2)	86.67% (13 / 15)	100.00% (1 / 1)	92.31% (12 / 13)	100.00% (1 / 1)	84.00% (21 / 25)
	$\chi^2 = 3.2000, p \geq 0.2500$ no significant difference		$\chi^2 = 0.0828, p \geq 1.0000$ no significant difference		$\chi^2 = 1.6325, p \geq 0.3309$ no significant difference		$\chi^2 = 0.0828, p \geq 1.0000$ no significant difference		$\chi^2 = 0.1891, p \geq 1.0000$ no significant difference	
<b>MKT</b>									100.00% (4 / 4)	100.00% (12 / 12)
							$\chi^2$ could not be computed. Zero cases with GPA < 2.00			
<b>MUS</b>	100.00% (2 / 2)	87.50% (7 / 8)	100.00% (1 / 1)	84.62% (11 / 13)					100.00% (1 / 1)	100.00% (17 / 17)
	$\chi^2 = 0.2778, p \geq 1.0000$ no significant difference		$\chi^2 = 0.1795, p \geq 1.0000$ no significant difference		$\chi^2$ could not be computed. Zero cases with GPA < 2.00					
<b>NREM</b>							100.00% (1 / 1)	100.00% (5 / 5)	100.00% (3 / 3)	83.33% (5 / 6)
							$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2 = 0.5625, p \geq 1.0000$ no significant difference	
<b>NURP</b>	100.00% (1 / 1)	100.00% (2 / 2)	100.00% (1 / 1)	100.00% (1 / 1)	100.00% (1 / 1)	100.00% (1 / 1)	100.00% (3 / 3)	100.00% (2 / 2)		
	$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2$ could not be computed. Zero cases with GPA < 2.00			
<b>NURS</b>	100.00% (8 / 8)	100.00% (34 / 34)	100.00% (2 / 2)	100.00% (40 / 40)	100.00% (5 / 5)	100.00% (31 / 31)	100.00% (4 / 4)	100.00% (26 / 26)	100.00% (6 / 6)	100.00% (38 / 38)
	$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2$ could not be computed. Zero cases with GPA < 2.00	
<b>PBUS</b>	87.50% (28 / 32)	80.15% (319 / 398)	75.76% (25 / 33)	79.09% (261 / 330)	87.80% (36 / 41)	83.46% (323 / 387)	65.63% (21 / 32)	78.09% (303 / 388)	75.00% (21 / 28)	85.28% (278 / 326)
	$\chi^2 = 1.0270, p \geq 0.3631$ no significant difference		$\chi^2 = 0.1995, p \geq 0.8241$ no significant difference		$\chi^2 = 0.5169, p \geq 0.5176$ no significant difference		$\chi^2 = 2.6061, p \geq 0.1246$ no significant difference		$\chi^2 = 2.0749, p \geq 0.1714$ no significant difference	
<b>PEB</b>							100.00% (1 / 1)	100.00% (1 / 1)		
							$\chi^2$ could not be computed. Zero cases with GPA < 2.00			
<b>PEPS</b>					100.00% (1 / 1)	100.00% (1 / 1)				
					$\chi^2$ could not be computed. Zero cases with GPA < 2.00					

PHIL	100.00% (1 / 1)	90.00% (9 / 10)	100.00% (3 / 3)	80.00% (8 / 10)					100.00% (2 / 2)	66.67% (6 / 9)
	$\chi^2 = 0.1100, p \geq 1.0000$ no significant difference		$\chi^2 = 0.7091, p \geq 1.0000$ no significant difference						$\chi^2 = 0.9167, p \geq 0.5636$ no significant difference	
PHLL									100.00% (1 / 1)	100.00% (3 / 3)
									$\chi^2$ could not be computed. Zero cases with GPA < 2.00	
