MINNESOTA STATE UNIVERSITY, MANKATO

REQUIRED COVER PAGE

APPLICATION FOR FACULTY RESEARCH GRANT

**All sections/questions must be completed to be considered for grant award.

	7 in sections/questions must be ex	simpleced to be considered for grain award.				
Choose one:		Faculty Appointment (Semester and Year):Fall				
[] Creative Project [X] Research Project		ter and Year awarded) (if applicable):Spring 201 ASP (if applicable):X Yes No	1			
[A] Research Project	Final FRG report submitted to RA	ASP (II applicable):A 1 es No				
1. Project Title:	The Relationship between Tempo	erament and Cultural Competency				
2. Name of Principa	l Investigator/Project Director:	Elizabeth J. Sandell				
3. College (abbrev):	COE	4. Department:EEC				
5. Campus Mail Ado	dress:328AH	6. PI/PD Campus Phone:389-5713_				
7. Amount Requeste	ed: \$5,000.00	8. Total Cost of Project: \$7,200.00				
[] [X] animals/an [] [X] radioactive [] [X] hazardous [] [X] biological [] [X] copyright of the purcha NOTE: If the answer is justification for use/purcha One of the content of	e materials? materials? agents or toxins restricted by the U or patent potential? of space not currently available to a se of equipment/instrumentation/so a "yes" to any of the above questions, the rchases, including housing of animals. aculty member (6 or fewer acader ty:	SA Patriot Act? the PI/PD? ftware currently available to the PI/PD? the investigator must attach appropriate documentation of the investigator must attach appropriate documentation attach ap	f approval or			
Cover Page ((A)	Dissemination of results (F)	4			
Abstract (B) Purpose/obje	ectives (C)	Timeline and percent of time devoted Repeated request (G)	to project			
Significance	need (D)	Budget has only allowable expenses(F	4)			
Process for a	ttainment of objectives/goals (E)	Bibliography (if applicable) (I)	-/			
Vita (3 pages	s maximum) (J)					
15 pages with up to	5 pages of attachments to a maxim	spaced (except sections H-J), 12-point font, one-inclum total of 20 pages (excluding the cover page) for				
	n, and all pages numbered.	quirements will be eliminated without review.				
2.07		NATURES				
Eligibility:	Returning fixed term	Tenure-trackXTenured				
If CASH, Account N	oution (if applicable): \$ umber: vartment acknowledges responsibili	ty for the maintenance and upkeep of any equipmen	at purchased			
with grant funds.						
College Contributio		Chairperson	Date			
If CASH, Account N	umoer:	Dean	Date			
Date Stamp & Initial I	Receipt in the Office of Research and					

B. ABSTRACT

This project will examine the relationship between changes in Cultural Competency (in undergraduate students) and instructional strategies that involve intercultural community service learning, such as the Mahkato Wacipi PowWow. The study will respond to this research question: To what extent do intercultural service learning experiences affect changes in the Cultural Competency of undergraduate pre-service teachers? Cultural Competency, according to Hammer and Bennett (2010), may be defined as "the capability to accurately understand and adapt one's behavior to cultural difference and commonality." Data will be collected using the Intercultural Development Inventory (IDI), developed by Hammer and Bennett (2010.) The IDI is based on Bennett's Developmental Model of Intercultural Sensitivity (1986), which identifies five orientations toward cultural differences: denial, polarization, minimization, acceptance, and adaptation. Undergraduate students in the course Human Relations in a Multicultural Society (part of MSU's teacher preparation program) will complete the IDI at the beginning and at the conclusion of each semester, in order to measure changes in Cultural Competency that might be attributed to the intercultural service learning experiences (such as the Mahkato Wacipi PowWow) that are included in the course. The results of this study will help determine the efficacy of including intercultural service learning as one of the teaching methods used by the instructors to develop Cultural Competency.

C. PURPOSE / OBJECTIVES

This project will examine the relationship between changes in Cultural Competency (in undergraduate students) and instructional strategies that involve community services learning, such as the Mahkato Wacipi PowWow. The study will respond to this research question: To what extent do intercultural service learning experiences affect changes in the Cultural Competency of undergraduate pre-service teachers?

D. SIGNIFICANCE / NEED

Teacher preparation programs continue to recognize the need to incorporate cultural competence as a critical component (May, Collins-Chobanian, & Wong, 1994; Ladson-Billings, 1995; Villegas &

Lucas, 2002). Cultural competency, according to Hammer & Bennett, may be defined as "the capability to accurately understand and adapt behavior to cultural difference and commonality" (2010). In 2007, 4 out of 10 American students in public schools were from ethnic minority families (National Center for Education Statistics, 2007a). Furthermore, 90% teachers who work with these students were white (National Center for Education Statistics, 2007b). During the next 15 years, according to school analysts, there will be an even more diverse student population (Hernandez, Denton, & Macartney, 2008). There is a need for school professionals who can adequately recognize and meet the needs of this increasingly diverse student population (Sleeter, 2001).

