

Chart and References

Cost Items for Implementing and Maintaining a K-12 Online School

Rob Darrow

Dr. Walt Buster

EDL 202 Educational Reform

California State University, Fresno

April 26, 2008

Chart 1. Brick and Mortar School vs. Online School Cost Comparison Chart

Chart developed based on information from Florida Tax Watch (2007), Anderson et al (2006), Adsit (2004), and SREB (2006), and input from members of the NACOL discussion forum (April, 2008).

| <u>Costs for Brick and Mortar School Only</u> | <u>Costs for Online School Only</u> | <u>Costs for Both</u> |
|---|--|--|
| Buildings and Grounds Maintenance | Space for offices and computer lab for students. | Administration |
| Security | Course Management System | Teachers |
| Transportation | Course Content | Professional Development |
| Energy | Computer and Internet Access for every teacher and student | Students |
| Computer and internet access for every teacher | Mobile communication device for teachers (e.g. cell phone) and network | Student Information System |
| Teacher sub costs (for teacher sick days or professional development) | Technology Support (e.g. help desk, course updating, server maintenance) | State Testing System |
| Athletics | Marketing and advertising | Textbooks |
| Music program (e.g. band) | | Courses and Course Outlines approved by Governing Board |
| Nursing services | | Access to Computers |
| | | Special Education Services |
| | | Student Support (Counseling, library) |
| | | Network infrastructure |
| | | Telephones and network |
| | | |

References

- Adsit, J. (2004). Estimated cost of operating a cyberschool in Colorado. Colorado Cyberschool Association. Retrieved March 10, 2008 from <http://www.dkfoundation.org/pdf/CyberschoolCostReportFeb2004CCA.pdf>.
- Adsit, J. (2003). Funding online education: a report to the Colorado online education programs study committee. Retrieved March 22, 2008. <http://www.dkfoundation.org/pdf/FundingOnlineEd-JAdsit.pdf>.
- Allen, I. E. and Seaman, J. (2007). Online nation: five years of growth in online learning. Hunter College and Graduate Center of the City University of New York, Olin and Babson Colleges. The Sloan Consortium. Retrieved February 20, 2008 from <http://www.sloan-c.org/publications/survey/index.asp>.
- Anderson, A.B., Augenblick, J., and DeCesare, D., and Conrad, J. (2006). 20/20 Vision for Education: Costs and Funding of Virtual Schools. Funded by Bellsouth Foundation. Retrieved March 22, 2008 from <http://www.apaconsulting.net/reports.php>.
- Annetta, L. (2004). Investigating the relationship between cost, reach, and richness in distance education. *Online Journal of Distance Learning Administration, Volume VII, Number IV, Winter 2004. State University of West Georgia, Distance Education Center*. Retrieved April 13, 2008 from http://www.westga.edu/%7Edistance/ojdl/search_results_id.php?id=278.
- Arneberg, Per, Keegan, Desmond et al. (2007). Recommendations for robust and sustainable large-scale e-learning. Retrieved March 23, 2008 from http://nettskolen.nki.no/in_english/megatrends/.
- Bearden, D.L. (2008). Cyberschool Finance: A Study of Equity and Adequacy. (Doctoral Dissertation, Capella University, 2008) Retrieved March 24, 2008 <http://dbbearden.googlepages.com/links>.
- Beaudoin, M. F. (2003). Distance education leadership for the new century. *Online Journal of Distance Learning Administration, Volume VI, Number II, Summer 2003. State University of West Georgia, Distance Education Center*. Retrieved March 30, 2008 from <http://www.westga.edu/~distance/ojdl/summer62/beaudoin62.html>.
- Berge, Z.L. and Clark, T. (2005). *Virtual schools: planning for success*. New York: Teachers College Press.
- Bernard, R.M., Abrami, P.C., Lou, Y., Borokhovski, E., Wade, A., Wozney, L., Wallett, P.A., Fiset, M. and Huang, B. How does distance education compare with classroom instruction? A meta-analysis of the empirical literature. *Review of Educational Research*. Fall 2004, Vol. 74, No. 3, pp. 379–439. Retrieved on March 30, 2008 from Sage Journals Online.

- Cavaluzzo, L. and Higgins, M. (2001). Who Should Fund Virtual Schools? The CNA Corporation. Retrieved March 22, 2008 from <http://www.cna.org/documents/P&P%20102.pdf>.
- Cavanaugh, C. and Blomeyer, R. Eds. (2007). *What works in K-12 online learning*. Eugene, Oregon: International Society for Technology in Education.
- Cavanaugh, C., Gillan, K.J., Kromrey, J., Hess, M. and Blomeyer, R. (2004). The effects of distance education on K-12 student outcomes: a meta-analysis. Learning Point Associations. Retrieved March 15, 2008 from <http://www.ncrel.org/tech/distance/index.html>.
- Clark, T. and Else, D. (1998). Distance education, electronic networking, and school policy. *Phi Delta Kappa*. Fastback 441. Bloomington, Indiana.
- Clark, T. (2001). Virtual schools: trends and issues. A study of virtual schools in the United States. Phoenix, AZ: Distance Learning Resource Network at WestEd. Retrieved March 18, 2008, from http://www.wested.org/online_pubs/virtualschools.pdf.
- Couros, A. V. (2006) Examining the open movement: possibilities and implications for education. (Doctoral Dissertation, The University of Regina, Canada, 2006) Retrieved April 26, 2008, from ProQuest Digital Dissertations database. (Publication No. AAT NR29183).
- Downes, S. (2007). Models for sustainable open educational resources. *Interdisciplinary Journal of Knowledge and Learning Objects*. National Research Council of Canada. Retrieved April 20, 2008 from <http://ijklo.org/Volume3/IJKLOv3p029-044Downes.pdf>.
- Florida Tax Watch Center for Educational Performance and Accountability (2007). Final report: a comprehensive assessment of Florida Virtual School. Retrieved March 30, 2008 from http://www.nacol.org/docs/FLVS_Final_Final_Report%2810-15-07%29.pdf.
- Freedman, G., Darrow, R., Watson, J. The California virtual school report: a national survey of virtual education practice and policy with recommendations for the state of California. University of California College Prep Initiative. Retrieved March 20, 2008 from http://www.wiche.edu/telecom/projects/vhs/VHS_Report_lowres.pdf.
- Greenway, R. and Vanourek, G. (2006). Virtual revolution: understanding online schools. *Education Next*. Stanford University, Hoover Institution. Retrieved March 30, 2008 from <http://www.hoover.org/publications/ednext/3210506.html>.
- Hargadon, S. (2007). Susan Patrick on online learning. Message posted March 9, 2007 <http://www.stevhargadon.com/2007/03/susan-patrick-on-online-learning-school.html>.