PHYS	100.00% (1 / 1)	69.23% (9 / 13)			0.00% (0 / 1)	88.89% (8 / 9)	100.00% (1 / 1)	66.67% (10 / 15)	100.00% (4 / 4)	87.50% (14 / 16)
	$\chi^2 = 0.4308, p \geq 1.0000$ no significant difference				$\chi^2 = 4.4444, p \geq 0.2000$ no significant difference		$\chi^2 = 0.4848, p \geq 1.0000$ no significant difference		$\chi^2 = 0.5556, p \geq 1.0000$ no significant difference	
PKLS	100.00% (1 / 1)	80.00% (48 / 60)	80.00% (4 / 5)	82.61% (57 / 69)	100.00% (4 / 4)	82.35% (56 / 68)	88.89% (8 / 9)	80.25% (65 / 81)	100.00% (8 / 8)	85.23% (75 / 88)
	$\chi^2 = 0.2490, p \geq 1.0000$ no significant difference		$\chi^2 = 0.0219, p \geq 1.0000$ no significant difference		$\chi^2 = 0.8471, p \geq 0.6009$ no significant difference		$\chi^2 = 0.3948, p \geq 0.6862$ no significant difference		$\chi^2 = 1.3669, p \geq 0.3709$ no significant difference	
PMAT			100.00% (1 / 1)	76.47% (13 / 17)	0.00% (0 / 1)	90.00% (9 / 10)	100.00% (1 / 1)	76.47% (13 / 17)	100.00% (1 / 1)	60.00% (9 / 15)
			$\chi^2 = 0.3025, p \geq 1.0000$ no significant difference		$\chi^2 = 4.9500, p \geq 0.1818$ no significant difference		$\chi^2 = 0.3025, p \geq 1.0000$ no significant difference		$\chi^2 = 0.6400, p \geq 1.0000$ no significant difference	
PMED	100.00% (4 / 4)	86.81% (79 / 91)	66.67% (2 / 3)	81.82% (81 / 99)	50.00% (1 / 2)	93.46% (100 / 107)	100.00% (3 / 3)	83.33% (65 / 78)		
	$\chi^2 = 0.6037, p \geq 0.6537$ no significant difference		$\chi^2 = 0.4410, p \geq 1.0000$ no significant difference		$\chi^2 = 5.4521, p \geq 0.1420$ no significant difference		$\chi^2 = 0.5956, p \geq 1.0000$ no significant difference			
PMT	100.00% (2 / 2)	90.00% (9 / 10)			66.67% (2 / 3)	84.62% (11 / 13)				
	$\chi^2 = 0.2182, p \geq 1.0000$ no significant difference				$\chi^2 = 0.5155, p \geq 1.0000$ no significant difference					
PNUR	71.43% (5 / 7)	86.32% (82 / 95)	73.68% (14 / 19)	84.62% (66 / 78)	93.33% (14 / 15)	88.37% (76 / 86)	100.00% (7 / 7)	85.71% (90 / 105)	84.62% (11 / 13)	85.19% (92 / 108)
	$\chi^2 = 1.1520, p \geq 0.5898$ no significant difference		$\chi^2 = 1.2630, p \geq 0.3136$ no significant difference		$\chi^2 = 0.3239, p \geq 0.6962$ no significant difference		$\chi^2 = 1.1546, p \geq 0.5909$ no significant difference		$\chi^2 = 0.0030, p \geq 1.0000$ no significant difference	
POLS	100.00% (2 / 2)	91.38% (53 / 58)	77.78% (7 / 9)	88.64% (39 / 44)	85.71% (6 / 7)	79.59% (39 / 49)	60.00% (3 / 5)	95.45% (42 / 44)	100.00% (5 / 5)	88.06% (59 / 67)
	$\chi^2 = 0.1881, p \geq 1.0000$ no significant difference		$\chi^2 = 0.7685, p \geq 0.5878$ no significant difference		$\chi^2 = 0.1455, p \geq 1.0000$ no significant difference		$\chi^2 = 7.5282, p < 0.05$ CC students performed worse.		$\chi^2 = 0.6716, p \geq 0.6367$ no significant difference	