This study relates to the COE mission statement: "Prepare professionals who embrace big ideas and real-world thinking to ensure student success" (College of Education, retrieved March 16, 2014 from http://ed.mnsu.edu/about/framework.html). The research will provide students and faculty members at MSU with collaborative, critical reflection about culture and education in diverse environments.

Furthermore, one of the requirements for teacher licensure in Minnesota is completion of a course such as Human Relations in a Multicultural Society. Historically, this course has included student learning of knowledge about various cultures in Minnesota. In a series of other research projects at MSU, Mankato, this principal investigator has explored various influences of elements in the Human Relations course on undergraduate students' cultural competency. These elements (e.g., team-based research, cultural partnership, and instructor) were less related to learning knowledge ABOUT other cultures and more related to reflections on actual experiences WITH other cultures.

The principal investigator has conducted several studies in cooperation with members of an undergraduate research team. In Fall, 2010, McNabb and Tupy (2011) used the IDI to measure baseline and changes in cultural competence for 49 undergraduate students who

completed a multicultural relations course. The course instructional strategies included self-assigned service learning and team-based library research projects. The study found no statistically significant differences between IDI scores at the beginning of the semester when compared to the end of the semester.

In Fall, 2011, Sandell and Tupy (2012) examined changes in cultural competency among 100 undergraduate students during a semester-long multicultural relations course. The course instructional strategies included a cultural partnership assignment with nine hours of interaction and an interview with a person from a culture other than the undergraduate student's own culture. And, rather than students assigning themselves for service learning, the course instructors assigned students directly to a community agency specifically with adults from other cultures. Results showed statistically significant differences between pre-instruction scores and post-instruction scores on the IDI.

Later, the principal investigator examined the variations in course instructor influence on changes in cultural competency among 87 undergraduate students who completed a multicultural relations course (Sandell, 2014). Overall results did show statistically significant differences between pre-instruction scores and post-instruction scores on the IDI. However, data analysis found no statistically significant differences between scores received by students among five different instructors.

E. PROCESS FOR ATTAINMENT OF OBJECTIVES / GOALS

The process for obtaining the objectives of this grant is delineated in the following paragraphs. An associated timeline is included below, in table format which highlights when specific tasks will be completed.

For 2014 – 2015, subjects will include 200 persons (100 each semester), who are between 18 and 30 years old, who enroll in EEC 222w (Human Relations in a Multicultural Society) during the

academic year. The study involves an assessment that will be used as part of the instructional strategy of the course. During class, the subjects will complete the assessment on-line at the beginning and conclusion of each semester. The results of the assessment are used to give feedback to students during the course. The data becomes archival data after the end of the semester. Minnesota State University, Mankato IRB published the Board Approval Letter Document related to this Project [530533-1] on IRBNet on October 23, 2013 (see attachment). Because this project and related projects are analyzing data that is collected as part of the course instruction, the IRB approved the project as exempt.

Students will complete the Intercultural Development Inventory (IDI) (Hammer & Bennett, 1998, 2001). The IDI consists of fifty, Likert-type items that can be answered in 20 to 30 minutes. The scale measures group intercultural sensitivity and is based on Bennett's Developmental Model of Intercultural Sensitivity (Bennett, 1986). The psychometric properties associated with the IDI have shown that it is useful for assessing training needs and identifying impact of interventions aimed at increasing intercultural competence.

All data collection will be complete in May, 2015. Data input into SPSS will take place in June and July, with further quantitative and qualitative data analyses commencing throughout the Summer semester. The investigator will use the group mean scores on five developmental scales to evaluate whether any significant indicators of change were observed in these areas of intercultural development. Data will be analyzed to determine the relationships between the changes in student cultural competency and the type of service learning in which the student participated. The quantitative data collected with the IDI will be analyzed by the investigator using the established IDI protocols and IBM ® SPSS ® Statistics Version 12.0 statistical analysis software (IBM Corp., 2012). This study will examine the IDI individual and group profiles to determine whether group characteristics were statistically significant. The alpha level for the analysis is set at α = .05. Differences will be determined to be significant if they were at the p < 0.05 level.

