
Evaluating the impact of library one-shot instruction on students’ success in subsequent courses

INQUIRY QUESTION
Does one-shot information competency (IC) library instruction in courses prior to English 103, a freshman/sophomore-level research and writing course, contribute to students’ success in English 103?

METHODOLOGY

1. STUDENT GRADES
We looked at 4 years’ worth of student grade records to find out whether participation in English 101 library sessions correlates with higher course-end grades in English 103.

2. STUDENT PAPERS
We used a rubric to evaluate information competency skills in 83 early-written research papers in English 103 to see if there is a connection between advanced IC skills displayed in those papers, and one-shot library instruction in English 101. An interrater reliability analysis using the Kappa statistic was performed to determine consistency among raters.

3. STUDENT SURVEYS
We surveyed 150+ English 103 students to see if there are relationships between students’ self-reported attendance of library one-shots in English 101, their assessment of the long-term value of the library instruction, and their self-reported use of library services.

1. Two-tailed t-test for equality of means found that having 4 one-shots in English 103 correlates with an approaching-statistically-significant 2-point grade improvement in English 103.

2. The data from our investigation of student papers was inconclusive. Interrater reliability measures did not meet the recommended threshold for drawing inferences about the data.

3. The total number of one-shots that students enrolled in English 103 report having ever attended correlates significantly with:
   a) the extent (self-reported) to which they were able to apply in English 103 the research strategies they reportedly learned in one-shots in English 101.
   b) the frequency (self-reported) with which they consult with librarians.

RESULTS

- **Impact of multiple one-shots on course-end grade in subsequent English course**

- **Interrater reliability**

**Thinking back to the library class(es) you had with a librarian [in English 101], how much did that instruction help you as you worked on your research papers in English 103?**

**Total number of one-shots attended in English 101**

**Impact of multiple one-shots on end grades and self-reported use of library one-shots in English 101**

**Impact of one-shot attendance on end grade in subsequent English course**

**Impact of one-shot attendance on research strategy application in English 103**

NEXT STEPS: DIG DEEPER

Our results suggest that participation in multiple one-shots prior to English 103 may positively impact course-end grades and self-reported application of research strategies in English 103.

Our inquiry process raised additional questions for further study:

- Is there a relationship between students’ self-reported application of research strategies, and indicators of long-term success such as persistence and GPA?
- Could more participation in one-shots among other student groups, such as pre-college students, impact their course-end grades and/or application of research strategies in coursework?
- Is there a “point of diminishing returns” at which the number of one-shots might have less impact on student success indicators?
- Do other instruction models, such as credit-bearing library research courses, have a greater long-term impact on students’ success?

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LITERATURE REVIEW


For a complete review, please visit: http://libguides.pierce.ctc.edu/AiALiteratureReview

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<thead>
<tr>
<th>Grade</th>
<th>Number of One-Shots</th>
<th>Impact on Course End Grades</th>
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<tr>
<td>A</td>
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<tr>
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<tr>
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**Impact of one-shot attendance on end grades**

**Impact of one-shot attendance on research strategy application**

**Impact of one-shot attendance on end grades and self-reported use of library one-shots in English 101**

**Impact of one-shot attendance on course-end grade in subsequent English course**

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**Kappa statistic results**

- Fair agreement: 0.41
- Substantial agreement: 0.61
- Almost perfect agreement: 0.81

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**Final grade in English 103**

- 2.45
- 2.55
- 2.65
- 2.75
- 2.85

**Number of one-shots reported**

- 0
- 1
- 2
- 3
- 4

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**References**

