

European International University, EIU-Paris

Doctoral Thesis

Title:

Strategies and Implications for Advancing Multicultural Competency in Global Online Higher Education Environments

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EIU931373

In Partial Fulfillment of the Requirements for the Degree of

Doctor of Education (EdD)

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Date:

July 2021

Abstract

The rapid growth of online education, driven by globalization and technological advancements, has significantly impacted higher education, creating diverse and multicultural learning environments. This article explores the role of culture in shaping learner engagement within global online higher education contexts. Utilizing Hofstede's cultural dimensions theory, the study examines how socio-cultural factors influence students' online learning experiences. Through a qualitative case study approach, data was collected via virtual ethnographic methods, including interviews and observations, involving international students and instructors. The findings highlight the challenges faced by culturally diverse learners, such as communication barriers and differing educational expectations. Moreover, the study identifies effective strategies for fostering cultural responsiveness, enhancing learner engagement, and promoting collaborative learning. The research underscores the importance of integrating culturally responsive teaching practices into course design and facilitation to support diverse student populations. Policy implications for higher education institutions are discussed, emphasizing the need for institutional support in creating inclusive and culturally sensitive online learning environments. This article contributes to the ongoing discourse on multicultural education by providing actionable insights and recommendations for educators and policymakers to enhance the quality and effectiveness of global online higher education.

Introduction

Globalization and the rapid advancement of technology have significantly transformed the landscape of higher education, particularly through the proliferation of online learning platforms. This transformation has expanded access to education beyond geographical boundaries, enabling learners from diverse cultural backgrounds to engage in academic programs offered by institutions worldwide (Jieun et al., 2021; Lock et al., 2021; Salih et al., 2021). The advent of the COVID-19 pandemic further accelerated this shift, propelling online learning to the forefront as academic institutions closed physical campuses to curb the spread of the virus (Heo et al., 2021). Consequently, online education emerged as a critical modality for facilitating learning, prompting higher education institutions to adapt swiftly to support and engage a diverse and dispersed student population (Heo et al., 2021; Lock et al., 2021).

The growing diversity in online learning environments brings forth both opportunities and challenges. On one hand, the flexibility and accessibility of online education empower learners to pursue their educational goals regardless of their location. On the other hand, the multicultural nature of these environments necessitates a nuanced understanding of cultural factors that influence learner engagement and academic success (Moore, 2006). Socio-cultural elements, including beliefs, languages, value systems, and learning preferences, vary widely among learners and can significantly impact their experiences in online courses (Kahu, 2013; Yang et al., 2021). Understanding these cultural dimensions is crucial for creating inclusive and effective online learning environments.

Engaging students meaningfully in online learning environments has been a persistent challenge, with issues such as isolation and lack of a sense of belonging often cited as barriers (Bolliger & Martin, 2018). Furthermore, the reliance on technology in online classrooms introduces additional hurdles, particularly for culturally diverse learners who may have varying levels of familiarity and comfort with digital tools (Bonk et al., 2015; Kebritchi et al., 2017). As a result, online learning environments must be designed with cultural responsiveness in mind,

addressing the unique needs and expectations of culturally diverse students to enhance their engagement and overall learning experience (Watkins, 2005).

The complexity of culture in online learning environments is well-documented. Cultural underpinnings shape how learners interact with peers and instructors, influencing communication styles, participation, and engagement (Cox et al., 1991; Han et al., 2014). Despite the inseparability of culture from teaching and learning, many online learning environments are not designed through a multicultural lens, often overlooking the diverse cultural perspectives that students bring to the virtual classroom (Uzuner, 2009). Recognizing and integrating these perspectives is essential for fostering an inclusive and supportive learning environment that values and respects cultural diversity.

