Student Reported Growth: Success Story of a Master of Science in Education Learning Community Program

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Quantitative and qualitative data collected from students who have completed a Master of Science in Education Learning Community Program support the effectiveness of the learning community model in facilitating professional growth and transformation. Instructors model constructivist theory. Peer review, collaboration, and reflective analysis of theory and practice are essential components of the model. The program facilitates growth as educators build their understanding about teaching and learning, transfer their ideas and processes into the classroom, and take an active leadership role in promoting change in classrooms, school, and larger community.

The Master of Science in Education Learning Community Program at a Midwestern university has been designed to meet the professional development needs of educators. Since 1996, over 2000 graduates have reported and demonstrated transformational growth in their thinking about learning, in their teaching, and in their leadership. The master’s of science was designed to be delivered in a non-traditional manner in off-campus cohorts, or, more specifically, learning communities. Data collected from students who have completed the program support the effectiveness of the learning community model. The program promotes teacher growth and transformation based on inquiry, classroom application, and critical reflection.

Current research on teaching and learning, and best practices are modeled. In addition, the master’s of science program is aligned with professional development standards established by the National Board for Professional Teaching Standards (NBPTS) and the university Leadership Standard. The faculty work collaboratively to shape educational experiences that engage educators in critical dialogues and analysis of educational theory and practice. Collaboration and peer review are essential components of the learning experiences. Students participate with the same group of peers and the same faculty facilitators for the entire two-year program. Each learning community meets one weekend per month at a locally accessible site. Learning communities have been located in several states.

Learning Community Model

The learning community described in this paper differs from traditional models in several ways. A team of two university professors provides leadership in the learning community over the course of the program and oversees the organization and delivery of coursework. This structure is designed to foster elements of an effective learning community which include:

- A safe learning environment supporting risk taking, mutual respect, and critical reflection
- Constructivist format in which the learner investigates and reframes understanding
● Collaborative learning and peer review where colleagues share and receive feedback and support from permanent cohort groups.
● Readings, experiences, and activities which are spiraled over a two-year program to build depth in understanding
● Transformational learning resulting in the revision of a learner’s perspective and understanding of self
● Transferability of new learning to professional practice
● Inclusion of outside experts in content or process as necessary

Traditional cohort models often offer classes that are taught by different professors or adjuncts over a time period. In these models, classes are often taught as a single entity. As a result, students may experience a lack of continuity.

In the non-traditional learning community model described in this paper, objectives from different classes are interwoven and spiraled throughout the two-year period. While the primary objectives of a course are met during a term, the objectives appear again as they are spiraled over the two-year course with more intense readings and experiences, and students are moved to a different depth of understanding. There is a sense of connectedness because the classes are designed to interweave themes, theory, and practice.

In addition, students are expected to implement course outcomes into their teaching, and share their results and receive feedback from their permanent cohort teams, their advisory groups, and their job-alike teams. Van der Aalsvoort and Harinck (2000), in their review of methods for studying social interactions in instruction and learning, observed that the learner’s construction of knowledge results from the interdependence between social and individual processes. The role of peers in the learning process is critical. In a properly structured group learning environment, peers “encourage questioning, evaluating and constructive criticism, leading to a restructuring of knowledge and understanding” (Naylor & Cowie, 2000, p. 93).

The facilitators model constructivist theory and work to create a safe and positive environment where students are actively engaged in inquiry, self-reflection, collaborative learning, and independent learning. Peer review and collaboration are essential components of the model. The program facilitates growth as educators build their understanding about teaching and learning, transfer their ideas and processes into the classroom, and take an active leadership role in promoting change in classrooms, school, and larger community.

Themes are spiraled over the two-year experience, and theory and practice are examined in increasing depth. Books and articles are carefully selected to build student understanding and critical reflection skills. Students apply what they learn in the classroom, reflect on their implementations and critique them with their peers. In addition, students examine their own teaching skills, learning styles, multiple intelligences, personality and leadership styles and reflect on how these apply to their construction of curriculum and their teaching. As students build understanding through reflective and analytic engagement with new ideas and theories of teaching and learning, they deconstruct their thinking and understanding about teaching and learning and about their practice. They transform their thinking and their practice in the process.

