

## **eFACT: Formative Assessment of Classroom Teaching For Online Classes**

**Gina G. BERRIDGE, Ph.D.**  
Assistant Professor, Teacher Education  
University of Southern Indiana  
8600 University Blvd. Evansville, IN 47712, USA

**Samantha PENNEY**  
Director of Distance Education  
Indiana State University  
200 N. Seventh Street Terre Haute, Indiana 47809, USA

**Judy WELLS**  
Instructor of Mathematics  
University of Southern Indiana  
8600 University Blvd. Evansville, IN 47712 USA

### **ABSTRACT**

As online degrees and programs increase in number and popularity so does the need for excellence and quality in the programs and courses offered. Becoming more scholarly in online course delivery, especially in the evaluation or assessment of those classes is essential for teaching and learning.

This paper explores the pilot of an evaluation of student learning through anonymous feedback at mid-semester in seven online courses. Electronic Formative Assessment of Classroom Teaching (eFACT) is a process of gathering anonymous student feedback through a faculty consultant using e-mail. This process gives the online instructor the opportunity to make changes to the delivery of the course while the class is in session. Instructors felt they gained useful and meaningful information and were able to make changes in their delivery format midway through the semester. Student learning was helped through the use of online features that made the class more social and interactive. Perceived or real communication issues with the instructor and classmates hindered student learning. Although often citing the "nature" of online learning, the social aspect of learning seemed to be missing for many students. Assessments measures like eFACT can elicit detailed perceptions of student learning while the class is in session. It can affect the quality of the delivery method of the course by giving instructors immediate feedback as students reflect on their learning midway through the course.

**Keywords:** Distance education, assessment, student evaluations

### **INTRODUCTION**

Online degrees and programs continue to increase in number and popularity around the world. According to the National Center of Education Statistics (2010) the university with the highest enrollment in 2009 was the University of Phoenix, Online Campus, with an enrollment of 380,232 students. Allen & Seaman (2010) reported that in the fall of 2009 an estimated 5.6 million students took an online course, an increase of one million students from the fall term of 2008.

As the popularity and convenience of online learning increases, so does the need for excellence and quality in the programs and courses offered. Becoming more scholarly in online delivery, especially in the evaluation or assessment of the methods used is essential for teaching and learning. Many universities use student evaluations to assess the quality of online courses. Student evaluations of the teaching strategies, materials and delivery methods used in online classes are essential for quality programs and can give instructors valuable information about their online course. Student evaluations that are conducted at the end of a semester can help faculty members adjust and alter their teaching methods. However, the dilemma is that end of semester student evaluations are too late to change strategies and delivery methods for the students currently enrolled. Also, changing methods for one class may not meet the expectations of another class. Students differ in each class based on their own expectations of the class, prior knowledge and technology experience. If feedback is given while the course is in session, online instructors are able to adjust strategies and methods to better meet the needs of current students.

This paper explored the pilot of an evaluation of student learning through anonymous feedback at mid-semester in seven online courses. Electronic Formative Assessment of Classroom Teaching for Online Classes (eFACT) is a process of gathering anonymous student feedback through a faculty consultant using e-mail. This process gives the online instructor the opportunity to make changes to the delivery and quality of the course while the class is in session.

## **LITERATURE REVIEW**

A kaleidoscope of viewpoints exists about online learning. The advantages of online courses cannot be denied. With an increasing adult student population, online programs offer flexibility and convenient learning opportunities (Sher, 2008). Online courses are convenient and reach out to students who would not be able to come to a face-to-face class because of family, job obligations, proximity and others issues. Online courses give students flexibility on learning the material and allowing them to learn it at their own pace. The advantages of online learning and its effectiveness in engaging student learners are numerous. Rohleder, Bozalek, Carolissen, Leibowitz & Swartz (2008) cite a study by Johns (2003) that attests to five virtues of online learning.