PPHA			50.00% (1 / 2)	92.31% (24 / 26)			75.00% (3 / 4)	89.80% (44 / 49)		
			$\chi^2 = 3.4749, p \geq 0.2063$ no significant difference				$\chi^2 = 0.8064, p \geq 0.3909$ no significant difference			

<b>PPSY</b>			76.19% (16 / 21)	82.57% (90 / 109)	66.67% (10 / 15)	86.15% (112 / 130)	80.00% (12 / 15)	77.57% (83 / 107)	82.61% (19 / 23)	85.61% (113 / 132)
			$\chi^2 = 0.4759, p \geq 0.5405$ no significant difference		$\chi^2 = 3.8266, p \geq 0.0645$ no significant difference		$\chi^2 = 0.0451, p \geq 1.0000$ no significant difference		$\chi^2 = 0.1393, p \geq 0.7511$ no significant difference	
<b>PRDE</b>	100.00% (1 / 1)	77.78% (7 / 9)					100.00% (1 / 1)	87.50% (14 / 16)	0.00% (0 / 1)	90.91% (10 / 11)
	$\chi^2 = 0.2778, p \geq 1.0000$ no significant difference						$\chi^2 = 0.1417, p \geq 1.0000$ no significant difference		$\chi^2 = 5.4545, p \geq 0.1667$ no significant difference	
<b>PRED</b>	100.00% (14 / 14)	85.71% (102 / 119)	89.47% (17 / 19)	82.35% (84 / 102)	84.62% (22 / 26)	89.47% (102 / 114)	88.89% (16 / 18)	84.85% (84 / 99)	86.96% (20 / 23)	87.01% (67 / 77)
	$\chi^2 = 2.2931, p \geq 0.2140$ no significant difference		$\chi^2 = 0.5886, p \geq 0.5283$ no significant difference		$\chi^2 = 0.4937, p \geq 0.4984$ no significant difference		$\chi^2 = 0.2002, p \geq 1.0000$ no significant difference		$\chi^2 = 0.0000, p \geq 1.0000$ no significant difference	
<b>PREN</b>			100.00% (2 / 2)	54.05% (20 / 37)	100.00% (2 / 2)	69.77% (30 / 43)	60.00% (3 / 5)	65.12% (56 / 86)	50.00% (3 / 6)	72.60% (53 / 73)
			$\chi^2 = 1.6290, p \geq 0.4953$ no significant difference		$\chi^2 = 0.8503, p \geq 0.5798$ no significant difference		$\chi^2 = 0.0543, p \geq 1.0000$ no significant difference		$\chi^2 = 1.3725, p \geq 0.3496$ no significant difference	
<b>PRLW</b>							66.67% (2 / 3)	87.50% (14 / 16)		
							$\chi^2 = 0.8247, p \geq 0.4221$ no significant difference			
<b>PSPA</b>			100.00% (2 / 2)	62.50% (5 / 8)	100.00% (1 / 1)	100.00% (12 / 12)				
			$\chi^2 = 1.0714, p \geq 0.5333$ no significant difference		$\chi^2$ could not be computed. Zero cases with GPA < 2.00					
<b>PSW</b>	100.00% (3 / 3)	80.00% (12 / 15)	100.00% (4 / 4)	73.33% (11 / 15)	100.00% (1 / 1)	91.67% (11 / 12)	71.43% (5 / 7)	93.33% (14 / 15)	71.43% (5 / 7)	84.62% (11 / 13)
	$\chi^2 = 0.7200, p \geq 1.0000$ no significant difference		$\chi^2 = 1.3511, p \geq 0.5304$ no significant difference		$\chi^2 = 0.0903, p \geq 1.0000$ no significant difference		$\chi^2 = 1.9445, p \geq 0.2273$ no significant difference		$\chi^2 = 0.4945, p \geq 0.5868$ no significant difference	
<b>PSY</b>	92.31% (12 / 13)	86.49% (128 / 148)	100.00% (1 / 1)	96.55% (28 / 29)	100.00% (1 / 1)	96.30% (26 / 27)			0.00% (0 / 1)	92.31% (12 / 13)