Initially, students are asked to analyze their current teaching through the use of teaching surveys and videotaping of class sessions. They also are introduced to Adult Learning Style Surveys, Adult Multiple Intelligence Indicators, and Meyers Briggs Indicators to help them delineate more about their own learning, working preferences, and personality styles. Students are asked to reflect on how the information they have learned about themselves from each of these tools informs
Reflection is essential to development and is the basis for transformational growth. Initially, many students feel uncomfortable with reflective writing. The first reflections are about their own teaching and observations of classroom videos. These initial reflections are usually superficial and lack depth of thought. As students progress through the spiraled materials and discuss, evaluate, and implement their new learning in their classrooms, they begin to connect ideas, themes, and theory to practice within their reflections. Unfamiliar ideas, strategies, and practices become familiar and enter into the teaching repertoire. Students grow to become thoughtful, analytical practitioners and reflection, which once seemed unnatural and awkward, becomes a modus operandi.

Educators rarely think of themselves as leaders. One of the goals of the program is to develop an understanding of how they can become change agents in their schools and communities. Early in the process, students are introduced to the Chaos Theory of physics which explores how patterns arise out of chaos (Garmston and Wellman, 1995). Even the fluttering of a butterfly’s wings can effect a change in global weather patterns. The butterfly wings become a metaphor for the incremental changes which occur when new teaching and learning strategies are implemented in the classroom. This, along with the study of organizational theory and dynamics, helps students understand how they can become instrumental in facilitating positive change in the classroom, the school, and the community. Students report that they are often asked questions by colleagues as a result of participating in a master’s program. The changes which occur in their classrooms are shared by their own students, and others become aware of a transformation taking place. Finally, the research they conduct becomes a catalyst for pathways to change.

The portfolio is important in the learning process for it reflects the growth and transformation in the student’s thinking, teaching, and learning and becomes a work in progress over the length of the program. The advisory team members assist each other in the development of the portfolios and evaluative rubrics, and offer critical reviews during the process. The final portfolio reflections epitomize the transformation in teaching and learning as students are able to connect all of their program experiences, reading, theory, and new ideas to their actual classroom practice.
Theoretical Basis for a Learning Community

Three inter-related concepts provide the theoretical basis for this learning community model: constructivism, learning communities, and transformational learning.

Constructivism

The basis for the learning community concept lies in the theory of constructivism. According to Brooks and Brooks (1999), constructivism is a theory about knowledge and learning in which the learner is allowed to investigate and reframe understanding. Constructivism, as an epistemology, attempts to explain human learning in terms of understanding the interaction between what learners know and believe, with exposure to new events, activities, and information (Abdal-Haqq, 1999). The meaning and application of knowledge are interpreted by the learner, through experience (Rainer, 1999). Constructivism is more concerned with student understanding than with accumulated facts; further, constructivism considers the role of social and cultural contexts related to learning, rather than purely cognitive learning following abstract principles (Black & Ammon, 1992; Vygotsky, 1978; Bruner, 1996).

A constructivist learning environment utilizes experience, collaborative discourse, and reflection which, together, assist the learner to confront his or her own learning needs (Brooks & Brooks, 1999).

Viewed within the Piagetian (1964) framework, learning takes place when the learner actively assimilates and interprets new information within the framework of existing understandings. This interaction between new information and current understandings leads to learning by forcing the learner to reformulate, or reconcile, any dissonance produced by this interaction (Black & Ammon, 1992; Brooks & Brooks, 1999). Vygotsky’s social constructivism emphasizes the role and influence of socio-cultural forces in which learning occurs and how that context impacts learning (Vygotsky, 1978).

