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## Virtual Programs and Assessment in Graduate Teacher Education

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## **Virtual Programs and Assessment in Graduate Teacher Education**

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### **Abstract**

This research goes to the very heart of professional education preparation in higher education today. Colleges and universities face increasing demands and many of the systems and structures currently in place will not meet future needs. This research focuses on enhancing present preparation options, developing additional options, collaborating with multiple partners, and coordinating all these in alignment with state and national standards, while focusing on the student's ability to affect K-12 learning.

### **Introduction**

This action research paper presents data about an online Master of Arts in Education (MAE) in Learning and Behavior Disorders (LBD), P-12 at Western Kentucky University. During extensive program revisions, the program developed a collaborative assessment model while preparing more than 300 special education personnel.

Exceptional Education (EXED) provides a strong field-based, multi-disciplinary, and competency-based program that integrates research-based curriculum and pedagogical knowledge with practical skills relevant to the targeted student population. The intent is to meet the demand for quality professional educators. A primary goal of this preparation program is to develop skills and enhance dispositions so that the candidate and their P-12 students can experience success.

The online MAE in EXED leads to P-12 LBD certification. The EXED program emphasizes culturally sensitive practices for effective teaching in high-poverty, demographically diverse rural schools. The MAE requires 30 semester hours, a comprehensive exam, a research tool, and a professional development portfolio. LBD certification requires a passing score on Praxis II administered by the Educational Testing Service (ETS).

The collaborative assessment model utilized by this program replaces outdated and inefficient structures and processes. This model focuses on preparing and sustaining quality professionals, while measuring and documenting both program and effectiveness of student learning through the use of technology, data driven decision making, collaborating with multiple partners, and coordinating these factors in alignment with Interstate New Teacher Assessment

and Support Consortium (INTASC), National Council for Accreditation of Teacher Education (NCATE), Southern Association of Colleges and Schools (SACS), Association for Educational Council for Exceptional Children (CEC) and International Society for Technology in Education (ISTE) teacher standards. The ultimate goal focuses on the student's ability to affect K-12 learning. Online graduate course content and projects in this program include technology integration and assessment of student learning in curriculum applications as well as to enhance productivity and professional practices.

### **Theoretical Context**

The assessment movement in higher education has evolved into a resignation of dealing with political accountability and economic implications while most of us still embrace the primary focus and significance of improving student learning. We have shifted from teaching-centered to learning-centered where higher education is producing learning rather than just providing instruction. (Angelo, 1999).

If we acknowledge that assessment drives student learning, it will likely remain at the center of the curriculum design process, and will be central to the student learning experience. (Ramsden, 1992; Biggs, 1999). Higher education instructors need a principled basis for designing new forms of assessment, closely aligned with instructional goals and standards while employing the interactive features of online technology. (APA, 1993). A constructivist learning environment is based on social interaction, communication, exchange of views, collaboration and support for learners to take more responsibility for the learning process through learner-centered tasks (McLoughlin and Oliver, 1998). The features of the student-centered curriculum and assessment include performance-based tasks that require students to create a product, engage in teamwork, and self and peer assessment (Laurillard (1996).

Reeves (2000) suggests three main strategies to integrate alternative assessment into online learning environments: cognitive assessment, performance assessment, and portfolio assessment. Further, he proposes five critical aspects of performance assessment. These are focused on complex learning; engagement in higher-order thinking and problem solving skills; stimulation of a wide range of active responses; involvement with challenging tasks that require multiple steps; and significant commitment of student time and effort. Simonson et al. (2000) claims that proponents of alternative, performance based assessment suggest that the content validity of authentic tasks is ensured because there is a link between the expected behavior and the ultimate goal of skill/learning transfer.

Higher education faculty need to develop a learning community culture. Four preconditions are critical to this collective culture. First, we need to develop shared trust by highlighting individual successes and helping faculty members feel respected, valued, safe, and in the company of worthy peers. Second, a faculty can share vision and goals by collectively identifying learning-related goals worth working toward and problems worth solving while considering the costs and benefits to faculty members and students. For example, a simple approach may be to ask faculty to list two or three assessment questions they would like to see answered in the coming year or things they would like to ensure that students learn well before graduating. Then, common goals are identified across the lists. When common goals are

determined, they must be clear, specific, linked to a timeframe, feasible, linked to standards, and, most importantly, significant to the field. Third, a shared language or concepts must be built. Before a faculty can collaborate productively, they establish common definitions for terms such as learning, community, improvement, productivity, and assessment. Fourth, shared guidelines must be developed. In other words, build a list of research-based guidelines for using assessment to promote student learning and program improvement. Examples of guidelines include engaging actively in students' academic work, setting and maintaining realistic high expectations and goals, providing regular and specific feedback, and providing connections of research findings to authentic real-world applications of assessment projects (Angelo, 1999).