- The course material is available at any time.
- Students can spend more time on areas that are more difficult for them.
- The Internet can bridge theory and real world experiences through different sites available online.
- Online classes offer opportunities for students to be more active in their learning.
- Students are engaged in higher-order learning skills like problem solving and gathering information.
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In a study by Maki et al. (2000), young university students learned better in an online class than their counterparts in a face-to-face class. Students were given pre-and post-tests and the scores were twice as high for the online learners.

This study was conducted over a number of semesters. However, the online learners consistently expressed less satisfaction in the course than the face-to-face learners (as cited in Moore & Kearsley, 2012). In a report by Simonson (2007), the U.S. Department of Education's Office of Postsecondary Education identified "Good Practices" and "Red Flags" in teaching and learning in online classes. For the purposes of this study, some positive indicators were:

- **The regular faculty are actively involved in course design;**
- **There is 24/7 technology support;**
- **Evaluation of distance education courses and programs are used for continuous improvement; and**
- **Input from faculty and students are used for program improvement. (p. vii)**

**Some red flags were identified as:**

- **There are two course evaluation systems—one for traditional and one for distance education;**
- **There are a large number of distant students who drop out; and**
- **There are many complaints from distance students. (p. viii)**

**Quality of the online course is also a concern. Liu (2005) also described two issues of online courses: quality and student persistence. She stated that the University of Florida in the fall of 1998 had withdrawal rates almost twice as high for online classes compared to the same course offered face-to-face. Adult learners are less likely to drop out when they are satisfied with the course and when it is relevant to their own lives (Park & Choi, 2009).**

**According to Keller (1987) allowing learners to choose learning strategies and methods bring satisfaction and relevance to online learning. "Online learners can easily lose motivation unless the course is designed to stimulate their active participation and interaction and meet their expectations" (as cited in Park & Choi, 2009, p. 215).**

**There are more issues about online courses that persist about quality and perception. A number of studies have shown that even though online and face-to-face classes are comparable, online courses are still perceived as inferior (Pribesh, Dickinson, & Bucher, 2006). Critics seem to hold online education to a higher standard than face-to-face classes (Tucker & Hodge, 2004). Tabs (2003) reports 26% of "US postsecondary schools feel that concerns about course quality are keeping them from either starting or expanding their distance education course offerings" (as cited in Liu, 2005, p. 361). Furthermore, Rohleder et al. (2008) report that the negative evaluations of online learning were:**

- **Technical problems**
- **Challenges of communicating effectively, and**
- **A need for more face-to-face interactions**

**According to a study by Hara and Kling (1999) students' frustrations with an online class were:**

- **"(1) lack of prompt feedback from instructors,**
- **(2) ambiguous instructions for assignments, and**
- **(3) technical problems" (as cited in Moore & Kearsley, 2012, p. 164).**

**In another study conducted by Frey, Alman, Barron and Steffens (2004) comments from students about a new online degree program were categorized into five issues:**

- **program**
- **course**
- **communication**
- **on-campus orientation, and**
- **technology.**

Overall, students expressed satisfaction about the program. Thirty-six students said they valued the program's convenience and flexibility and most participants expressed the degree would not be attainable in a face-to-face class. Students offered suggestions to improve the course. Some of their recommendations were to reduce student work-load, establish a consistent time when faculty would respond to email, provide more feedback and define a clear grading criteria. Students' comments concerning technology included a peer-support discussion board for questions and answers and faculty using the same style in the software management system for every course.

Comfort with technology is a primary factor in determining satisfaction and success in an online course (Moore and Kearsely, 2012). The inability to use technology properly can affect students' experience in a negative way resulting in increased frustration and resistance to online classes.