- Kalmon, S. and Watson, J. (2004). Report to the joint budget committee on the Colorado state legislature on the cost of online education. Retrieved April 13, 2008 from http://www.evergreenassoc.com/pdfs/Colorado_State_Legislature_Cost_of_Online_Ed.pdf.
- Klonoski, E.. 2005. Cost-saving collaboration: Purchasing and deploying a statewide learning management system. *Innovate* 1 (4). Retrieved March 22, 2008 <http://www.innovateonline.info/index.php?view=article&id=69>.
- Marsh, G., McFadden, A.C., Price, B.J. (1999). An overview of online educational delivery applications. *Online Journal of Distance Learning Administration*, Volume II, Number III, Fall 1999. State University of West Georgia, Distance Education. Retrieved March 30, 2008 from <http://www.westga.edu/~distance/marsh23.html>.
- Morgan, B. (2000). Is distance learning worth it? Helping to determine the costs of online courses. Marshall University. Retrieved March 20, 2008 from http://www.eric.ed.gov/ERICDocs/data/ericdocs2sql/content_storage_01/0000019b/80/16/96/e4.pdf.
- North American Council for Online Learning (2008). Forum posts from members. Posted April 26, 2008 at www.nacol.org.
- Picciano, A. G. and Seaman, J. (2007). K-12 online learning: a survey of U.S. school district administrators. Hunter College and Graduate Center of the City University of New York, Olin and Babson Colleges. The Sloan Consortium. Retrieved January 10, 2008 from http://www.sloan-c.org/publications/survey/K-12_06.asp.
- Russell, T.L. (1999). *The no significant difference phenomenon*. Raleigh: North Carolina State University.
- Sack, J. L. (2003). The virtual high school: An historical analysis of one e-learning model. (Doctoral Dissertation, Seton Hall University, 2003) Retrieved March 20, 2008, from ProQuest Digital Dissertations database. (Publication No. AAT 3136108).
- Setzer, J. C. and Lewis, L. (2005). Distance education courses for public elementary and secondary school students: 2002-2003. National Center for Education Statistics. Retrieved March 30, 2008 from <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2005010>.
- Shachar, M. and Neumann, Y. (2003). Differences between traditional and distance education academic performances: a meta-analytic approach. *International Review of Research in Open and Distance Learning*. Volume 4, Number 2. Retrieved March 20, 2008 from <http://www.irrodl.org/index.php/irrodl/article/view/153>.

- Smith, R., Clark, T., and Blomeyer, R. (2005). A synthesis of new research about online learning. Learning Point Associates. Retrieved March 23, 2008 from <http://www.ncrel.org/tech/synthesis/>.
- Southern Regional Education Board (2006). Cost guidelines for state virtual schools development, implementation and sustainability. Retrieved April 13, 2008 from <http://www.sreb.org/programs/EdTech/pubs/PDF/CostGuidelinesSVS.asp>.
- Tankersley, W. J. and Burnham, J. F. (2007). Distance education in Georgia's public school districts: baseline data on utilization of the perceived barriers to implementation and expansion. *Online Journal of Distance Learning Administration, Volume X, Number IV, Winter 2007*. University of West Georgia, Distance Education Center. Retrieved March 20, 2008 from <http://www.westga.edu/~distance/ojdl/winter104/tankersley104.html>.
- Taylor, Thomas H., Parker, G.D. and Tebeaux, Elizabeth (2001). Confronting cost and pricing issues in distance education. *Educause Quarterly* (3), 16-23. Retrieved March 10, 2008 from <http://www.educause.edu/ir/library/pdf/eqm0131.pdf>.
- Watson, J. F., Winograd, K., and Kalmon, S. (2004). Keeping pace with K-12 online learning. North Central Regional Educational Laboratory at Learning Point Associates.
- Watson, J.F. (2005). Keeping pace with K-12 online learning. Learning Point Associates. Retrieved March 1, 2008 from <http://www2.learningpt.org/catalog/item.asp?SessionID=306796785&productID=143>.
- Watson, J.F. and Ryan, J. (2007). Keeping pace with K-12 online learning. Evergreen Consulting Associates. Retrieved March 1, 2008 from <http://www.nacol.org/docs/KeepingPace07-color.pdf>.
- United States Department of Education (2007). Connecting students to advanced courses online: innovations in education. West Ed. Retrieved March 15, 2008 from <http://www.ed.gov/admins/lead/academic/advanced/index.html>.