### **Research Methods**

The purpose of this descriptive, developmental research was to investigate the current status of the graduate EXED program to describe "what exists" with respect to three variables—student assessment, graduation rates, and collaboration.. The scope of this research was not only concerned with the existing status and interrelationships of the three variables but the course and program revisions that took place over the last three years. One type of developmental research is “Model or System Development” which is the creative development of a model or system (paradigm) based on a thorough determination of the present situation or system and the goals sought. (Key, 1997) The development of a Collaborative Assessment Model is the primary outcome of this three-year research.

In this section program revisions will be described and then the collaboration between faculty will be explained. WKU faculty began their investigation, leading to program revisions that uniquely address how quality and capacity will be ensured through research-based pedagogy that incorporates the critical components of theory, demonstration, guided practice, and authentic application in school and community-based experiences. The research questions used by both programs during this reform process are as follows:

1. How do we prepare and sustain quality professionals?
2. How do we measure and document effectiveness of programs?
3. How do we effectively prepare students in the use of data in decision making?
4. How do we effectively prepare students in the use of technology in data management?

### **Exceptional Education**

The EXED program faculty began their program review with alignment of courses with state and national standards—the KETS, NCATE, SACS, CEC, and ISTE. The next step involved the creation of a chart outlining all EXED course objectives, assignments, and field experiences. At times, faculty members were surprised at the results of this chart. Areas of duplication were discovered and negotiation for the appropriate placement of some assessments ensued. For example, case studies were required in several courses. Discussion revealed that one professor was only requiring this assessment because the instructor felt that students should know how to use a case study. Negotiation involved a discussion of the best placement of the assessment measure.

Critical performances are specific assessments which provide evidence about what teacher candidates must know and be able to do at different levels of growth and development toward one or more teaching standards. They are usually a culminating project of multiple parts which encompasses most content and accomplishments in the course.

Multiple sources of input were utilized to outline critical performances for the overall program and individual courses. The critical performances are the result of contributions from the EXED Advisory Council concerning necessary and practical skills for teachers, faculty expertise, students, graduates, current research and university practices (professional portfolios and Teacher Work Samples). Once the members of the faculty identified critical performances, they worked on the specific requirements of each critical performance and scoring rubric.

Another major program revision included the EXED Comprehensive Exam. The old style for this exam was a Praxis-like multiple choice exam that had been created by the faculty. An item analysis was conducted to determine which courses were represented and which questions were most answered incorrectly by students. Not only did this analysis reveal many inconsistencies in the exam, but many of the standards and critical performances were not represented. A new essay-type of exam was created with a question from each course that was correlated to critical performances and standards. Students answer three questions by selecting a question from a group of four. Additionally, a performance task was included.

The development of a graduate survey and database of graduates added an ongoing check and balance to the process of continual program assessment. Graduates provide input about their preparation to become a special education teacher and suggestions for improvement in the program. This graduate survey data, student performance on critical performances in courses, EXED Comprehensive Exam passing rate, and Praxis passing rates are analyzed each year and used to make adaptations to the program.

Faculty have developed a new program model, the MAE in LBD, P-12, that increases both the capacity and quality of teachers while helping graduate students from underrepresented populations to overcome barriers to participation in the LBD program. This new model has improved the capacity of the program by implementing strategies to serve students for whom the program is currently inaccessible, including students who are employed and unable to enroll in a full-time program, students who are not able to commute to campus, students who can not afford tuition, and students who have difficulty negotiating barriers to participation due to disability. Structural improvements to increase the responsiveness of the LBD faculty to the needs of these diverse students include the use of on-campus programs, interactive distance education technology and course delivery, and on-line web delivered courses. WKU continues to develop a comprehensive program that allows for maximum accessibility for students.

The quality of the MAE program has also been improved in several ways. The EXED faculty has implemented a number of strategies and activities to make the program more field-based, multi-disciplinary and competency-based. The specific revisions and enhancements include: (a) the use of cohort groups to facilitate the growth of peer support and collegiality; (b) more intense and extensive field-based activities and critical performances that focus on culturally competent teaching, including projects requiring multidisciplinary collaboration and

practical projects with a direct impact on participants' schools and K-12 student achievement; (c) development and expansion of the Professional Development Networks, which included trainees' cooperating/mentoring teachers in the trainees' field placements, members of advisory councils, parents and advocacy groups, and departmental faculty; and (d) restructured internships and classroom experiences to assure that competent teachers are trained, who will continue to serve students and not leave the field in three to five years.

### Collaboration

There are many unique features of this program that enhance collaboration. EXED graduate programs produce more graduates than any other graduate programs in the university. The mode of delivery for is primarily online. Program faculty develop their own content and are using high tech systems to create this content (Tegrity, streaming servers, original CD's, DVDs, Blackboard, etc.).