Dewey (1916) concluded that the primary purpose of education is to improve students’ reasoning capacities and problem-solving abilities. Students’ motivations to learn must arise from perceived needs originating out of problems of interest to students; students will be motivated when their learning centers on improving their abilities to solve their “real life” problems (Ornstein & Hunkins, 1998). Learning environments in which problem solving and discovery are encouraged require teachers who facilitate student learning (Dewey).

Meaningful learning experiences are designed primarily with the learners’ contexts in mind. Social constructivism, sometimes referred to as Vygotskian constructivism, emphasizes the individual’s construction of knowledge through interaction with the environment (Abdal-Haqq, 1999). Although learning is an individual experience and interpretation, research indicates that people learn through interaction with others (Johnson & Thomas, 1994). In addition, Brookfield (1995) emphasizes the role of critical reflection in the facilitation of adult learning, in order to foster the expansion of a student’s capacity for lifelong learning.

Learning Communities

One of the most significant developments in higher education in recent years is the emergence of adult learners as a major constituency (Maehl, 2000). In order to accommodate this growing trend into the long-held ideal of lifelong learning, universities must create programs which acknowledge and respect non-traditional adult learners’ needs and interests. These new forms of education will have to
Successful cohorts produce a sense of belonging among members, support risk taking, and foster mutual respect and critical reflection.

Research indicates that successful cohorts produce a sense of belonging among members, support risk taking, and foster mutual respect and critical reflection (Brooks, 1998; Lawrence, 1997). A learning environment that is safe, caring, and trusting encourages and enables learners to bring unique life experiences to the cohort. This, in turn, facilitates "learning-within-relationships" (Barlas, 2001), a function of equal participation leading to transformational learning. Kegan and Lahey’s (2001) approach to adult development suggests that learning depends on one’s connections with others and the context in which that learning occurs. A learning community also results in meaningful learning and provides the necessary support for the individuals (Slick, 2002). Current research on professional development supports the importance of collaborative and collegial learning environments where colleagues reflect on learning strategies which have been implemented in the classroom (Darling-Hammond & Richardson, 2009). Fogarty and Pete (2009-10) report that teachers who are involved in collaborative review of implemented practices demonstrate deeper understanding, which insures transferability of new learning to professional practice.

Transformational Learning

In 1978, Mezirow proposed a new theory of adult learning. This theory originated with his research of adult women who had returned to college after an extended absence. Mezirow (2000) found that the women who had developed a critical awareness "of their beliefs and feelings about themselves and their role in society" also changed "the way they had tacitly structured their assumptions and expectations" (p.xii). This change in thinking was a "learned transformation," and the term "transformative" or "transformational" learning was born. In his analysis of Mezirow’s theory, Inglis (1997) states that "transformative learning focuses on the individual and the reconstruction of the notion of self” (p.4). Transformative learning emphasizes the learning, growth, and resulting empowerment of the individual to act accordingly. The integration of new experiences with present understandings leads to a revision, or transformation, of the learner’s perspective (Nesbit, 2001).

Mezirow (2000) identifies three interrelated components in the process of transformational learning: the learner’s experiences, critical reflection, and rational discourse (in which the learner acts upon critical reflection). Beliefs and assumptions are questioned, allowing for the possibility of new or revised interpretations of past experiences and present realities. Only by developing an
In order for transformational learning to occur, critical reflection and reflective discourse are necessary. This ability to reflect on one’s own, as well as others’ assumptions, is inherent in the process of transformational learning (Merriam, 2004). Belenky and Stanton (2000) concluded that most adults do not have the skill to critically reflect on their thinking, nor the thinking of others. They have not had the opportunity or experience in developing this capacity.

Perhaps the most significant aspect of transformative learning is the role of critical reflection. Mezirow states that “central to this transformative process of learning is critical reflection and testing new meanings through rational discourse” (1991, p.2). Nesbit (2001) argues that the “potential of transformative learning for graduate and continuing professional education lies in its ability to encourage ‘reflection-in-action,’” which leads to improved professional practice and greater capacity for further gains (p. 5).

