**The adoption of an open textbook in a large physics course:**

**An analysis of cost, outcomes, use, and perceptions**

**Appendix**

Data for figures that don’t have percentages marked on them

Data for Figure 3: How often respondents have taken certain actions as a result of textbook costs.

|  |  |  |  |
| --- | --- | --- | --- |
| **Actions taken because of textbook costs** | **Never** | **Rarely or Sometimes** | **Often or very often** |
| Did not purchase a required textbook for a course because of cost | 43.3% | 43.3% | 13.3% |
| Registered for a different section of a course because the textbook was cheaper | 74.7% | 22.7% | 2.7% |
| Took fewer courses than I’d like because I can’t afford the books | 81.3% | 16.7% | 2.0% |
| Dropped or withdrew from a course because the textbook was too expensive | 84.0% | 14.7% | 1.3% |

*Note*: N=150

Data for Figure 4: Grades distribution in Physics 100, Fall 2012-Spring 2016.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Year and Term** | **A** | **B** | **C** | **D** | **F** |
| Fall 2012 (N=728) | 44% | 41% | 6% | 1% | 2% |
| Spring 2013 (N=34) | 41% | 21% | 12% | 15% | 3% |
| Fall 2013 (N=742) | 35% | 45% | 11% | 2% | 7% |
| Spring 2014 (N=33) | 36% | 30% | 30% | 0 | 3% |
| Fall 2014 (N=750) | 28% | 40% | 20% | 2% | 10% |
| Spring 2015 (N=67) | 36% | 39% | 12% | 3% | 11% |
| Fall 2015 (N=755) | 37% | 38% | 16% | 2% | 7% |
| Spring 2016 (N=56) | 51% | 18% | 16% | 11% | 4% |

*Note:* The Fall version of Physics 100 is a face-to-face course, while the Spring version is a distance course.

Data for Figure 5: How important students found various features of the Physics 100 open textbook

|  |  |  |  |
| --- | --- | --- | --- |
| **Feature** | **Somewhat or very important** | **Of average importance** | **Somewhat or very unimportant** |
| The readings were customized to this particular course | 94.4% | 4.2% | 1.4% |
| The Physics 100 textbook didn’t cost any money | 92.3% | 4.9% | 2.8% |
| I could access the textbook anywhere with an internet connection | 86.0% | 11.2% | 2.8% |
| The textbook could be read on my phone or other mobile device | 64.3% | 21.7% | 14.0% |
| I could download the readings and read them even without an internet connection | 62.9% | 25.9% | 11.2% |
| I could download the readings and print them | 49.6% | 18.9% | 31.5% |

*Note*: N=143