

## Capstone Log

### Instructional Technology Department

<b>Candidate:</b> Sarah Barnett	<b>Mentor/Title:</b> Kathy Thompson/Media Specialist	<b>School/District:</b> Woodland High School/Henry County Schools
<b>Capstone Title:</b> Evaluation of a First Year “Bring-Your-Own-Device” Initiative		

<b>Date</b>	<b>Activity/Amount of Time</b> <i>(Please total the time after the last entry.)</i>	<b>PSC/ISTE Standards</b>
August-September 2013	Researched possible topics; conducted preliminary research at school level; read articles, social media feeds for hot topics in education (4 hours)	4.1, 5.1, 6.1/ 5a, 4a, 6a, 6b
August-September 2013	Conducted research online and at a local college library; located articles related to 1:1 computing, BYOD, mobile devices in schools, TPACK, professional learning (15 hours)	5.1, 6.1/ 4a, 6a, 6b
September 2013	Created quantitative survey with optional open-ended questions; drafted with the Technology Focus Team at WHS (3 hours)	2.8, 5.3, 6.1/ 2h, 4c, 6a, 6b
September 2013	Created a bibliography and literature review map; wrote summaries for each relevant research article (15 hours)	5.1, 5.3, 6.1/ 4a, 4c, 6a, 6b
September-October 2013	Write introduction and methodology for the research proposal (5 hours)	5.1, 5.3, 6.1/ 4a, 4c, 6a, 6b
October 2013	Obtained preliminary approval at the school level (2 hours)	1.1, 4.2, 6.1/ 1a, 5b, 6a, 6b
November-December 2013	Combined introduction, methodology, and literature review; heavily revised literature review to provide topical overviews, rather than article-by-article summaries; submitted final research proposal (10 hours)	5.1, 5.3, 6.1/ 4a, 4c, 6a, 6b
December 2013	Requested IRB approval from Kennesaw; completed research certification (4 hours)	1.1, 4.2, 6.1/ 1a, 5b, 6a, 6b
<b>Reflection:</b>		
<p>Composing a research proposal was both a challenging and rewarding task. One of the most difficult components of this process was conducting a literature review. Even though the body of research on technology in schools is comparatively small, there is still a wealth of information that one must sift through in order to ground a new research proposal. A researcher simply needs a great deal of time to skim abstracts and read studies that provide background information for a new study. Obtaining research approval from Kennesaw’s Institutional Review Board was also a new endeavor for me that involved extensive writing and reconsidering elements of my proposal in order to ensure that it met safety and ethical regulations established by the IRB.</p>		
January 2014	Revised and finalized survey questions; prepared surveys for administering (creating Google Forms and printed paper copies) (4 hours)	2.8, 5.3, 6.1/ 2h, 4a, 6a, 6b

February 2014	Obtained final approval from school/county to conduct research (2 hours)	1.1, 4.2, 6.1/ 1a, 5b, 6a, 6b
March 2014	Scheduled data collection; collected data (digitized the paper copies); conducted data analysis for each research question; created charts/graphs, coded qualitative data (15 hours)	2.8, 5.3, 6.1/ 2h, 4a, 6a, 6b
March-April 2014	Composed results/analysis section of research report; revised proposal methodology section to use in the final research report; proofread/edited/revised final research report (15 hours)	2.8, 5.3, 6.1/ 2h, 4a, 6a, 6b
April 2014	Created digital presentation of results (3 hours)	2.8, 5.3, 6.1/ 2h, 4a, 6a, 6b
<b>Reflection:</b>		
<p>Administering the survey was a rather simple process, but analyzing the results for statistical significance was a challenging task for me. In the past, I would have simply used descriptive statistics, such as mean, median, and mode to describe data, but after completing the research course requirements, I was able to determine if differences in these values were actually statistically significant and draw important conclusions about the data I collected. One change I think I would make should I conduct another action research project would be to limit the number of research questions. I feel like I had too many research questions (6), which required me to do a good bit of analysis and discussion in the paper. I would suggest focusing on 1-2 research questions instead. Nevertheless, I am extremely proud of my efforts in completing this research proposal; not only did I learn more about the process of conducting research, but more importantly I provided my school with valuable data and analysis that will allow us to make targeted improvement next year as we expand our BYOD initiative.</p>		
June-July 2014	Created rough draft of capstone presentation; prepared capstone presentation; recorded/uploaded capstone presentation (10 hours)	2.8, 5.3, 6.1/ 2h, 4a, 6a, 6b
<b>Reflection:</b>		
<p>Creating the capstone presentation allowed me to continue refining my ability to use digital tools and resources to present data analysis and suggestions for school improvement. Although I originally had difficulty staying within the time guidelines due to the extensive nature of my study, I was able to revise and refine, focusing on the most essential elements of my research, to stay within the designated time limit.</p>		
Total Hours: [107 hours]:		

<b>DIVERSITY</b>								
(Place an X in the box representing the race/ethnicity and subgroups involved in this capstone.)								
Ethnicity	P-12 Faculty/Staff				P-12 Students			
	P-2	3-5	6-8	9-12	P-2	3-5	6-8	9-12
<b>Race/Ethnicity:</b>								
Asian				X				
Black				X				
Hispanic				X				

Native American/Alaskan Native				X				
White				X				
Multiracial				X				
<b>Subgroups:</b>								
Students with Disabilities								
Limited English Proficiency								
Eligible for Free/Reduced Meals								