	$\chi^2 = 0.3570, p \geq 0.7014$ no significant difference		$\chi^2 = 0.0357, p \geq 1.0000$ no significant difference		$\chi^2 = 0.0384, p \geq 1.0000$ no significant difference				$\chi^2 = 6.4615, p \geq 0.1429$ no significant difference	
<b>PTIM</b>	50.00% (1 / 2)	0.00% (0 / 1)					100.00% (1 / 1)	0.00% (0 / 1)	0.00% (0 / 1)	0.00% (0 / 2)
	$\chi^2 = 0.7500, p \geq 1.0000$ no significant difference						$\chi^2 = 2.0000, p \geq 1.0000$ no significant difference		$\chi^2$ could not be computed. Zero cases with GPA >= 2.00	
<b>REL</b>			100.00% (1 / 1)	100.00% (6 / 6)					100.00% (2 / 2)	75.00% (3 / 4)
			$\chi^2$ could not be computed. Zero cases with GPA < 2.00						$\chi^2 = 0.6000, p \geq 1.0000$ no significant difference	

SOC	71.43% (5 / 7)	93.18% (41 / 44)	100.00% (2 / 2)	88.89% (32 / 36)	85.71% (6 / 7)	82.93% (34 / 41)	87.50% (7 / 8)	80.00% (40 / 50)	50.00% (2 / 4)	72.92% (35 / 48)
	$\chi^2 = 3.2318, p \geq 0.1332$ no significant difference		$\chi^2 = 0.2484, p \geq 1.0000$ no significant difference		$\chi^2 = 0.0334, p \geq 1.0000$ no significant difference		$\chi^2 = 0.2524, p \geq 0.6919$ no significant difference		$\chi^2 = 0.9447, p \geq 0.5695$ no significant difference	
SPA			66.67% (2 / 3)	100.00% (2 / 2)						
			$\chi^2 = 0.8333, p \geq 1.0000$ no significant difference							
SPAN	100.00% (1 / 1)	100.00% (8 / 8)			100.00% (2 / 2)	100.00% (6 / 6)	100.00% (1 / 1)	75.00% (6 / 8)	100.00% (2 / 2)	100.00% (7 / 7)
	$\chi^2$ could not be computed. Zero cases with GPA < 2.00				$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2 = 0.3214, p \geq 1.0000$ no significant difference		$\chi^2$ could not be computed. Zero cases with GPA < 2.00	
SPCH	100.00% (1 / 1)	90.00% (9 / 10)	100.00% (1 / 1)	88.89% (8 / 9)	100.00% (1 / 1)	100.00% (8 / 8)			100.00% (1 / 1)	90.00% (9 / 10)
	$\chi^2 = 0.1100, p \geq 1.0000$ no significant difference		$\chi^2 = 0.1235, p \geq 1.0000$ no significant difference		$\chi^2$ could not be computed. Zero cases with GPA < 2.00				$\chi^2 = 0.1100, p \geq 1.0000$ no significant difference	
SPEA	100.00% (1 / 1)	100.00% (1 / 1)								
	$\chi^2$ could not be computed. Zero cases with GPA < 2.00									
SW			100.00% (1 / 1)	100.00% (1 / 1)	100.00% (1 / 1)	100.00% (1 / 1)				
			$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2$ could not be computed. Zero cases with GPA < 2.00					
THEA	100.00% (1 / 1)	91.67% (11 / 12)					100.00% (1 / 1)	88.89% (16 / 18)	100.00% (2 / 2)	66.67% (4 / 6)
	$\chi^2 = 0.0903, p \geq 1.0000$ no significant difference						$\chi^2 = 0.1242, p \geq 1.0000$ no significant difference		$\chi^2 = 0.8889, p \geq 1.0000$ no significant difference	
TIM	100.00% (16 / 16)	95.71% (67 / 70)	94.12% (16 / 17)	89.47% (51 / 57)	81.25% (13 / 16)	79.66% (47 / 59)	90.48% (19 / 21)	89.47% (51 / 57)	75.00% (15 / 20)	81.82% (36 / 44)