Timeline

		09/14 -			01/15 -		06/15 -
	08/14	12/14	12/14	01/15	05/15	05/15	08/15
	Start of	E 11 2014	End of	Start of Spring	Spring	End of Spring	Summer
	Fall 2014	Fall 2014	Fall 2014	2014	2015	2014	2015
Data Collection	X		X	X		X	
Course Instruction		X			X		
Data Input		X			X		X
Data Analysis	X			X			X
Conference Presentations		X			X		
Manuscript Preparation							Begins

F. DISSEMINATION OF RESULTS

Project results will be used by MSU, Mankato faculty members in designing and redesigning instructional strategies that impact students' cultural competency. The results will also be used by Project GEM and the Mahkato Wacipi PowWow in designing its intercultural community service learning programs.

Project results will be presented at local, state and national conferences, including the American Evaluation Association conference and the MSU Undergraduate Research Symposium. Submission in written form of project results will be submitted to teacher education journals, e.g., Journal of Teacher Education, Journal of College Teaching and Learning, American Journal of Education.

Results will also be presented at college-wide faculty information and training sessions for on-going communication of program/strategy progress. Project results will be shared with the

College of Education Bush Educational Initiative Director and Bush Foundation as part of program evaluation procedures.

Outcomes of the study will be used for program assessment by the College of Education and its Department of Elementary and Early Childhood. MSU will use this information in considering the effectiveness of its cultural diversity goal: experience diversity with supervised reflection and recognize and respond to conditions of marginalized populations.

G. REPEATED REQUESTS

In a series of research projects at MSU, Mankato, this investigator has explored various influences on undergraduate students' cultural competency. Some of these activities were supported by Faculty Research Grant #211729 between 07/01/11 and 4/30/13. FRG#211729 used the IDI to measure changes in cultural competence for 49 undergraduate students who completed a multicultural relations course in Fall 2010. The course instructional strategies included team-based library research projects. That study found no statistically significant differences between IDI scores at the beginning of the semester when compared to the end of the semester. FRG #211729 also supported a project that examined changes in cultural competency among 100 undergraduate students the multicultural relations course in Fall 2011. Those course instructional strategies included a cultural partnership assignment with nine hours of interaction and an interview with a person from a culture other than the undergraduate student's own culture. Results showed statistically significant differences between pre-instruction scores and post-instruction scores on the IDI after a course that involved a cultural partnership assignment.

In contrast to earlier FRG-supported activities, this project will examine the relationship between changes in Cultural Competency (in undergraduate students) and instructional strategies that involve intercultural community service learning, such as the Mahkato Wacipi PowWow. The study will respond

to this research question: To what extent do intercultural service learning experiences affect changes in the Cultural Competency of undergraduate pre-service teachers?

H. BUDGET FOR FACULTY RESEARCH GRANT

PI/PD Associate Professor 5 hrs/wk x 30 wks (in-load)
Student Para Professional 1(P1) (researchers) 2 persons x \$8.70/hr x 10 hrs/wk x 30 wks
Purchase of IDI for data collection: 100 students each semester x 2 semesters x \$11/IDI x
2 (pre/post) = \$4400. The cost of the IDI for pre-instruction assessment will be
contributed by the Department of Elementary and Early Childhood, College of
Education. The cost of the IDI for post-instruction assessment will be paid by the FRG.

CATEGORY	AMOUNT
Personnel (include graduate assistants and other student labor) <u>Justification</u> : Student Para Professional 1(P1) (researchers) 2 persons x \$8.70/hr x 5 hrs/wk x 30 wks	\$2800.00
Supplies, materials, and equipment <u>Justification</u> : Purchase of IDI for data collection: 100 students each semester x 2 semesters x \$11/IDI x 2 (pre/post) = \$4400.	\$4400.00
Copying/printing <u>Justification</u> :	
Communication Justification:	
Travel Justification:	
Other services Justification:	
Total Required	\$7200.00
Less Additional Contributed Funds	\$2200.00
TOTAL REQUESTED	\$5000.00

I. BIBLIOGRAPHY

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- Villegas, A. J. & Lucas, T. (2002) Preparing culturally responsive teachers: rethinking the curriculum, *Journal of Teacher Education*, *53*(1), 20–32.

J. APPLICATION VITA

Elizabeth J. Sandell Associate Professor

Department of Educational Studies: Elementary and Early Childhood 328 Armstrong Hall, Mankato, Minnesota 56001 Minnesota State University, Mankato Date of Hire: 2005; Date of Promotion: 2011

Office: (507) 389-1516
 elizabeth.sandell@mnsu.edu
web: http://mavdisk.mnsu.edu/sandee1/
March 9, 2014

Mission Statement

To teach and organize people in transition, so they grow in faith and hope, control their own decisions and resources, and use their gifts and talents.