The ability to communicate effectively online is a concern for the instructor. Moore and Kearsley (2012) cite two challenges for the online instructor. One is that the instructor does not know how the students react to what they have written. "Students are generally more defensive when taking a course from an unseen instructor than they would be in a conventional class, but most are unlikely to express this anxiety" (p. 127). Another is that on-line teachers learn "on the job" and by "trial and error". According to Johnson and Brescia (2006) "Instructors need to receive focused training and be given opportunities to practice using the relevant technologies before they face students who are relying on them for instruction" (p. 71).

Bangert (2006) states that quality online learning is in question as many universities and community colleges begin offering classes with little or no professional development for faculty as to best practices in online delivery.

Other issues dealing with communicating in online classes are social isolation and a lack of community. Learning through online classes is both a social and individual process (Nevgi, Virtanin & Niemi, 2006). According to Abrami & Burnes (1996) social isolation contributes to weaknesses in online learning. They report online students experience few opportunities to interact with the instructor and other students to discuss assignments and concerns about their learning. Being physically separated may have an effect on their perception of being detached, which in turn, affects learning (as cited in Liu, 2005). Liu (2005) acknowledged the sense of community in a classroom that brings with it a feeling of belonging and trust is often nonexistent in an online class. She also affirmed that social intellectual isolation might be the biggest detriment to online class delivery. For online classes the challenge for many instructors becomes knowing about all the experiences, responsibilities, and learning styles of the students in the course (Johnson & Brescia, 2006). As a result the establishment of community, an essential part of students' experience in classroom learning may be difficult to establish for the online instructor.

## **ASSESSMENT OF ONLINE CLASSES**

Assessment is essential for any online course and program. "Assessment is a key component of all educational programs; used properly it can yield valuable information for teachers, student and administrators" (Institute for Social Research, 2004, p. 1). There are summative assessments designed especially for online learning. Pike (2004) describes one type of summative assessment designed especially for online classes. SIR II from ETS measures eight dimensions and gives instructors feedback at the end of the semester. The eight measures include:

- Resources
- Communication
- Faculty-student interaction
- Assignments, grading, and exams
- Instructional methods and materials
- Course outcomes
- Student effort & involvement, and
- Course difficulty, workload and pace

Summative assessments, like the SIR II, are good measures of assessments for online classes and when taken at the end of the course give instructors important feedback. This feedback can be helpful for their next class but not for the students currently enrolled.

Formative assessment, used extensively in K-12 classrooms, is given during the learning process and gives the teacher the opportunity to adjust and alter teaching practices. Formative assessment is used to improve student learning by improving the instructional practices of teachers (Dunn & Mulvenon, 2009). They conclude that research has demonstrated "that the use of formative assessment facilitates improvement in instructional practices, identifies 'gaps' in the curriculum, and contributes to increased student performance" (p.1). In an analysis of over 250 studies of formative assessment, Black & William (1998) revealed "feedback produced significant benefits in learning and achievement across all content areas, knowledge and skill types and levels of education" (as cited in Nicol & Macfarlane-Dick, 2006, p. 204).

There are several definitions of formative assessment. Bloom, et al. (1971) described formative assessment as "the process of curriculum construction, teaching, and learning for the purpose of improving any of these three processes" (as cited in Pryor and Crossouard, 2008, p. 117). According to Popham (2008) formative assessment is a "planned process during which the teacher or students use assessment-based evidence to adjust ongoing learning and instruction" (as cited in Dunn and Mulvenon, 2009, p. 2).

A formative assessment model created for higher education by Melnik and Allen at the University of Washington's Biology Learning Resource Center is called Small Groups Instructional Diagnosis (SGID) (Coffman, 1998).

Coffman goes on to relate that SGID is a technique, also called "group interviews", for face-to-face classrooms where students use group consensus for feedback about what they like about the class. SGID uses open-ended questions usually at mid semester and is administered by a facilitator who asks students what they like about the course and what suggestions they have to improve it.

