Mentoring Undergraduates in Research

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Context for the Project

- UW-Eau Claire: UW System Center of Excellence for Faculty-Student Collaborative Research
 - Many on campus participate
 - Annual Student Research Day
 - CSD Department frequent contributor
 - First Author: 15 between 1995-96 and 2003-04
 - · Projects typically done one at a time
- ASHA's Focused Initiative: PhD Shortage in higher education
 - * "Limited role of research instruction in all levels of the curriculum" . . .
 - Seeks to increase "use of new models of education applicable for all levels"
- Project: An effort at the UW-Eau Claire to mentor undergraduate CSD students in research



- 4 studies completed
- 4 presented at Wisconsin Speech-Language Pathology and Audiology Professional Association -April 2006
- 4 presented at UW—Eau Claire 14th Annual Student Research Day May 2006
- 2 presented at UW System Undergraduate Research Symposium May 2006
- 3 presented at American Speech-Language-Hearing Association November 2006

Student Ratings

	Mean *	SD
Before this Experience:		
 I had limited knowledge of the research process. 	3.72	.79
 I had a strong desire to conduct research in CSD. 	3.83	1.03
 I had considered pursuing a doctoral degree in CSD. 	2.73	1.49
 After this Experience: 		
 I am better prepared to work collaboratively with others. 	4.50	.52
 I have a better understanding of the research process. 	4.67.	.49
 I am more interested in conducting research in the future. 	4.08	.79
 I feel better prepared to enter my master's program. 	4.00	.95
 I am more interested in pursuing a doctoral degree in CSD. 	2.75	.97
 I am a better consumer of research in the field of CSD. 	4.08	.79
Overall:		
 This research experience was a positive one for me. 	4.58	.52
 This experience has sparked my interest in research. 	3.83	.84
 I feel confident in my abilities as a researcher. 	3.81	.75

Mean reasons/student=4.58 (sd=1.17)

Student Reasons for Participating

To become more involved

in CSD as an undergraduate

To attend graduate school

collaborating with others

To make an impact on the

Similar interests as my

As a stepping stone to a

To gain experience

understanding of the

To have a better

research process

classmates

Other

master's thesis

N %

12 | 100

10 83

8 67

6 50

2 | 17

2 | 17

11 92

33



Expressed interest in research

December 2004

Timeline

 Informational meeting with mentor

January - May 2005

- Weekly 1-hr seminars with all students (N=16)
- Topics: research process and design, library research strategies, data analysis strategies, grant and scholarly writing
- Divided into four research teams:
 - Counseling Parents of Children Diagnosed with CAS (n=4)
 - Competence of Non-Native English-Speaking Clinicians: Parent Ratings (n=3)
 - District and CESA Suport for School-Based SLPs' Literacy Roles (n=5)
 - School-Based SLPs' Literacy and Roles and Practices (n=4)

August 2005 - May 2006

- Fifth research team added
 - Performance Equivalencies Across Two Measures of Phonology (n=4)
- All submitted proposals for internal funding
- All submitted IRB requests
- · Team's work paths varied
 - Fall 2005
 - Weekly 1-hr meetings of each team
 - Topics: specific issues relevant to each team
- Spring 2006
- As-needed meetings with faculty mentor
- Activities: data collection and analysis, interpretation, preparation for/ conducting presentations

Each student registered for 1 credit Directed Studies x Each Semester of Project

Lessons Learned

Student Reflections

- What have you gained from this experience personally?
 I have gained so many skills in learning to work as a member of a team, and not just an individual.
- What have you gained from this experience professionally?
 I have gained a better understanding and appreciation for research and its importance to the field.
- * How do you think this experience will benefit your future professional endeavors?
 I am now better prepared to work as a member of the countless teams I will be a part of. I also believe I am better prepared to be a consumer and possibly a producer of research and apply it to my practice.
- What could have made this experience more beneficial for you? At first, after completing the project, I felt like I could have benefited from a little more direction on how to handle the complications that emerged from our specific project, however now that I look back on it, I'm glad that our team was responsible for handling those complications because I feel like it gives me more ownership of the project and also helped to develop those skills.
- * Would you participate in an experience like this again? Why or why not? Absolutely! I think I grew both professionally and personally. I met really wonderful people and created a project that I couldn't be more proud of. It was an amazing learning experience.

Faculty Reflections

- Students
 Self-direction: All students must be ready/able to work independently
- Faculty
 Labor-intensive: Faculty time must be included in teaching load
- It takes a village: Interdepartmental collaboration and availability of technical support





^{♦ 26} upper division CSD