Collaboration is the key to this descriptive, developmental research. The authors have been discussing online assessment strategies for three years. Performance based assessment consists of a student's active generation of a response that is observable either directly or indirectly via a permanent product. Performance based assessment must be clearly aligned with what has been taught; scoring criteria or rubrics must be shared prior to students working on the task; be clearly aligned with standards and objectives and give several models of acceptable performances; and encourage student self-assessment and reflection (Elliott, 1995). An assessment is authentic when the nature of the task and context in which the assessment occurs is relevant and represents "real world" problems or issues (Elliott, 1995).

Performance based, authentic assessment strategies utilized include critical performances, teacher work samples, professional portfolios, case studies, annotated bibliographies, discussion boards, guided research, web quests, group critiques, interviews, surveys, oral presentations via videotape, online tutorials, and online exams.

Collaboration and discussion between faculty have illuminated the changing roles of both faculty and students. The primary responsibility of learning has shifted from the teacher to the student. The role of instructor for online courses has become one of intense preparation prior to the beginning of class. The instructor provides content, online lectures, structure, assignments and assessments linked to standards, sample projects, and schedules. When class begins, students must take responsibility for their own learning and, in fact, tailor learning for themselves by engaging their individual temperament, circumstances, needs, tastes, and ambition. Students have the potential to utilize every aspect of their lives—work, leisure, personal relationships, community activities, and course work—to enhance performance on the open-ended, authentic projects in each course in the program. The instructor provides support and guidance through constant communication (email, announcements, or phone), specific and timely feedback, and providing a social context for the class. Each course contains an open discussion board called the "Water Cooler" where students and the instructor can discuss any aspect of the course.

Faculty have compiled several data collection and analysis tables. Alignment of courses with state and national standards was a major first step in program revision. Each course includes

the standards alignment for that course in its syllabus. Tables representing alignment of the objectives, assessment strategies, field experiences, and critical performances for each course were constructed. Table 1 presents an alignment of data sources with NCATE, state standards, and the WKU College of Education's conceptual framework and dispositions at different stages in the program.

These tables allowed the program faculty to review, compare, and contrast assessment strategies, data sources, and standards alignment more effectively.

All of the K-12 public schools participating with Western Kentucky University in this program spent time discussing the issues among their faculty and with public partners. Their continual input assists in program design, involvement, and program assessment. Numerous efforts are made to meet the needs of the students. Course and program sequences have been arranged so part time students can complete their programs in a timely manner. All courses are offered online. Tuition assistance is available through grant support, discounts for school district partners, and financial aid counseling. For students who have barriers to participation due to disability, accommodations are made through assistance from student support services and using multimedia experiences that are inclusionary.

Field experiences in the form of hands-on or field-based application projects are a part of most courses in the program. The primary clinical or practicum field experience is in EXED 590. For the EXED program this semester course follows the Kentucky Teacher Internship Program cycle guidelines and requires site visits by practitioners, development of a professional growth plan (PGP), videotapes of teaching accompanied by lesson plans and interventions that demonstrate mastery of identified concepts on the PGP, and a teacher work sample.

Several assessment strategies provide students with experience in using data in decision making. The teacher work sample requires creating and teaching a unit of instruction. Students use assessment data to profile and analyze student learning and communicate information about student progress and achievement. The reflection and self-evaluation section requires students to analyze the relationship between his or her instruction and student learning in order to improve their own teaching practice. Case studies furnish students the opportunity to analyze authentic situations and provide solutions incorporating theory and practice. The action research project requires students to conduct research in their own classroom, library, and/or technology center, analyze the data, and write a journal-type article (Oberg & McCutcheon, 1987). Field experiences afford students the opportunity to make decisions about interviews, on-site visits, collaboration, and field projects. The professional portfolio consists of student work that displays mastery of standards; a purposeful collection of student work that exhibits the student's efforts, and evidence of student reflection (Bailey, 1998).

Use of technology to manage data is demonstrated by instructors and students. The authors use Tegrity or Camtasia to create demonstrations, teaching or lecture videos that are either available to students on a streaming server, on a CD or DVD distributed to students. The authors use Blackboard to hold online discussions, build a learning community, and post grades.

Students use technology in three ways. One way is the use of technology to actually take the course—use of Internet to participate in the course site in Blackboard, email, use course CDs, use software to create projects, etc. The second use of technology is learning to integrate technology in instruction and student learning. When technology integration is a focus, use of the technology and its integration is in the scoring rubric for the project. Third is the use of technology by students to manage data. Students learn how to create a spreadsheet to record pupil assessment data and create charts for the teacher work sample. Students learn how to create a database on instructional topics and create specific types of questions to stimulate higher order thinking skills.