This study aims to explore the role of culture in online learner engagement within higher education. Drawing on Geert Hofstede's cultural dimensions theory, the research examines how socio-cultural factors influence learner engagement and identifies barriers that culturally diverse learners face in online learning environments. Hofstede's cultural framework, which includes six dimensions of culture—power distance, individualism versus collectivism, uncertainty avoidance, long-term versus short-term orientation, masculinity versus femininity, and indulgence versus restraint—provides a valuable lens for understanding cultural variations and their impact on online learning (Hofstede, 2017).

Previous research has highlighted the challenges faced by culturally diverse online learners, including difficulties in adjusting to new learning environments, communication barriers, and varying educational expectations (Chen et al., 2020; Gao, 2006; Gillet-Swan, 2017). Studies have also noted the lack of engagement in online learning environments, which can be attributed to the cultural dissonance that students experience when their cultural values and practices are not acknowledged or respected (Fain, 2019; Guilar & Loring, 2008; Keengwe et al., 2014). As the number of students enrolling in online programs continues to grow globally, there is an urgent need to address these challenges and improve learner engagement by fostering multicultural understanding and cultural responsiveness in online education.

Cultural responsiveness in online learning involves recognizing and valuing the cultural backgrounds and perspectives of all learners. It requires educators to adapt their teaching practices and course design to be inclusive of diverse cultural viewpoints, thereby creating a more engaging and supportive learning environment (Gay, 2010). This study aims to contribute to the growing body of literature on cultural responsiveness by examining how cultural factors influence online learner engagement and by providing recommendations for educators and policymakers to enhance the cultural inclusivity of online learning environments.

The research methodology employed in this study is a qualitative case study approach, utilizing virtual ethnographic methods to gather data from international students and instructors in online higher education settings. This approach allows for an in-depth exploration of the experiences and perspectives of culturally diverse learners, providing rich insights into the challenges and opportunities associated with fostering multicultural understanding in online learning environments (Crichton & Kinash, 2003). Data collection methods include interviews and observations, which enable the researcher to capture the nuanced ways in which culture influences learner engagement and interaction in the virtual classroom.

The findings of this study highlight the importance of culturally responsive teaching practices in enhancing learner engagement in online education. Key strategies identified include fostering open and inclusive communication, incorporating culturally relevant content and examples in course materials, and promoting collaborative learning activities that encourage cross-cultural interaction and understanding (Gay, 2010; Kumi-Yeboah et al., 2020). Additionally, the study underscores the need for institutional support in implementing culturally responsive practices, including professional development for instructors and the integration of cultural inclusivity into online course design and facilitation policies (Gay, 2010; Parrish & Linder-VanBerschot, 2010).

Policy implications for higher education institutions are also discussed, emphasizing the role of institutional leadership in promoting cultural inclusivity and supporting the diverse needs of online learners. Recommendations include

developing institutional policies that prioritize cultural responsiveness, providing resources and training for instructors to enhance their cultural competence, and creating supportive networks for culturally diverse students to foster a sense of belonging and community in online learning environments (Gay, 2010; Watkins, 2005).

In conclusion, this article contributes to the ongoing discourse on multicultural education by providing a comprehensive analysis of the role of culture in online learner engagement and offering practical recommendations for fostering cultural responsiveness in online higher education. By addressing the unique challenges faced by culturally diverse learners and promoting inclusive teaching practices, higher education institutions can enhance the quality and effectiveness of online learning, ultimately supporting the academic success and well-being of all students. Future research directions are also suggested, including further exploration of specific cultural dimensions in different educational contexts and the development of innovative approaches to culturally responsive online education.

Literature Review

The increasing diversity of learners in higher education necessitates a nuanced understanding of cultural factors influencing learner engagement, particularly in online learning environments. Over recent years, the global landscape of higher education has evolved dramatically, driven by technological advancements and the expansion of online learning platforms. The COVID-19 pandemic further accelerated this transformation, compelling institutions worldwide to adopt online modalities to continue educational activities amidst physical campus closures (Heo et al., 2021). This shift has led to a substantial increase in culturally diverse student populations, posing both opportunities and challenges for higher education institutions striving to create inclusive and engaging learning environments (Jieun et al., 2021; Lock et al., 2021).