This information is shared with the instructor giving them a chance to adjust their teaching mid-way through the course.

eFACT was designed like the SGID to briefly shift the power to students at mid-semester to reflect on their own learning and give that feedback to the instructor so that he/she is able to change or alter methods and strategies to facilitate the learning process. According to Pryor and Crossouard (2008), an educator is also a learner so they need to make themselves vulnerable to student critiques. eFACT is a process where teachers as learners seek to understand the methods and strategies used in an online course that helps and/or hinders student learning. Going directly to the student for anonymous feedback at mid-semester is a powerful tool that can give online instructors detailed information concerning student learning.

## **METHOD**

A pilot program began in the fall of 2010 for four instructors of seven online classes in a mid-western university in the United States to receive input about their course midway through the semester. Two of the classes were graduate level and five were undergraduate classes. To ensure that the information obtained was not used for evaluation of faculty, eFACT was administered by faculty for faculty. Faculty, already trained as consultants for Formative Assessment of Classroom Teaching designed for face-to-face classes, volunteered to be consultants for the new online eFACT. The eFACT was performed mid-semester after students had received a grade but with enough time in the semester left for potential changes. The process began when the consultant contacted the online instructor who had volunteered for the study by phone or e-mail. Together they set up a time-line, usually 5-7 days, for the collection of student data.

The instructor added the consultant to the class as a student giving them full access to students' e-mails. This was accomplished through the university adopted course management system Blackboard. The instructor then e-mailed his/her students and let them know they would be contacted by e-mail from the consultant (naming the consultant) and encouraged them to reflect and respond to the questions about the online class.

The consultant emailed the students outlining the procedure and assured students that communication with the consultant was confidential. The students were told that their instructor would get the compiled feedback and that all feedback would remain anonymous. The students were asked to spend about 10 minutes answering the following questions and then e-mail their responses to the consultant by a certain date, usually five days. The three questions were:

- What helps your learning in this class?
- What hinders your learning in this class?
- What suggestions do you have for this class?

Midway through the five days, the consultant emailed the class again encouraging them to respond to the first email. The consultant compiled the students' responses and e-mailed them to the students with instructions to read the list and make further comments, if needed. After collection of the data, the consultant emailed the instructor to delete them from the class. As with the SGID, after data had been collected and compiled the consultant met with the online instructor and gave him/her the compiled feedback. The consultant neither evaluated nor critiqued the faculty member or student feedback, but did instruct the faculty member to discuss the results with their students and thank them for their participation. The instructor then decided what, if any, changes needed to be made for increased student learning.

## **FINDINGS**

In five online undergraduate classes and two graduate classes from three different colleges, instructors received useful information on student learning in their online classes. Fifty-four students responded to the e-mail. Most students were respectful and generous with their comments; however, some did take the opportunity to vent their frustrations. Students did not seem to have any apprehension about e-mailing the consultant their thoughts about their learning in the online class. Seven of the fifty-four students thanked the consultant in their e-mail for the ability to respond to the questions.

Technically speaking, everything in this pilot went as planned. However, in the seven online classes, there was no feedback from the students after emailing them the compiled responses. Even though this step is used successfully in face-to-face classes for consensus, it may not be a necessary step in online classes.

Since research shows it is difficult to establish a sense of community in an online class because there are few if any face-to-face interactions, students may feel uncomfortable responding to other students' feedback.

In accordance with the research of Johnson and Brescis (2006) most of the feedback centered on the online delivery format and not the discipline of the course. Only one student commented that the course discipline had always been a struggle for her.

Student responses to what helped their learning centered around the following: availability of the instructor, detailed instructions for assignments, posting to the Discussion Board on Blackboard, audio-lectures, instruction on Power Point, Internet links and videos.

Students' feedback included the following comments:

- (The instructor was) very specific in what is expected, easy to contact and responds in a VERY timely fashion.
- The discussion board has been very helpful along with the examples given.
- The lectures and the Power Points helped me learn in this class. After reading the chapters it was nice to hear examples and watch interesting videos about the topics we were talking about to make the understanding of the material easier.
- The notes and directions for class assignments are detailed and easy to follow.
- (The instructor) was available by phone and email anytime I had questions.
- I enjoy watching the videos, lectures, and reading the many articles about our topics instead of having a textbook. I think I learn better this way.
- The audio streams help immensely in learning in this class. The links help to learn more about the issue. The discussion board helped to put what you learned into words.