	$\chi^2 = 0.7105, p \geq 0.6224$ no significant difference		$\chi^2 = 0.3297, p \geq 0.6836$ no significant difference		$\chi^2 = 0.0199, p \geq 1.0000$ no significant difference		$\chi^2 = 0.0168, p \geq 1.0000$ no significant difference		$\chi^2 = 0.3949, p \geq 0.7385$ no significant difference	
TPSS					100.00% (1 / 1)	100.00% (2 / 2)	100.00% (1 / 1)	83.33% (5 / 6)	100.00% (1 / 1)	100.00% (6 / 6)
					$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2 = 0.1944, p \geq 1.0000$ no significant difference		$\chi^2$ could not be computed. Zero cases with GPA < 2.00	
UNCL	0.00% (0 / 2)	72.94% (62 / 85)	50.00% (1 / 2)	75.81% (47 / 62)	50.00% (1 / 2)	79.66% (47 / 59)	100.00% (1 / 1)	88.52% (54 / 61)		
	$\chi^2 = 5.0767, p \geq 0.0802$ no significant difference		$\chi^2 = 0.6882, p \geq 1.0000$ no significant difference		$\chi^2 = 1.0148, p \geq 0.3836$ no significant difference		$\chi^2 = 0.1294, p \geq 1.0000$ no significant difference			

<b>ZOOL</b>	100.00% (2 / 2)	66.67% (20 / 30)			100.00% (1 / 1)	81.48% (22 / 27)	0.00% (0 / 2)	72.22% (26 / 36)	0.00% (0 / 1)	84.62% (33 / 39)
	$\chi^2 = 0.9697, p \geq 0.5565$ no significant difference				$\chi^2 = 0.2254, p \geq 1.0000$ no significant difference		$\chi^2 = 4.5741, p \geq 0.0939$ no significant difference		$\chi^2 = 4.8352, p \geq 0.1750$ no significant difference	
	<b>AY 2006 – 2007</b>		<b>AY 2007 – 2008</b>		<b>AY 2008 – 2009</b>		<b>AY 2009 – 2010</b>		<b>AY 2010 – 2011</b>	
	<b>KapCC to UH-Hilo Transfers</b>	<b>UH-Hilo Natives</b>	<b>KapCC to UH-Hilo Transfers</b>	<b>UH-Hilo Natives</b>	<b>KapCC to UH-Hilo Transfers</b>	<b>UH-Hilo Natives</b>	<b>KapCC to UH-Hilo Transfers</b>	<b>UH-Hilo Natives</b>	<b>KapCC to UH-Hilo Transfers</b>	<b>UH-Hilo Natives</b>
<b>UH-Hilo All Majors</b>	0.00% (0 / 1)	86.27% (44 / 51)	100.00% (11 / 11)	76.80% (384 / 500)	100.00% (9 / 9)	78.48% (175 / 223)	83.33% (15 / 18)	82.53% (534 / 647)	95.24% (20 / 21)	84.01% (352 / 419)
	$\chi^2 = 4.4938, p \geq 0.1822$ no significant difference		$\chi^2 = 3.3014, p \geq 0.1359$ no significant difference		$\chi^2 = 2.4426, p \geq 0.2100$ no significant difference		$\chi^2 = 0.0078, p \geq 1.0000$ no significant difference		$\chi^2 = 1.9297, p \geq 0.2238$ no significant difference	
<b>ADJ</b>			100.00% (1 / 1)	84.62% (11 / 13)						
			$\chi^2 = 0.1795, p \geq 1.0000$ no significant difference							
<b>AG4</b>					100.00% (1 / 1)	65.63% (21 / 32)	100.00% (1 / 1)	81.08% (30 / 37)	100.00% (3 / 3)	90.32% (28 / 31)
					$\chi^2 = 0.5156, p \geq 1.0000$ no significant difference		$\chi^2 = 0.2319, p \geq 1.0000$ no significant difference		$\chi^2 = 0.3184, p \geq 1.0000$ no significant difference	