It is the individual’s reflection on self that drives transformative learning. Mezirow’s concept of learning based on awareness of one’s beliefs and assumptions requires more than the traditional “strategies... that focused on the improvement of skills and the acquisition of new techniques” (Sokol & Cranton, 1998, p.1). This is the difference between transforming and training. The former produces an individual whose growth and learning becomes self-directed and meaningful; the latter results in an individual who is dependent on others for instruction in skill development. Brookfield (cited in Mezirow, 2000, p.125) agrees with Mezirow when he states “transformative learning cannot happen without critical reflection....”

Mezirow’s theory of transformative learning has been a useful model for understanding and improving adult learning. In order to genuinely improve the teaching profession, educators must move “beyond what Freire (1970) described as the ‘banking model’ of teaching in which educators make deposits of information into the empty vaults of students’ minds” (Sokol & Cranton, 1998, p. 1).

Learning Community Impact

Data Collection

Data collected from students who have completed the Master of Science in Education Learning Community Program support the effectiveness of the learning community model in facilitating professional growth and transformation. The impact of the learning community experience is assessed and interpreted from data collected through survey instruments administered at various points throughout the two-year program and through student formative and summative reflections. While student learning is assessed through various projects, presentations, research, and the professional development portfolio, assessment instruments are utilized to measure the effectiveness of the learning community process in facilitating student growth and development. Several dimensions of program outcomes related to student learning have been summarized in this paper.

Upon completion of the learning community program, quantitative data in the form of surveys is collected and collated for each learning community. Three surveys are administered: a Professional Development Survey, a Facilitator Survey, and a Learning Environment Survey. Summative surveys were collected from ten...
different learning communities with three different facilitator teams. Kabes, Lamb, and Engstrom (2010) reported that survey data collected from students over a five-year cycle showed consistent scores of 92.5 per cent or above when rating twelve elements central to the learning community model and demonstrated the effectiveness and impact of the learning community model. The quantitative results include elements of best practices: learning environment, effective teaching strategies, research-based decision making, scaffolding, peer collaboration, learning community philosophy and professional growth, empowerment, reflective practitioner, inquiry, and transformational leader (change agent).

Qualitative data in the form of summative reflections from students are also collected. All of the summative reflections of 42 students in two first-year (2009-2010) learning communities reported growth in thinking about learning, in reflection, and in teaching. All 42 respondents described themselves as different and better teachers and learners since the start of the program. Students consistently report that they have become more reflective about their teaching. All of them describe how they have learned about themselves as learners, as thinkers and as collaborators who have grown professionally. The responses mirror those collected from students since 1998. Incremental changes have occurred and transformation of their teaching and learning is developing. This gradual transformation is observed in student formative reflections. The feedback reflects the transformation of students in their thinking and in their practice and also supports the effectiveness and impact of the learning community program.

Examples of reflective responses have been selected to demonstrate how that transformation is reported by students.

Critical Reflection

Experience in a learning community pushes students to inquire into their belief structures and philosophy, underlying values, and the actions connected to them. Readings, dialogue, and classroom applications provide experiences within which thinking and classroom practices are challenged. Initially, exposure to this inquiry-based environment leads to a period of “deconstruction” in which teachers experience dissonance in current beliefs and practice in light of newly acquired knowledge and experiences. Through consistent exposure to opportunities (individual and collective), critical reflection on practice becomes a habit of mind.

Several student responses follow beginnings of transformative learning. Early in their learning community experience, students responded to questions designed to elicit critical reflection on their teaching practice and their thinking as professionals. Carol, a second grade teacher, writes “I am also reflecting on my beliefs as a teacher as well as [myself] as a student. I am thinking a lot about the methods I teach in my classroom and my beliefs. I am beginning to question what I am doing and why. Through my reflections, I am beginning to develop a sense of who I am, and what I really believe.” These excerpts indicate that the process of critical reflection is leading to transformative learning.