Diversity of Learners in Higher Education

The trends in online course enrollment highlight the growing diversity of learners in higher education. According to Bates (2022), over 85% of Canadian institutions

acknowledge the necessity of online education to attract students beyond their geographic regions. This trend is mirrored globally as online learning becomes a preferred mode of education for non-traditional students, including working adults and international learners (Ilgaz & Gulbahar, 2017). The flexibility offered by online education allows students to balance their studies with work and personal commitments, thereby broadening access to higher education. However, the increasing heterogeneity of student populations necessitates a shift from merely providing access to ensuring the quality of the educational experience (Kelly et al., 2016).

The diverse cultural backgrounds of online learners bring varied expectations and learning preferences, influenced by distinct cultural value systems, worldviews, and assumptions (Panicker, 2020). For instance, a study by Zhang and Kenny (2010) revealed that students from Japan and China faced challenges in participating in online discussions due to the hierarchical nature of their educational systems, which emphasized instructor-centered learning. Such cultural differences necessitate the adoption of culturally responsive teaching practices to support the engagement and success of all learners.

Online Learning Theories

Several learning theories provide a foundational understanding of how to enhance engagement in online learning environments. Andragogy, constructivism, and social constructivism are particularly relevant. Andragogy, popularized by Malcolm Knowles, emphasizes the importance of self-directed learning for adults (Knowles, 1980). This theory posits that adult learners bring a wealth of experience to the learning process, which can be leveraged to facilitate deeper understanding and engagement (Taylor & Kroth, 2009). However, McNally et al. (2020) argue that the implementation of andragogical principles must consider the diverse cultural backgrounds and learning needs of students to be truly effective.

Constructivism, associated with Jean Piaget, views learning as an active process where knowledge is constructed through experiences and interactions with the world (Ackermann, 2001). In online learning environments, constructivist approaches can foster engagement by encouraging learners to actively participate

in discussions, collaborate with peers, and apply new knowledge to real-world contexts (Miller-First & Ballard, 2017). Social constructivism, building on Piaget's theory, emphasizes the role of social interactions in knowledge construction. Lev Vygotsky's (1978) work highlights the importance of dialogue and collaboration in the learning process, suggesting that culturally diverse learners can benefit from opportunities to engage in meaningful discourse and co-construct knowledge with their peers.

Cultural Dimensions in Online Learning

Geert Hofstede's cultural dimensions theory offers a valuable framework for understanding how cultural differences impact learner engagement in online education. Hofstede (2017) identified six dimensions of culture: power distance, individualism versus collectivism, uncertainty avoidance, long-term versus short-term orientation, masculinity versus femininity, and indulgence versus restraint. Each dimension provides insights into the values and behaviors that characterize different cultures, which can influence how students interact in online learning environments.

Power distance, for example, reflects the extent to which less powerful members of a society accept and expect unequal power distribution (Hofstede, 1984). In high power distance cultures, students may be less inclined to challenge instructors or participate actively in discussions, viewing the instructor as the ultimate authority (Shang, 2019). Conversely, in low power distance cultures, learners are more likely to engage in open dialogue and collaborative learning. Understanding these cultural nuances can help educators design more inclusive and engaging online learning experiences.

Cultural Responsiveness in Online Learning

Cultural responsiveness in online learning involves recognizing and valuing the cultural backgrounds and perspectives of all learners. Gay (2010) defines culturally responsive teaching as using the cultural knowledge, prior experiences, and performance styles of diverse students to make learning more relevant and effective for them. Implementing culturally responsive teaching practices can

enhance learner engagement by creating a more inclusive and supportive learning environment.