<b>ANTH</b>							0.00% (0 / 1)	53.85% (7 / 13)		
							$\chi^2 = 1.0769, p \geq 1.0000$ no significant difference			
<b>BIOL</b>							100.00% (1 / 1)	84.15% (69 / 82)	100.00% (3 / 3)	86.81% (79 / 91)
							$\chi^2 = 0.1880, p \geq 1.0000$ no significant difference		$\chi^2 = 0.4535, p \geq 1.0000$ no significant difference	
<b>CHEM</b>							100.00% (2 / 2)	93.55% (29 / 31)	100.00% (1 / 1)	82.35% (14 / 17)
							$\chi^2 = 0.1374, p \geq 1.0000$ no significant difference		$\chi^2 = 0.2118, p \geq 1.0000$ no significant difference	
<b>COM</b>							100.00% (1 / 1)	82.61% (19 / 23)	100.00% (1 / 1)	92.31% (24 / 26)
							$\chi^2 = 0.2087, p \geq 1.0000$ no significant difference		$\chi^2 = 0.0831, p \geq 1.0000$ no significant difference	
<b>ENVS</b>							100.00% (1 / 1)	100.00% (11 / 11)		
							$\chi^2$ could not be computed. Zero cases with GPA < 2.00			

<b>GBUS</b>			100.00% (1 / 1)	71.28% (67 / 94)						
			$\chi^2 = 0.4013, p \geq 1.0000$ no significant difference							
<b>GEN</b>			100.00% (3 / 3)	78.21% (183 / 234)			100.00% (2 / 2)	82.16% (152 / 185)	100.00% (1 / 1)	77.68% (87 / 112)
			$\chi^2 = 0.8331, p \geq 0.5995$ no significant difference				$\chi^2 = 0.4332, p \geq 1.0000$ no significant difference		$\chi^2 = 0.2866, p \geq 1.0000$ no significant difference	
<b>GEOG</b>									100.00% (1 / 1)	100.00% (95 / 5)
									$\chi^2$ could not be computed. Zero cases with GPA < 2.00	
<b>HIST</b>							100.00% (1 / 1)	77.78% (7 / 9)		
							$\chi^2 = 0.2778, p \geq 1.0000$ no significant difference			
<b>HWST</b>			100.00% (1 / 1)	83.36% (19 / 22)	100.00% (3 / 3)	67.65% (23 / 34)	100.00% (1 / 1)	84.21% (16 / 19)	100.00% (2 / 2)	86.67% (13 / 15)
			$\chi^2 = 0.1568, p \geq 1.0000$ no significant difference		$\chi^2 = 1.3812, p \geq 0.5399$ no significant difference		$\chi^2 = 0.1858, p \geq 1.0000$ no significant difference		$\chi^2 = 0.3022, p \geq 1.0000$ no significant difference	
<b>JPST</b>			100.00% (1 / 1)	70.00% (7 / 10)						
			$\chi^2 = 0.4125, p \geq 1.0000$ no significant difference							
<b>KES</b>									100.00% (2 / 2)	86.11% (31 / 36)
									$\chi^2 = 0.3199, p \geq 1.0000$ no significant difference	
<b>MARE</b>			100.00% (2 / 2)	72.58% (45 / 62)	100.00% (1 / 1)	87.50% (56 / 64)	100.00% (1 / 1)	88.89% (48 / 54)		
			$\chi^2 = 0.7467, p \geq 0.6037$ no significant difference		$\chi^2 = 0.1425, p \geq 1.0000$ no significant difference		$\chi^2 = 0.1247, p \geq 1.0000$ no significant difference			
<b>MATH</b>									100.00% (1 / 1)	83.33% (5 / 6)
									$\chi^2 = 0.1944, p \geq 1.0000$ no significant difference	
<b>POLS</b>							0.00% (0 / 1)	91.67% (22 / 24)		
							$\chi^2 = 7.6389, p \geq 0.1200$ no significant difference			