Students indicated that other tools that facilitated their learning were using Office Chat and posting of examples on Blackboard. Students commented about how online classes allowed them to proceed at their own pace that fit their lifestyle and helped their learning. One student commented;

*"I'm able to go at a pace that fits my lifestyle, for the most part..."*

Another student said;

*"Most of us take the online classes due to work schedules-in my case three jobs and I am a single mother."*

Hindrances to learning had more to do with the nature of online classes more than teaching strategies. Students' responses overwhelmingly talked about the lack of personal contact with classmates and teachers.

- Lack of interaction with the teacher. No face-to-face interaction with teachers and classmates.

- I wish I had been able to take this class *in class* (face-to-face) instead of online.
- I feel that it would be easier for me if I had personal contact with my teacher and classmates.
- The hindrance in this class would be face-to-face time...there is not a replacement for actual face-to-face discussions.
- The hindrance in this class would be the lack of face-to-face time. Though it is nice on the Internet because it fits in my schedule much easier, and the discussion board is a great place for bouncing off ideas, there is not replacement for actual face-to-face discussions.
- The online nature of this course makes communication difficult at times.
- Distance education is difficult in general.

Other less common responses were technical problems that interfered with learning, using more than one textbook and not having lectures or test reviews. Changes in the syllabus were confusing to some students and having information spread out over the different sections of Blackboard made it difficult to locate all course materials and assignments. Time also was a hindrance as several students commented about the lack of time to put towards their work. This was especially true with the graduate classes. Students reported other responsibilities such as working full time and being a parent were hindrances to learning.

- The only thing that I feel hinders my learning in class is finding adequate time to put towards my work due to working full-time as well.
- Changes in the syllabus confuse me sometimes.
- Having to look in numerous locations, different portals to see what is going on in class.
- Nothing in the class hinders learning except for the computer problems I've had this semester.
- Technology is fantastic but sometimes it gets in the way.

Suggestions for the online classes included upgrading the Blackboard site, more time for homework and projects, detailed assignments and more communication from the instructor. Other individuals had concerns like retrieving an assignment in Podcast, having more assignments and less paper writing, providing a "hard" copy of the book, and giving students a voice in what is being learned. Sixteen students commented that no improvement was necessary or that they didn't have any suggestions at the time.

All four instructors said the information they gained was useful in their teaching an online course. One instructor believed the eFACT was a way for students to provide meaningful information to the instructor. Another instructor commented, "Some of the responses involved wanting resources that were already available to the students. This shows the importance of repeatedly reminding students of all of the resources available. Some of the suggestions I could put into effect immediately. Other suggestions were not possible to implement, but it was important to explain to students the reasons why not. Each suggestion was addressed in the Blackboard announcements. Completing the eFACT was insightful and beneficial to the ongoing communication with the students." Instructors were able to make course changes as a result of the eFACT at mid-semester. They included:

*online assignments which were previously only listed online were included in the assignment sheet with the textbook assignments;*



Additional instructor content was created for the course; tabs were created to give students direct access to course resources; and creating assignments with directions to optional resources so students knew where to find them when needed. But of equal importance was the continuation of the positive actions that instructors had already created for their courses.

## CONCLUSIONS

eFACT is a power shift at mid-semester giving instructors the opportunity to adjust their teaching methods for the students enrolled in their class. Student learning in this study was helped by the use of email, videos, audio-lectures, office chat and discussion board.

These features of online courses appear to make the class more social and interactive as in a face-to-face setting. Students may feel less isolated when they interact with the instructor and students through these tools.