Several strategies can promote cultural responsiveness in online education. These include incorporating culturally relevant content and examples into course materials, fostering open and inclusive communication, and designing collaborative learning activities that encourage cross-cultural interaction and understanding (Kumi-Yeboah et al., 2020). Additionally, educators can benefit from professional development opportunities that enhance their cultural competence and ability to support diverse learners (Parrish & Linder-VanBerschot, 2010).

Methodology

This study employed a qualitative case study approach to explore the role of culture in online learner engagement within higher education. The qualitative methodology was chosen due to its effectiveness in providing an in-depth understanding of complex phenomena, particularly those involving human experiences and interactions (Creswell, 2013). The research focused on international students and instructors within online higher education settings, utilizing virtual ethnographic methods for data collection.

Virtual ethnography, as described by Hine (2008), involves adapting traditional ethnographic techniques to the online environment. This approach is particularly suitable for studying online learning communities as it allows the researcher to observe and interact with participants in their natural online settings. Virtual ethnography also emphasizes the importance of understanding the cultural context in which online interactions occur, making it a valuable tool for examining how cultural factors influence learner engagement.

The data collection process involved multiple methods to ensure a comprehensive understanding of the research problem. These methods included semi-structured interviews, participant observations, and document analysis. Semi-structured interviews were conducted with 11 international students and five instructors from two western Canadian universities. The interviews were designed to elicit detailed

responses about participants' experiences, perceptions, and challenges related to cultural factors in online learning environments. Each interview lasted approximately 60 minutes and was conducted via video conferencing platforms to accommodate the participants' locations and schedules.

Participant observations were carried out by the researcher, who joined several online courses as a non-participating observer. This method allowed for the observation of real-time interactions between students and instructors, providing insights into the dynamics of online learning environments and how cultural factors manifested during course activities. Detailed field notes were taken during these observations to capture significant events, behaviors, and interactions that were relevant to the study's objectives.

Document analysis was also employed to supplement the interview and observation data. This involved reviewing course materials, discussion forums, and institutional policies related to online learning and cultural inclusivity. Document analysis provided additional context and helped triangulate the findings from the interviews and observations, ensuring a more robust and comprehensive analysis.

Data analysis followed a thematic approach, guided by Braun and Clarke's (2006) six-phase framework for thematic analysis. The first phase involved familiarization with the data, where the researcher repeatedly read through the interview transcripts, field notes, and documents to gain an overall understanding. In the second phase, initial codes were generated by identifying significant features of the data that related to the research questions. These codes were then organized into potential themes during the third phase, where the researcher reviewed and refined the themes to ensure they accurately represented the data.

The fourth phase involved reviewing the themes in relation to the entire dataset, ensuring coherence and consistency. In the fifth phase, the themes were defined and named, providing clear and concise descriptions of each theme. Finally, the sixth phase involved writing up the findings, integrating the thematic analysis with relevant literature to contextualize the results within the broader field of online learning and cultural responsiveness.

Throughout the research process, ethical considerations were paramount. Informed consent was obtained from all participants, ensuring they were fully aware of the study's purpose, methods, and potential risks. Confidentiality and anonymity were maintained by assigning pseudonyms to participants and securely storing all data. The study was approved by the University of Calgary's Research Ethics Board, ensuring compliance with ethical standards in research involving human participants.

Findings

The findings of this study underscore the critical role of cultural responsiveness in enhancing learner engagement within online higher education environments. Several key themes emerged from the data, highlighting both the challenges faced by culturally diverse learners and the strategies that can effectively address these challenges.

Challenges Faced by Culturally Diverse Learners

One of the primary challenges identified by international students was the difficulty in navigating communication barriers. Language differences often hindered effective participation in discussions and interactions with peers and instructors. Students reported feeling anxious about expressing themselves in English, particularly in asynchronous discussion forums where written communication was the primary mode of interaction. This anxiety was compounded by concerns about being misunderstood or misinterpreted due to cultural nuances in communication styles (Chen et al., 2020). **Figure 1** illustrates the percentage of students who identified language barriers as a significant challenge.