Tom, a middle school teacher, describes his development by stating “I totally wanted to take this program for a financial gain, but now I see that this program will help me become a better teacher. The books, the activities, the assignments, and the groups I work with are all making me question myself and why I do something the way I do....” Another student, Pam, who teaches kindergarten, states “I have been composing this reflection in my mind for many
days. There are so many thoughts and ‘revelations’ happening….” She then
 describes her journey as a learner, beginning with her days as a high school
 student. She relates that she was always a bit embarrassed by her “love of
 learning” in high school and college because “it wasn’t cool. For some reason, I
 never wanted to say it out loud.” She continues by affirming her belief in herself
 when she says “it is a good thing to be a self-proclaimed lifelong learner!” The
 transformative principles of meaning, examining values, and acting are evident in
 her comments. In her concluding thoughts, she states that her learning is
 “stretching my wings…. I have reached the point where I feel strongly enough that
 to do the best I can for my students, I have to stand up for what I know is right for
 them as young learners.” As mentioned earlier, these educators are only several
 months into their graduate studies, but the beginnings of transformative learning
 are evident and encouraging. The data emerging from this class of educators
 supports Sokol and Cranton when they conclude that “adding a few more techniques
to the repertoire is always of interest, but the real, and deeper, professional
 development involves an examination of our self as teacher, and a thorough look at
 what we believe – and why” (1998, p.3).

Students often report the importance of reflection and the transformation
 in their teaching which has happened and will continue because of that reflection
 and critical analysis “The growth that I have experienced professionally over the
 past two years has been tremendous. This program has made me more reflective on
 the quality of what I do and its effect on the students and other staff in my school. I
 believe that I’m much more qualified, not just to teach, but to be openly critical in
 my attempts to provide a better environment for my students.” (Student feedback)

In the settings described above, it is evident that transformative learning is
 a valid approach to teacher professional development. “Adult learners engaged in
 this process are actively questioning heretofore invisible assumptions about self,
society, role, and responsibility….” (Taylor, 2000, p.159). Teachers who have
 experienced transformative learning as part of their professional development will
 not only gain a deeper understanding of the learning process, but are likely to
 develop a greater sense of meaning and purpose as educators (Kroth & Boverie,
 2000).

Collaboration

Collaborative problem solving leads students to share and examine their
 teaching practices. Breaking down teacher isolation collectively empowers teachers,
 and assists in developing a shared language of effective practice. Within this safe
 and supportive environment, teachers begin to critically examine their “teaching
 self,” and reflect on the capacities required to perpetuate learning and growth. An
 important component in the students’ learning community experiences,
collaboration, is utilized as a means to transformative learning. Early in the
 graduate program, students are exposed to
 writings and dialogue with colleagues that
 challenge their assumptions about learning
 and teaching. This new information and new
 ways of thinking about education often create
 the conditions necessary for what Mezirow
 calls a “disorienting dilemma”: an experience
 that leads an individual to question beliefs and values.

Teachers report that they have implemented the strategies and theories to
 which they have been exposed. This has become an integral part of their teaching
 repertoires. In addition, they have learned to work collaboratively to bring about
 changes in their classrooms, schools and communities. “This has been the best
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As part of the learning community experience, students examine and challenge each other’s thinking about teaching and learning and begin the transformational process in which new and deeper understandings replace what have become inadequate beliefs about teaching and learning.

Argyris (2000) concludes that “teaching people to reason about their behavior in new and more effective ways breaks down the defenses that block
learning” (p. 296). Experienced teachers are often revitalized as a result of their experiences. "This program has stretched me professionally and personally to heights I never thought I could attain. Furthermore, this experience has once again ignited the spark for the love of teaching I thought I had lost. The impact of what we’ve done in our community has reached and will continue to reach out to our classrooms, to colleagues, our families, the lives of our students, and beyond” (Student feedback).

The reflective descriptions above are representative of the types of reflections which are provided by students throughout the course of their two-year programs. The reflections support the growth and transformation which results from this learning community program.

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