INTRODUCTION

Since societal problems such as unemployment rate, financial bankruptcy, poverty, and family struggles often link back to uncompleted college education, it is critical to examine student retention as well as the role of higher education institutions in retaining students (Isakova, Nazarbekova, & Tiulegenov, 2011). Individuals without a college degree have fewer opportunities to make money, establish connections for a career path, and lead happy and healthy lives. For example, among people married between 1990 and 1994, divorce rates are twice as high for those who did not attend college compare to those who did attend (Lloyd, 2014). In addition, people with only a high school diploma are nearly twice as likely to be in poorer health relative to college graduates (Lloyd, 2014; Unal, 2013).

Many societal problems associated with lack of education warrant investigation into means of improving retention. In addition, active coursework participation is pivotal to student success, retention and completion. Davies and Graff (2005, p.663) report that “students who failed in one or more modules, did interact less frequently than students who achieved passing grades.” In fact, learning is improved when learners actively participate in the course (Bento & Schuster, 2003; Hrastinski, 2009).

Increased participation in part requires preparing students for course requirements prior to entering the course. In the marketing literature, researchers argue that customers need to know what the service requirements are (Kellogg, Youngdahl, & Bowen, 1997), and that participation will decrease due to insufficient readiness (Larsson & Bowen, 1989; Bettencourt, Ostrom, Brown, & Roundtree, 2002; Dellande, Gilly, & Graham, 2004). Similarly, in educational services, students need to be informed and prepared to face course requirements.

Given its importance, we focus on student readiness factors, their effect on student participation and subsequent student outcomes. In particular, this research aims to explore: (1) the interplay between student readiness and student participation, (2) the effect of participation on grade and satisfaction; and (3) the significance of grade and satisfaction for student retention. The empirical study undertaken to test these relationships combines self-report survey data with “objective” data about student behavior in online courses, and provides general support for the conceptual model. The findings, along with implications and limitations, are discussed.
THEORETICAL FRAMEWORK AND CONCEPTUAL MODEL

Antecedents of Participation

Customer participation has been defined as “the degree to which the customer is involved in producing and delivering the service” (Dabholkar, 1990, P. 484). Customer participation has been one of the significant themes in services marketing research for the past 40 years (e.g. Lovelock & Young, 1979; Bitner, Faranda, Hubbert, & Zeithaml, 1997; Grönroos, 2008; Mustak, Jaakkola, & Halinen, 2013). Over these decades, important changes in both the marketplace and marketing thought suggest that customers are integral co-creators of services and that customer participation has profound implications for the ends that marketers and customers seek to achieve (Wikström, 1996; Prahalad & Ramaswamy, 2004; Heinonen et al., 2010; Mustak et al., 2013). In fact, the co-creative roles of customers have compelled researchers to view them as “partial employees” of the organization. Building on the original users of the term (e.g., Lovelock & Young, 1979; Mills, Chase, & Margulies, 1983), Halbesleben & Stoutner (2013) and Manolis, Meamber, Winsor, and Brooks (2001) recommend that service firms can increase efficiency and effectiveness by co-opting customers and socializing, educating and empowering them as partial employees.

Similarly, in educational services, researchers argue that student participation is critical to satisfactory education outcomes (Hew & Cheung, 2012; Palincsar & Herrenkohl, 2002). Instructors are increasingly adopting a facilitator role and leveraging student participation for course delivery. For example, lecture courses are increasingly implementing group work as an important means of increasing participation. Student participation emphasizes the negotiation of meaning and ideas between participants (Dillenbourg, 1999; Palincsar & Herrenkohl, 2002; Roschelle, 1992; Roschelle & Teasley, 1995; Stahl, Koschmann, & Suthers, 2006). Given the importance of participation in higher education, the study of its antecedents is critical.

Research shows that customers may resist performing a new activity due to the discomfort in dealing with new tasks (Parasuraman, 2000; Lin & Hsieh, 2006). Readiness has the potential to decrease the awkwardness in dealing with new tasks by increasing customer propensity to embrace participation in services that assist them in accomplishing their goals (Parasuraman, 2000). Participation will occur more frequently and extensively if customers are ready. Though extensive research has been done on customer readiness, this construct has not been understood in relation with participation (Meuter, Bitner, Ostrom, & Brown, 2005; Dellande, et al., 2004; Bettencourt et al., 2002).