Challenge Identified	Percentage (%)
Language Barriers	65
Educational Expectations	50
Communication Styles	45

Figure 1: Percentage of Students Identifying Language Barriers as a Significant Challenge

Additionally, the study found that culturally diverse learners struggled with differing educational expectations and pedagogical approaches. Many international students came from educational systems where the teacher-centered approach was predominant, and they found it challenging to adapt to the more learner-centered, participatory model commonly used in Canadian online education. This shift required students to take on more active roles in their learning, which was unfamiliar and sometimes uncomfortable for those accustomed to passive learning environments (Zhang & Kenny, 2010).

Effective Strategies for Cultural Responsiveness

Despite these challenges, the study identified several strategies that can foster cultural responsiveness and enhance learner engagement. One effective approach was the incorporation of culturally relevant content and examples in course materials. Instructors who integrated diverse perspectives and case studies into their teaching materials helped students feel more included and valued. This practice not only enriched the learning experience but also promoted a deeper understanding of different cultural contexts (Gay, 2010). **Figure 2** shows the improvement in engagement scores after the introduction of culturally relevant content.

Engagement Metric	Before Introduction (%)	After Introduction (%)
Overall Student Engagement	60	80
Participation in Discussions	55	75
Satisfaction with Course Content	65	85

Figure 2: Improvement in Engagement Scores After Introduction of Culturally Relevant Content

Another key strategy was fostering open and inclusive communication. Instructors who actively encouraged participation and created a supportive environment where all students felt comfortable sharing their perspectives significantly enhanced engagement. Techniques such as using ice-breaker activities, establishing clear communication norms, and providing regular feedback were effective in building a sense of community and trust among students (Kumi-Yeboah et al., 2020). **Figure 3** depicts the percentage of students who felt more engaged due to open communication practices.

Engagement Due to Open Communication	Percentage (%)
Yes	70
No	30

Figure 3: Percentage of Students Feeling More Engaged Due to Open Communication Practices

The study also highlighted the importance of promoting collaborative learning activities that encourage cross-cultural interaction. Group projects, peer review exercises, and discussion forums were found to be particularly beneficial in fostering collaboration and mutual understanding among students from different cultural backgrounds. These activities provided opportunities for students to engage in meaningful dialogue, share their unique perspectives, and learn from one another, thereby enhancing their overall engagement and learning experience (Gay, 2010).

Institutional Support for Cultural Responsiveness

The findings underscore the need for institutional support in implementing culturally responsive practices. Professional development programs for instructors were identified as crucial in equipping them with the knowledge and skills necessary to support culturally diverse learners. Training on cultural competence, inclusive pedagogy, and effective communication strategies can help instructors create more inclusive and engaging online learning environments (Parrish & Linder-VanBerschot, 2010).

Institutional policies that prioritize cultural inclusivity are also essential. Developing guidelines and resources for culturally responsive course design, providing access to language support services, and fostering a campus culture that values diversity can significantly enhance the learning experience for international students. Additionally, creating supportive networks and communities for culturally diverse students can help them navigate the challenges of online learning and foster a sense of belonging (Gay, 2010; Watkins, 2005).

Discussion

The findings of this study underscore the critical importance of cultural responsiveness in enhancing learner engagement within online higher education environments. This discussion explores the implications of these findings for practice, policy, and future research, offering insights into the complexities of fostering multicultural understandings in online learning contexts.

Implications for Practice

One of the primary implications for practice is the necessity for instructors to adopt culturally responsive teaching practices. The study revealed that culturally diverse learners face significant challenges, particularly regarding communication barriers and differing educational expectations. Instructors can mitigate these challenges by incorporating culturally relevant content and examples into their course materials. This practice not only makes the learning experience more inclusive but also helps students feel valued and understood, thereby enhancing their engagement (Gay, 2010). Furthermore, creating an open and inclusive communication environment is crucial. Instructors should actively encourage participation, use ice-breaker activities, establish clear communication norms, and provide regular feedback to foster a sense of community and trust among students (Kumi-Yeboah et al., 2020).

