CLA Population/Sample Comparisons

Academic Year 2011 - 2012
Population/Sample Comparisons: Gender

Freshmen: Gender $X^2 (2) = 18.433, \ p < .001$

Seniors: Gender (ns)

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**Population**

- **Freshmen**:
  - Gender: 1137 Females, 833 Males, 2 Others
  - $X^2 (2) = 18.433, \ p < .001$

- **Seniors**:
  - Gender: 844 Females, 599 Males, 51 Others

**Sample**

- **Freshmen**:
  - Gender: 80 Females, 21 Males, 0 Others

- **Seniors**:
  - Gender: 51 Females, 32 Males, 0 Others
Population/Sample Comparisons: Race

**Freshmen: Race (ns)**

- Population: 1352
- Sample: 74

**Seniors: Race \(X^2 (5) = 16.212, \ p = .006\)**

- Population: 1295
- Sample: 69
Population/Sample Comparisons: College

Freshmen: College (ns)

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Seniors: College (ns)

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Population/Sample Comparisons: Honors College Enrollment

**Freshmen:** $X^2 (1) = 5.261, \ p = .022$

**Seniors:** $X^2 (1) = 4.669, \ p = .031$
Comparison of Mean and Median (entering academic ability on ACT scale) between Sample and Population

Freshmen: significant difference between means, $t(100) = 2.248$, $p = .027$.

Seniors: significant difference between means, $t(82) = 2.495$, $p = .015$. 
Fall 2011 Freshmen
Comparison of normal curves for population and sample

Population

Sample
Spring 2012 Seniors
Comparison of normal curves for population and sample

Population

Sample

Entering Academic Ability

Frequency

Entering Academic Ability

Frequency

Mean = 23.17
Std. Dev. = 4.032
N = 1,443

Mean = 24.38
Std. Dev. = 3.933
N = 50
Comparison of Mean and Median (High School GPA [freshmen] and college GPA [seniors]) between Sample and Population

Freshmen: significant difference between means, $t(100) = 4.00, p < .001$.

Seniors: significant difference between means, $t(82) = 4.409, p < .001$. 

![Bar chart showing mean and median for freshmen and seniors with population and sample comparisons.](chart.png)
Fall 2011 Freshmen
Comparison of normal curves for population and sample

Population

Sample
Spring 2012 Seniors
Comparison of normal curves for population and sample

Population

Sample

Cumulative GPA

Cumulative GPA

Mean = 3.14
Std Dev = .814
N = 1,443

Mean = 3.36
Std Dev = .496
N = 63