Scholars have conceptualized customer readiness as a construct consisting of role clarity, ability and motivation (Meuter et al., 2005). Role clarity refers to customer awareness of their role, what they should do, and their knowledge of what to do. Easingwood (1986) reports that 89% of firms have problems with employee or customer confusion over their roles. Customer confusion is due to the perceived uncertainty and lack of role clarity. Scholars argue that customers need to be informed about what the service requirements are (Kellogg, et al., 1997, Yi & Gong, 2013; Yi, 2014). Customer participation will decrease when customers do not have a sufficiently developed understanding of their role in the service process (Larsson & Bowen, 1989). Similarly, research in higher education suggests that students generate relatively more discussion messages (e.g., comments, questions, other posts) if they receive, comprehend and follow clear guidelines on how to do so (Choi, Land, & Turgeon, 2005).

Additionally, when customers have the ability (i.e., necessary skills) to complete a task, they are more likely to participate. Even though having the capacity or ability to complete a task is not the same as actually doing it, possessing the required skills makes participation a more likely event. According to Seltzer (1983), individuals will not become involved in an activity when they believe that they are unable to perform a task required by that activity. Consequently, ability is a critical component of customer readiness. Bettencourt et al. (2002) show that, in knowledge intensive business services, successful participation is a
consequence of customers having the necessary abilities. For example, research in higher education suggests that student participation in online discussion is highly dependent on their ability to come up with constructive comments (e.g., Arend, 2009; Chapman, Storberg-Walker, & Stone, 2008; Fung, 2004; Dennen, 2005; Guzdial & Turns, 2000; Khan, 2005).

When role clarity and ability is joined by motivation, the necessary and sufficient conditions for customer participation may exist. Customer ability and role clarity do not necessarily lead to participation. In fact, customers might not be sufficiently motivated to take action toward a service requirement. Research shows the tendency to perform required tasks depends on customer motivation in the production of services (Larsson & Bowen, 1989; Vroom, 1964). Drawing on prior findings, we hypothesize that student role clarity, ability, and motivation are conducive to student participation:

\[ H_{1a} \]: Student role clarity is positively associated with student participation

\[ H_{1b} \]: Student ability is positively associated with student participation

\[ H_{1c} \]: Student motivation is positively associated with student participation

The sequence of role clarity, ability and motivation in developing customer readiness has also received scholarly attention. Bowers, Martin, and Luker (1990, p.62) propose a three-part sequence to improve participation: “Step 1: Define the customer’s job. Step 2: Train the customer to perform his or her job. Step 3: Retain the valuable customer by rewarding the customer for a job well done.” Essentially, they argue that role clarity supports ability, which in turn fuels motivation. In hospital settings, Dellande et al. (2004) find that patients who are not clear about their role in the service process are unable to acquire the needed skills to carry out the tasks required of them. Moreover, patients will become frustrated and will lose their motivation if they are not able to perform expected behaviors. Accordingly, we expect (1) students’ role clarity to enhance their ability to perform the expected tasks; and (2) their enhanced ability to increase the motivation underlying their performance.

\[ H_{2a} \]: The higher the student role clarity, the more able the student to perform the expected tasks.

\[ H_{2b} \]: The higher the student ability, the more motivated the student to perform the expected tasks.

Consequences of Participation

Learning outcome depends on interaction with the content and with others (i.e., instructor and peers) within the online learning environment (see e.g. Duffy & Kirkley, 2003; Anderson, 2003; Lee & Gibson, 2003). Education literature views interaction with the content and with others as student participation (Hew & Cheung, 2012; Palincsar & Herrenkohl, 2002; Moore, 1989). Student participation facilitates the negotiation of meaning and ideas with others (Stahl, Koschmann, & Suthers, 2006), joint construction of knowledge, and shared cognitive understanding of materials (Dillenbourg, 1999; Ploetzner, Dillenbourg, Preier, & Traum, 1999). Participation enables students to achieve a deeper understanding of the course content (Anderson, 2003). Thus, we expect learning outcome to be associated with student participation.