PRNU	0.00% (0 / 1)	86.27% (44 / 51)	100.00% (2 / 2)	80.00% (52 / 65)	100.00% (3 / 3)	80.88% (55 / 68)	100.00% (3 / 3)	82.67% (62 / 75)	75.00% (3 / 4)	81.03% (47 / 58)
	$\chi^2 = 5.6078, p \geq 0.1538$ no significant difference		$\chi^2 = 0.4963, p \geq 1.0000$ no significant difference		$\chi^2 = 0.7021, p \geq 0.6240$ no significant difference		$\chi^2 = 0.6240, p \geq 1.0000$ no significant difference		$\chi^2 = 0.0873, p \geq 1.0000$ no significant difference	
PSY							0.00% (0 / 1)	80.00% (52 / 65)		
							$\chi^2 = 3.7714, p \geq 0.2121$ no significant difference			
UNCL					100.00% (1 / 1)	80.00% (20 / 25)	100.00% (1 / 1)	52.63% (10 / 19)	100.00% (2 / 2)	86.36% (19 / 22)
					$\chi^2 = 0.2476, p \geq 1.0000$ no significant difference		$\chi^2 = 0.8612, p \geq 1.0000$ no significant difference		$\chi^2 = 0.3117, p \geq 1.0000$ no significant difference	
	AY 2006 – 2007		AY 2007 – 2008		AY 2008 – 2009		AY 2009 – 2010		AY 2010 – 2011	
	<b>KapCC to UH-West Oahu Transfers</b>	<b>UH-West Oahu Natives</b>	<b>KapCC to UH-West Oahu Transfers</b>	<b>UH-West Oahu Natives</b>	<b>KapCC to UH-West Oahu Transfers</b>	<b>UH-West Oahu Natives</b>	<b>KapCC to UH-West Oahu Transfers</b>	<b>UH-West Oahu Natives</b>	<b>KapCC to UH-West Oahu Transfers</b>	<b>UH-West Oahu Natives</b>
<b>UH-West O'ahu All Majors</b>	80.00% (4 / 5)	83.56% (61 / 73)	81.82% (18 / 22)	83.18% (89 / 107)	81.82% (27 / 33)	87.32% (124 / 142)	91.30% (21 / 23)	74.83% (113 / 151)	88.68% (47 / 53)	82.70% (153 / 185)
	$\chi^2 = 0.0427, p \geq 1.0000$ no significant difference		$\chi^2 = 0.0238, p \geq 1.0000$ no significant difference		$\chi^2 = 0.6859, p \geq 0.5754$ no significant difference		$\chi^2 = 3.0582, p \geq 0.1097$ no significant difference		$\chi^2 = 1.0968, p \geq 0.3956$ no significant difference	
APSC			100.00% (1 / 1)	(0 / 0)	100.00% (1 / 1)	(0 / 0)	50.00% (1 / 2)	100.00% (4 / 4)		
			$\chi^2$ could not be computed. No cases with native students		$\chi^2$ could not be computed. No cases with native students		$\chi^2 = 2.4000, p \geq 0.3333$ no significant difference			
BACC	100.00% (1 / 1)	85.71% (6 / 7)								
	$\chi^2 = 0.1633, p \geq 1.0000$ no significant difference									
BBUS	100.00% (1 / 1)	85.00% (17 / 20)								
	$\chi^2 = 0.1750, p \geq 1.0000$ no significant difference									
DPEM									100.00% (1 / 1)	100.00% (1 / 1)
									$\chi^2$ could not be computed. Zero cases with GPA < 2.00	

EDUC			66.67% (2 / 3)	100.00% (17 / 17)	100.00% (1 / 1)	88.00% (22 / 25)			100.00% (3 / 3)	77.27% (17 / 22)
			$\chi^2 = 5.9649, p \geq 0.1500$ no significant difference		$\chi^2 = 0.1357, p \geq 1.0000$ no significant difference				$\chi^2 = 0.8523, p \geq 0.5870$ no significant difference	