Academic Background

University of Minnesota, Minneapolis, MN 1987-1991 Ph. D.

Major: Education/Early Childhood Minor: Psychological Foundations

University of Minnesota, Minneapolis, MN 1976-1980 M. A.

Major: Educational Administration Supporting field: Child Development

University of Minnesota, Minneapolis, MN 1971-1974 B. A.

Major: Social Welfare Supporting field: Child Development

Academic Experience

Interim Director, Undergraduate Research Center, Minnesota State University, Mankato, MN. 2014.

Associate Professor, Department of Educational Studies: Elementary and Early Childhood, College of Education, Minnesota State University, Mankato, MN. 2011 – present.

Assistant Professor, Department of Educational Studies: Elementary and Early Childhood, College of Education, Minnesota State University, Mankato, MN. 2005 – 2011.

Acting Director, Center for Excellence in Teaching and Learning, Minnesota State University, Mankato, MN. 2009.

Chairperson, Department of Educational Studies: Elementary and Early Childhood, College of Education, Minnesota State University, Mankato, MN. 2006 – 2008.

Academic and Creative Contributions

Blackhurst, A. E., Wenger, G. L., and Sandell, E. J. (2009). The Value of Undergraduate Research and Creative Activity in the Tenure and Promotion Process at Minnesota State University, Mankato. Monograph. Mankato, MN: Minnesota State University, Mankato.

McNabb, C., Tupy, S. J., and Sandell, E. J. (2011). *Change in Cultural Competency among Students during an Intentional Human Relations Experience* presented April 1, 2011, at the 2011 National Conference on Undergraduate Research. Ithaca, NY.

McNabb, C., Tupy, S. J., and Sandell, E. J. (2011). *Change in Cultural Competency among Students during an Intentional Human Relations Experience* in Proceedings of the 2011 National Conference on Undergraduate Research. Ithaca, NY.

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October 23, 2013

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Dear Elizabeth Sandell, PhD:

Re: IRB Proposal entitled "[530533-1] The Relationship Between Temperament and Cultural Competence"

Review Level: Level [1]

Your IRB Proposal has been approved as of October 23, 2013. On behalf of the Minnesota State University, Mankato IRB, I wish you success with your study. Remember that you must seek approval for any changes in your study, its design, funding source, consent process, or any part of the study that may affect participants in the study. Should any of the participants in your study suffer a research-related injury or other harmful outcome, you are required to report them to the IRB as soon as possible.

When you complete your data collection or should you discontinue your study, you must notify the IRB. Please include your log number with any correspondence with the IRB.

This approval is considered final when the full IRB approves the monthly decisions and active log. The IRB reserves the right to review each study as part of its continuing review process. Continuing reviews are usually scheduled. However, under some conditions the IRB may choose not to announce a continuing review. If you have any questions, feel free to contact me at irb@mnsu.edu or 507-389-5102.

Cordially,

Mary Hadley, Ph.D. IRB Coordinator

Sarah Sifers, Ph.D. IRB Co-Chair

ATTACHMENT agreement with collaborator

Project GEM 631 – 320th Avenue Pemberton, MN 56078 March 17, 2014

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Elizabeth J. Sandell, Ph.D. Associate Professor Department of Elementary Education Minnesota State University, Mankato

Dear Dr. Sandell,

This letter is to document our willingness for Project GEM to involve students from MSU, Mankato in the intercultural service learning experience at the Mahkato Wacipi PowWow in 2014 at the Land of Memories Park.

As Volunteer Coordinator for the Mahkato Wacipi PowWow, I am committed to service in the community and organizing applied learning experiences for students. This will be accomplished both through field education and service learning requirements before, during, and after the PowWow.

We appreciate that field education and service learning involve the completion of assignments in the local community that tie meaningful learning experiences directly to course content. Through reflective activities, service, and field seminars, we will support students' enhancement of their understanding of course content, sense of civic responsibility, self-awareness, professional development and commitment to the community.

We agree to model professional, ethical, and appropriate behavior when interacting with persons at the event. We will provide students with a complete tour of the site, in order to ensure that students are aware of all safety policies and emergency procedures and are able to act responsibly in case of an emergency.

Furthermore, we agree to participate in evaluation of the event, including analysis of content of students' (anonymous) reflection papers and analysis of (anonymous) data about the students' cultural orientations.

We look forward to working with you!

Sincerely,

[X electronic signature]

Alice DeYonge Executive Director gem7773@mchsi.com