Academic grading in the United States is mostly in the form of letters ranging from A to F. Grade serves as a formal evaluation of student work and determines the level of work proficiency. Criteria for grading is based on instructional design; generally defined as a developmental instructional system and based in learning and instructional theory (Gros, 1997). Grades are the most predominant measure of student learning outcome (Hiltz & Wellman, 1997; Dumont, 1996). As such, we hypothesize:

\[ H_{3} \]: Student participation is positively associated with student grades.

Customer Satisfaction is “a customer’s post-consumption evaluation of a product or service” (Mittal & Frennea, 2010, p. 3) that occurs if the perceived performance of a product or service meets or goes beyond his or her prior expectations (e.g., Bearden & Teel, 1983; Oliver, 2010). Customer satisfaction has been a central construct in marketing literature (e.g., Luo & Homburg, 2007; Szymanski &
Henard, 2001). Previous research shows that customer satisfaction positively influences important customer outcomes such as customer loyalty and willingness to pay (Seiders, Voss, Grewal, & Godfrey, 2005; Homburg, Koschatte, & Hoyer, 2005). Most firms contend that managing customer satisfaction is a “strategic imperative” (Mittal & Kamakura, 2001, p. 131) and make substantial investments to pursue customer satisfaction (Simester, Hauser, Wernerfelt, & Rust, 2000; Yu, Kim, Yoon, & Park, 2015). To the extent that these imperatives also apply to institutions of higher education, they ought to pursue student satisfaction as one of their priorities.

Active participation by customers can reveal their needs and expectations to service providers, enabling the two parties to increase the co-created value (Mustak et al., 2013). In higher education, if students actively participate in the course, instructors will be more likely to recognize their weaknesses and strengths and have the opportunity to take corrective action. Throughout the participation process, the interactions between the service provider and the customer will improve and reinforce the understanding of customer needs and expectations, eventually contributing to customer satisfaction (Auh, Bell, McLeod, & Shih, 2007). Research shows that participation, especially in high-involvement service contexts where customers spend considerable time and effort, often leads to higher customer satisfaction (Bloemer & Ruyter, 1999). As such, we hypothesize:

$$H_4:$$ Student participation is positively associated with student satisfaction.

Declining enrollment is an issue in higher education institutions (Hersh & Merrow, 2015), and increased attrition creates a plethora of problems for all stakeholders (Tinto 1993). Research shows that attrition rates in online courses are higher than face-to-face courses in part because it is relatively more difficult to achieve student satisfaction in online courses (Waugh & Su-Searle, 2014). One of the critical factors that can help retain customers in both face-to-face and online education is customer satisfaction (see e.g. Petruzzellis, D’Uggento, & Romanazzi, 2006). Greater service satisfaction engenders greater retention rates (Siu, Zhang, & Yau, 2013; Han & Hyun, 2015). The association between satisfaction and retention is clearly supported in marketing literature (Oliver, 1980; Oliver & Swan, 1989; Jones, Mothersbaugh, & Beatty, 2000; Siu et al., 2013; Han & Hyun, 2015). This finding is also echoed in higher education literature (e.g., Hoyt, 1999; Tinto, 1987; Lau, 2003). In online courses, for instance, students who are satisfied with their experience are more likely to take another online course (Roberts-DeGennaro & Clapp, 2005). Drawing on these arguments, we hypothesize:

$$H_5:$$ Student satisfaction is positively associated with student retention.

In addition to their mediated relationship, motivation and retention are linked directly, as well. Students should be motivated to continue their enrollment. In fact, “To be motivated means to be moved to do something” (Ryan & Deci, 2000a, p. 54). In other words, motivation is an unceasing requirement if students are to stay in the program. Similarly, in the health care context, researchers have observed that patients who exhibit higher treatment motivation stay and successfully complete longer treatment plans (Stevens, Verdejo-Garcia, Roeyers, Goudriaan, & Vanderplasschen, 2015). Since retention is ultimately dependent on the individual student, the level of his or her motivation is critical (Lau, 2003). Thus, we hypothesis:

$$H_6:$$ Student motivation is positively associated with student retention.