GBUS			88.89% (8 / 9)	80.00% (24 / 30)	76.92% (10 / 13)	92.31% (48 / 52)	100.00% (9 / 9)	71.43% (35 / 49)	83.33% (15 / 18)	82.46% (47 / 57)
			$\chi^2 = 0.3714, p \geq 0.6665$ no significant difference		$\chi^2 = 2.5616, p \geq 0.1365$ no significant difference		$\chi^2 = 3.3896, p \geq 0.0961$ no significant difference		$\chi^2 = 0.0073, p \geq 1.0000$ no significant difference	
HUM			100.00% (1 / 1)	80.00% (4 / 5)	100.00% (1 / 1)	90.00% (9 / 10)	100.00% (2 / 2)	55.56% (5 / 9)	100.00% (2 / 2)	81.82% (9 / 11)
			$\chi^2 = 0.2400, p \geq 1.0000$ no significant difference		$\chi^2 = 0.1100, p \geq 1.0000$ no significant difference		$\chi^2 = 1.3968, p \geq 0.4909$ no significant difference		$\chi^2 = 0.4298, p \geq 1.0000$ no significant difference	
PUBA			100.00% (3 / 3)	100.00% (12 / 12)	100.00% (6 / 6)	82.35% (14 / 17)	100.00% (4 / 4)	84.85% (28 / 33)	100.00% (15 / 15)	88.57% (31 / 35)
			$\chi^2$ could not be computed. Zero cases with GPA < 2.00		$\chi^2 = 1.2176, p \geq 0.5392$ no significant difference		$\chi^2 = 0.7008, p \geq 0.6245$ no significant difference		$\chi^2 = 1.8634, p \geq 0.3024$ no significant difference	
SECO	0.00% (0 / 1)	100.00% (5 / 5)								
	$\chi^2 = 6.0000, p \geq 0.1667$ no significant difference									
SPSY	100.00% (1 / 1)	80.00% (16 / 20)								
	$\chi^2 = 0.2471, p \geq 1.0000$ no significant difference									
SSCI			60.00% (3 / 5)	74.42% (32 / 43)	72.73% (8 / 11)	81.58% (31 / 38)	80.00% (4 / 5)	72.73% (32 / 44)	72.73% (8 / 11)	83.67% (41 / 49)
			$\chi^2 = 0.4715, p \geq 0.6025$ no significant difference		$\chi^2 = 0.4115, p \geq 0.6727$ no significant difference		$\chi^2 = 0.1218, p \geq 1.0000$ no significant difference		$\chi^2 = 0.7189, p \geq 0.6703$ no significant difference	
UNCL	100.00% (1 / 1)	80.95% (17 / 21)					100.00% (1 / 1)	75.00% (9 / 12)	100.00% (3 / 3)	70.00% (7 / 10)
	$\chi^2 = 0.2328, p \geq 1.0000$ no significant difference						$\chi^2 = 0.3250, p \geq 1.0000$ no significant difference		$\chi^2 = 1.1700, p \geq 0.5280$ no significant difference	

Due to the number of cells with expected counts less than 5, asymptotic Chi-Square tests were not used. All Chi-Square tests used exact p values. GPAs were cumulative for the academic year indicated. Green shading in cells indicates a significantly higher percentage of community college transfers earned GPAs greater than or equal to 2.00 at the 4-yr institution as compared to native 4-yr students, yellow shading indicates no significant difference, and red shading indicates a lower percentage of transfer students earned at least a 2.00 GPA as compared to the native 4-yr students. Grey shading indicates that  $\chi^2$  could not be computed due to the number of cells with zero cases.