These interactions may give them a sense of community and a feeling of belonging both of which helps student learning.

Most of the responses regarding hindrances to student learning had to do with perceived or real communication issues with the instructor and classmates.

Students commented that face-to-face discussions were more valuable than discussion board. Although often citing the "nature" of the online class, the social aspect of learning seemed to be missing for many of the students.

Also, students' knowledge of technology seemed to interfere with learning as students had difficulty finding assignments in more than one place in Blackboard and others mentioned technical/computer problems in general. Other hindrances included outside influences like a full time job and family.

There are obvious challenges with online classes for the instructor and the student. As more and more classes and programs are offered online, quality of the delivery of those courses should be addressed. As more instructors accept responsibility for delivering online courses, new instruments and assessments need to be developed to give instructors accurate feedback about their teaching methods (Bangert, 2006). Open-ended questions at mid-semester can help elicit detailed perceptions of student learning. Assessment measures like eFACT can affect the quality of the online course by giving instructors immediate feedback as students reflect on their learning in the class and allowing the instructors to make changes right away.

## BIODATA and CONTACT ADDRESSES of the AUTHORS



**Gina G. BERRIDGE** is an assistant professor in Teacher Education in the Pott College of Science and Engineering at the University of Southern Indiana in Evansville. She teaches graduate and undergraduate courses in researched based literacy methods and practices. She consults with K-12 school districts and adult educators in the U.S. She received her Ph.D. in Educational Leadership, Administration and Foundations. She is a past K-12 teacher and administrator serving in Indiana as a Superintendent of schools, Assistant Superintendent of Business, Director of Support Services and Director of an Alternative High School. She is a former Assistant Principal for an elementary school and a Reading Recovery Teacher for 1st through 8th grades.

**Gina G. BERRIDGE, Ph.D.**  
Assistant Professor, Teacher Education  
University of Southern Indiana  
8600 University Blvd.  
Evansville, IN 47712, USA  
Phone: +812 465-7043, Fax: (812) 4645-1029  
Email: [ggberridge@usi.edu](mailto:ggberridge@usi.edu)



**Samantha PENNEY** is Director of Distance Education at Indiana State University in Terre Haute. She has worked for over eight years in the education industry and has experience in distance education, online education, and instructional technology. She has management and teaching experience in both career and higher education fields. Other areas of experience are distance education policy development and implementation, faculty development and training, administered learning management systems and various software programs and instructional design. She has a M.A.Ed from Austin Peay State University in the area of Instructional Technology and post graduate work at Virginia Polytechnic Institute and State University. She also has a M.A. in Mass Communications from the University of South Dakota and a BA in Journalism from South Dakota State University.

**Samantha PENNEY**  
Director of Distance Education  
Indiana State University  
200 N. Seventh Street  
Terre Haute, Indiana 47809, USA  
Phone: +812-237-8479, Fax: 812-237-4490  
Email: [samantha.penney@indstate.edu](mailto:samantha.penney@indstate.edu)



**Judith A. WELLS** is the Mathematics Department coordinator of instructors in the Pott College of Science and Engineering at the University of Southern Indiana in Evansville, IN. As coordinator she serves on the department search committees for new instructors and when instructors are hired she is responsible for their department orientation and is a mentor the first year. As coordinator she is a resource person for all math instructors and is responsible for departmental exams for Intermediate and College Algebra. She teaches mathematics courses online and face-to-face at the university. She is the USI Mathematics Department liaison for the College Achievement Program (CAP) with area high schools. She is an academic advisor in the PLUSS (Pathways Leading to Undergraduate Success in the Sciences) Program and teaches a seminar class for PLUSS students.

**Judy WELLS**  
Instructor of Mathematics University of Southern Indiana  
8600 University Blvd. Evansville, IN 47712 USA  
Phone: +812 465-1631  
Fax: (812) 465-1029  
Email: [jwells@usi.edu](mailto:jwells@usi.edu)

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