Empowering student to achieve better grades is an effective means of retaining them. In fact, many scholars consider grades to serve as a key partial mediator of the relationship between participation and retention (Wetzel, O’Toole, & Peterson, 1999; Konyu-Fogel & Grossnickle, 2013). Unsatisfactory grades discourage students from returning to school for another year or even for another course (Lau, 2003). Thus, we hypothesize:

$$H_7:$$ Student grades are positively associated with student retention.

**METHODOLOGY**

A combination of archival and survey data is used to empirically test the proposed relationships in this study. The participants in this research were students over the age of 18 at
FIGURE 1: The Conceptual Model

Retention Rate

Satisfaction

Grade

Participation

Customer Readiness

Role Clarity

Ability

Motivation

H1a

H1b

H1c

H2a

H2b

H3

H4

H5

H6

H7
a public university situated in Southwest United States. During two academic semesters, students enrolled in online courses were asked to complete an online questionnaire that would generate the survey portion of the data (i.e., role clarity, ability, motivation, satisfaction, and retention). The remainder of the data was generated by tracking student inputs and academic performance in the respective courses using the resources of the university’s Center for Online Learning, Teaching and Technology. A total of 216 responses were collected from 6 online courses in fall 2014, and 243 responses were collected from 11 online courses in fall 2015. Of these, 331 responses were sufficiently complete and, thus, retained for analysis.

To increase the validity and reliability of the results of this study, all the survey items were adapted from previously validated scales (Straub, 1989). An expert panel was formed with the help of five faculty and Ph.D. students to validate the content of the scale items (role clarity, ability, and motivation), which were borrowed from past research and adjusted to fit the college education context.

Student readiness items were measured on a 7 point Likert scale that ranged from “Strongly Disagree” to “Strongly Agree;” while satisfaction and retention items were measured on 7-point semantic differential scales (See Table 1). Student participation and grades were represented by the actual student role in the respective courses and the actual grade they earned. Specifically, participation was captured by tracking a variety of student inputs within the online course environments (i.e., Blackboard). These inputs included (1) hits: the number of times students logged in the course and clicked on different content areas within the course; (2) posts: the number of messages students posted in online discussions forums; (3) length: the average length of the posts in online discussions forums; and (4) time: the amount of time spent within the online course.

DATA ANALYSIS

Instrument Validation

Partial Least Squares (PLS) SEM was used to analyze the data. The confirmatory factor analysis output presented in Table 1 demonstrates an acceptable underlying structure across the measures (i.e., pattern of main and cross loadings). Next, the measurement scales were checked for convergent validity, discriminant validity, and reliability. All estimated loadings were above 0.6. Also, as shown in Table 1, the average variance extracted (AVE) exceeded the threshold of 0.5 for all the constructs (Fornell & Larcker, 1981). These provide support for convergent validity. To examine discriminant validity, the AVE for each construct was compared to the squared correlations of that construct with other constructs (Hair, Ringle, & Sarstedt, 2011). Since AVEs were larger than squared inter-construct correlations, discriminant validity is supported (See Table 2). As shown in Table 1, Cronbach’s alpha and composite reliability for all the constructs were above the threshold of 0.7 (Chin & Gopal, 1995).

Structural Model and Hypothesis Testing

PLS SEM was used to test the proposed model of relationships. PLS entails a mathematically rigorous computation to determine the optional linear relationships between latent (theoretical) variables. The PLS-SEM is used because of its suitability for relatively small sample size, focus on prediction (Reinartz, Haenlein, & Henseler, 2009), and the complexity of the model.

