INTRODUCTION

A decade of hindsight allows us to examine the phenomenon of Web-based course delivery and evaluate its successes and failures. When Web-delivered courses mushroomed from campuses in the 1990s, they were embraced by students, faculty, and administrators alike. The prospect of “electronic tutelage” (Marold, 2002), which allowed students through Web interface to take college courses for credit any time, any place (ATAP), was immediately popular with students. The interruptions of job and schedule changes, relocation, childbirth, failed transportation to campus, and so forth no longer necessitated an interruption in progress toward a degree. Likewise, faculty saw online teaching as an opportunity to disseminate knowledge and assess student progress according to their personal preferences, and to communicate personally with their students, albeit virtually. Administrators saw the revenue without physical classroom allocations as an immediate cash cow. In the beginning, there was satisfaction all around. Although this state of affairs was not necessarily universal, generally it could be concluded that Web-based education was a very good thing.

The Evolution Of Web-Based Course Delivery

Web-based education is a variation of distance learning: the content (college courses from an accredited North American institution, for purposes of this chapter) is delivered via the World Wide Web. The Web course content covers a quarter or semester of curriculum that the student must complete and prove a level of mastery within a given timeline. For the most part, Web-based courses use existing college curriculum and timelines. Web-based education is currently the most popular form of distance education. As educators are inclined to do, it was not long before they wanted to stand back and evaluate what they had created and determine the success of Web-delivered courses as a form of distance education. With McLuhanesque procedures, a glance in the “rear view mirror” was in order
(McLuhan, 1964.) The results of many measures of success show that for some of the students, some of the time, in some situations, Web-based education is quite successful. Likewise, for many persons in many situations and in many phases of their formal education, Web-delivered education is not the answer.

BACKGROUND

The advent of the World Wide Web in the early 1990s promised a more effective, user-friendly form of Internet distance education. The graphical hypertext and, indeed, the hypermedia nature of the Web could enhance course delivery. Almost immediately, Web courses began to flourish. A new mode of delivery was firmly established.

Web-Based Education’s Successes and Failures

Numerous publications have exposed problems associated with the Web-based form of distance education. The population taking the courses was sometimes the problem (Haga, 2001). The attrition and failure rate of Web-delivered courses was higher than the classroom arena (Terry, 2001). The content of the course could be problematic (Haga, 2002). The credibility of course credit achieved online was sometimes suspect (Moreno, 2000). The level of courses offered online was sometimes suspect (Marold, 2003). Research findings suggest the following conclusions concerning Web-based education (see Table 1).

There are almost as many reports of success with Web-based education as there are reports of failures. Students who are successful with Web courses tend to take more of them, sometimes as many as 90 hours of the 120 hours required for a bachelor’s degree. There are now entire degrees offered online. The earliest research on Web-based education reported no statistical difference in final grades between Web-based groups and classroom groups (Mawhinney, 1998; Schulman, 1999).

The conclusion that Web-delivered education, like all distance education, is only appropriate for some students cannot be denied. It is obvious that Web courses are not going to go away. It is also undeniable that regardless of how enrollments in Web-based courses are screened, there will be students who enroll in Web courses that should not be in them. It has been shown time and again that some Web students enroll for all of the wrong reasons (Haga, Marold, & Helms, 2001). It is equally obvious that Web courses fill an enormous need for many students and are, therefore, very successful in many instances.

While the students who are at risk for failure in Web-based courses that are analytical and require problem solving are those students who are generally classified as mid-level achievers, taking prerequisite courses online seems to alleviate the risk slightly (Pence, 2003). The student group at the greatest risk is the mid-level achieving group, which in a normal distribution is the largest number of students in the class (Marold & Haga, 2004). Pence suggests some alleviating factors, such as taking the prerequisite course online from the same institution. This suggests that as students become more accustomed to the requirements and idiosyncrasies of online learning, the risk decreases. Experience makes a difference. In addition, the majority of students taking online courses indicate that they would take another online course, even though they perceive them to be more work than an equivalent classroom course. Despite attrition and failure rates that sometimes reach 50%, Web-based education is clearly a student favorite.

Tables 2 and 3 show some of the research results of a decade of Web-based education.

In the above research of two separate Web-based required computer information systems junior level courses in the same department of a large urban state school, student tests were higher...
Related Content

eCampusAlberta: A Story of Strategic Partnership and Collaboration Success in Distance Education
Tricia Donovan and Janet Paterson-Weir (2013). Global Challenges and Perspectives in Blended and Distance Learning (pp. 124-136).
www.igi-global.com/chapter/ecampusalberta-story-strategic-partnership-collaboration/75648?camid=4v1a

Employing Technology to Create Authentic Learning Environments
www.igi-global.com/chapter/employing-technology-create-authentic-learning/39451?camid=4v1a

Social Media in Higher Education: A Framework for Continuous Engagement
www.igi-global.com/article/social-media-in-higher-education/217471?camid=4v1a

Evaluating the Learning Effectiveness of Using Web-Based Instruction: An Individual Differences Approach
www.igi-global.com/article/evaluating-learning-effectiveness-using-web/2256?camid=4v1a