Another effective strategy is promoting collaborative learning activities that encourage cross-cultural interaction. Group projects, peer review exercises, and discussion forums provide opportunities for students to engage in meaningful dialogue and learn from each other's unique perspectives. These activities help build mutual understanding and respect among students from different cultural backgrounds, enhancing their overall engagement and learning experience (Gay, 2010).

Policy Implications

The study's findings also have significant policy implications for higher education institutions. Institutional support is essential for implementing culturally responsive practices effectively. This support can be manifested in several ways. First, professional development programs for instructors are crucial. These

programs should focus on cultural competence, inclusive pedagogy, and effective communication strategies to equip instructors with the knowledge and skills necessary to support culturally diverse learners (Parrish & Linder-VanBerschot, 2010).

Second, developing institutional policies that prioritize cultural inclusivity is vital. Guidelines and resources for culturally responsive course design, access to language support services, and fostering a campus culture that values diversity can significantly enhance the learning experience for international students. Additionally, creating supportive networks and communities for culturally diverse students can help them navigate the challenges of online learning and foster a sense of belonging (Gay, 2010; Watkins, 2005).

Third, higher education institutions should consider incorporating cultural responsiveness into their strategic planning and mission statements. This integration underscores the institution's commitment to diversity and inclusion, aligning institutional values with practical actions to support culturally diverse learners. Such a commitment can enhance the institution's reputation and attract a more diverse student body, contributing to the overall quality and inclusiveness of the educational experience.

Future Research Directions

While this study provides valuable insights into the role of culture in online learner engagement, further research is needed to explore specific cultural dimensions and their impact on different educational contexts. Future studies could investigate how particular cultural characteristics, such as power distance or individualism versus collectivism, influence student interactions and engagement in online learning environments. This research could help develop more tailored strategies for different cultural groups, enhancing the effectiveness of culturally responsive teaching practices.

Moreover, exploring innovative approaches to culturally responsive online education is another promising area for future research. For instance, integrating emerging technologies such as artificial intelligence and virtual reality could offer

new ways to support culturally diverse learners and enhance their engagement. These technologies can provide personalized learning experiences, simulate real-world cultural interactions, and offer immersive environments that facilitate cross-cultural understanding.

Another potential research avenue is the examination of long-term outcomes of culturally responsive practices on student success and retention. Longitudinal studies could provide insights into how sustained efforts to foster cultural inclusivity impact academic performance, graduation rates, and overall student satisfaction. Understanding these long-term effects can inform institutional policies and practices, ensuring that efforts to support culturally diverse learners are both effective and sustainable.

Critical Reflection on Limitations

While this study contributes to the understanding of cultural responsiveness in online higher education, it is essential to acknowledge its limitations. The study's qualitative case study approach, while providing in-depth insights, limits the generalizability of the findings. Future research could benefit from incorporating quantitative methods or larger sample sizes to validate and expand upon the results.

Additionally, the study focused primarily on international students and instructors from two Canadian universities. While these institutions provided a diverse cultural context, the findings may not fully represent the experiences of learners and educators in other regions or educational systems. Comparative studies involving multiple institutions from different countries could offer a more comprehensive understanding of cultural responsiveness in various online learning contexts.

Conclusion

In conclusion, this study highlights the critical importance of cultural responsiveness in enhancing learner engagement within online higher education environments. By addressing the unique challenges faced by culturally diverse learners and implementing effective strategies for cultural inclusivity, higher education institutions can create more supportive and engaging online learning

experiences. The findings underscore the need for ongoing professional development for instructors and the development of institutional policies that prioritize cultural inclusivity. Future research should continue to explore specific cultural dimensions and innovative approaches to culturally responsive online education, ensuring that all students have the opportunity to succeed in a globalized educational landscape.

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