H1a, H1b, and H1c hypothesized the positive effects of student readiness constructs (i.e., role clarity, ability and motivation) on participation. The results support H1a (β=.09; p<.05) and H1b (β=.18; p<.01), but H1c is not supported (β=.03; p=.35). H2a and H2b hypothesized a sequence of effects among student readiness constructs. H2a is supported as role clarity is positively and significantly associated with ability (β=.52; p<.01). H2b is also supported with ability and motivation being positively and significantly associated (β=.49; p<.01). H3 predicted the positive effect of participation on grades. Results provide support for that hypothesis (β=.38; p<.01). Consistent with H4, the positive effect of participation on satisfaction was also statistically significant (β=.14; p<.01). H5, H6, and H7 pertained to the positive effects of satisfaction, motivation and grades on student retention, respectively. In support of H4 and H5, satisfaction (β=.47; p<.01) and grades (β=.52;
<table>
<thead>
<tr>
<th>Scale Items</th>
<th>Loading</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Role clarity</strong> (AVE=.64; CR=.87; α=.81)</td>
<td></td>
</tr>
<tr>
<td>I feel certain about what I should do in this online course.</td>
<td>0.79</td>
</tr>
<tr>
<td>I am NOT sure what to do in this online course. (RC)</td>
<td>0.8</td>
</tr>
<tr>
<td>I know what is expected of me in this online course.</td>
<td>0.77</td>
</tr>
<tr>
<td>The process of this online course is clear to me.</td>
<td>0.82</td>
</tr>
<tr>
<td>I believe there are only vague directions regarding what I should do in this course. (RC)</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Ability</strong> (AVE=.64; CR=.90; α=.86)</td>
<td></td>
</tr>
<tr>
<td>I am fully capable of completing the requirements of this course.</td>
<td>0.83</td>
</tr>
<tr>
<td>I am confident in my ability to complete this course.</td>
<td>0.86</td>
</tr>
<tr>
<td>This course is well within the scope of my abilities.</td>
<td>0.87</td>
</tr>
<tr>
<td>I do NOT feel I am qualified to take this course. (RC)</td>
<td>0.69</td>
</tr>
<tr>
<td>My past experiences increase my confidence that I will be able to successfully complete the requirements of this course.</td>
<td>0.75</td>
</tr>
<tr>
<td>In total, this course involves things that are more difficult than I am capable. (RC)</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Extrinsic motivation</strong> (AVE=.59; CR=.93; α=.91) for 2nd order motivation construct.</td>
<td></td>
</tr>
<tr>
<td>Taking this course online would provide me with added convenience.</td>
<td>0.8</td>
</tr>
<tr>
<td>Taking this course online would allow me to study from wherever I am.</td>
<td>0.84</td>
</tr>
<tr>
<td>Taking this course online would allow me to study whenever I want.</td>
<td>0.81</td>
</tr>
<tr>
<td>Taking this course online would provide me more control over the studying process.</td>
<td>0.86</td>
</tr>
<tr>
<td><strong>Intrinsic motivation</strong> (AVE=.59; CR=.93; α=.91) for 2nd order motivation construct.</td>
<td></td>
</tr>
<tr>
<td>Taking this course online would provide me with personal feelings of worthwhile accomplishment.</td>
<td>0.88</td>
</tr>
<tr>
<td>Taking this course online would provide me with feelings of enjoyment from using the technology.</td>
<td>0.89</td>
</tr>
<tr>
<td>Taking this course online would provide me with feelings of independence.</td>
<td>0.88</td>
</tr>
<tr>
<td>Taking this course online would allow me to feel innovative in how I interact with others in the course.</td>
<td>0.87</td>
</tr>
<tr>
<td>Taking this course online would allow me to have increased confidence in my skills.</td>
<td>0.87</td>
</tr>
<tr>
<td><strong>Participation</strong></td>
<td></td>
</tr>
<tr>
<td># of posts</td>
<td>0.63</td>
</tr>
<tr>
<td>Time spent</td>
<td>0.84</td>
</tr>
<tr>
<td># of hits</td>
<td>N/A</td>
</tr>
<tr>
<td>Average post length</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Satisfaction</strong> (AVE=.92; CR=.97; α=.96)</td>
<td></td>
</tr>
<tr>
<td>Dissatisfied…Satisfied</td>
<td>0.97</td>
</tr>
<tr>
<td>Displeased…Pleased</td>
<td>0.96</td>
</tr>
<tr>
<td>Unfavorable…Favorable</td>
<td>0.95</td>
</tr>
<tr>
<td><strong>Retention</strong> (AVE=.90; CR=.97; α=.96)</td>
<td></td>
</tr>
<tr>
<td>Unlikely…Likely</td>
<td>0.96</td>
</tr>
<tr>
<td>Very improbable…Very probable</td>
<td>0.96</td>
</tr>
<tr>
<td>Impossible…Possible</td>
<td>0.93</td>
</tr>
<tr>
<td>No chance…Certain</td>
<td>0.95</td>
</tr>
</tbody>
</table>

* Item was deleted in the process of the analysis
p<.01) emerged as statistically significant predictors of student retention with strong effect sizes. Finally, the association between motivation and student retention was statistically significant ($\beta=.33; \ p<.01$), as well, providing support for $H_6$. Variance explained in ability, motivation, participation, satisfaction, grades, and retention as endogenous variable were .27; .27; .14; .12; .15; and .52, respectively.

**DISCUSSION AND CONCLUSION**

Student retention has deep-seated consequences for students themselves at different stages of life, for institutions of higher education, and for other stakeholders (Isakova et al., 2011; Lloyd, 2014; Unal, 2013). Indeed, many societal problems associated with lack of education warrant investigation into means of improving retention. In addition, active coursework participation is pivotal to student success, retention and completion. In this research, we turned to the role of student participation as a key component in models and theories where retention is the focal outcome construct. This paper conceptualized and empirically tested a model of relationships beginning with the effects of student readiness constructs on student participation, and continuing with the influence of student participation on student satisfaction, grades, and retention. The empirical study undertaken to test these relationships combined self-report survey data with “objective” data about student behavior in online courses, and provided general support for the conceptual model. Specifically, role clarity and ability as two student readiness constructs facilitate and boost student participation behaviors. Student participation, in turn, emerged as a determinant of student grade, and an important source of student satisfaction. These two consequences of participation (i.e., grades and satisfaction), along with motivation, explain a considerable portion of the variation in student retention.

Our findings have implications for various stakeholders such as students, institutions of higher education, and policy makers. First and foremost, students should be better informed about the role they play throughout their educational journey. If students effectively appreciate that their grades and academic progress hinge upon their own active participation in coursework, they will have stronger reasons to take actions and increase their input and engagement. Moreover, students need awareness as to the critical role that readiness plays in preparing them to participate actively and effectively. The sequence of effects among role clarity, ability and motivation, as well as the significant effects of role clarity and ability on participation are reason enough for students to familiarize themselves with their roles across different courses, thereby empowering themselves to identify and acquire the necessary skills that will facilitate and support their active participation. The ultimate benefit of such an approach to one’s education is improved academic performance and successful completion of degree requirements.
FIGURE 2: The Structural Model

H_3: .38**

H_5: .47**

H_2a: .49**

H_2b: .52**

H_6: .33**

H_1b: .09*

H_1a: .52

H_7: .52*


*P<0.05, **P<0.01, N.S. (Not Significant)
Our findings are also germane to key decision makers in institutions of higher education. Colleges and universities should embrace and apply any means (institutional culture, statements of mission, vision and objectives, strategic plans, policies pertaining to faculty and students, etc.) necessary to leverage the positive effects of student readiness and participation on student performance outcomes and subjective evaluations. They can pursue these ends in two directions: (1) inform students about their own agentic role through communication campaigns and emphasize them through instructional design; and (2) create and maintain structural factors and incentives that facilitate and reward attitudes and behaviors conducive to and reflective of student readiness and participation. With increasingly dense competition among institutions of higher education, emphasizing student readiness and engaging them as active participants in their education are no longer options, but strategic imperatives (Duncan, Miller & Jiang, 2012).

Higher education policy makers play an immense, probably the largest, role in shaping the culture of higher education, which informs the expectations, standards, performances, and evaluations of various stakeholders of higher education. Specifically, most, if not all, students have an overall understanding of what they are entitled to as students at institutions of higher education. But is every student aware of his or her responsibilities and obligations? Policy makers have the opportunity to create legal and social incentives at the macro level in order to motivate institutions of higher education as well as individual students to embrace and deploy student readiness and participation as under-appreciated, and sometimes forgotten, resources.

As is the case with all research, our findings are to be considered within limits. Firstly, our data comes from online courses exclusively. Secondly, as research on customer co-creation and participation advances, future researchers might have more effective means of capturing readiness and participation at their disposal. Lastly, future research should consider the effect of goal congruency between educators and students. The results of our study should be contextualized with respect to the differential goals of various stakeholders. For example, how do student readiness and participation unfold when students aim to secure a degree with minimal investment of time and effort, but face educators who base their course design, delivery and assessment on student learning? We hope these findings draw the attention of all related stakeholders to the critical role that students do and should play in higher education.

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