

Outline

What is my project?
Rubric development – Halting steps
Using the rubric – An example
Questions

My project

- 2016/17 Academic year
- Research subjects 33 freshman students in IEE1020 Technical Communications
- WMU HSIRB Approval #16-04-36
- Assessment Fellows Grant (WMU)

How do freshman engineering students come up with topics and thesis statements for their research papers?

How focused are those final thesis statements?

Three Data Collection Methods

- A biweekly survey given to students as they researched and wrote their papers
- An end-of-semester qualitative interview
- Assessment of thesis statements from final papers.
 Figure 2: Bubic for Analyzing Student Research Topics
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 - **Fall 2016**: 6
 - **Spring 2017**: 23

		alyzing Student Research Topic	
	Exemplary – 3 points	Developing – 2 points	Beginning – 1 point
Researchability	Final topic selection is able	Final topic selection is able	Final topic selection is
	to be challenged,	to be challenged, examined,	not researchable
	examined, or analyzed by a	or analyzed by a novice	because the topic
	novice researcher with a	researcher, but there are	cannot be challenged,
	variety of readily available	potential issues around	examined, or analyzed
	resources (both scholarly	feasibility and/or access of	by resources readily
	and popular) in a feasible	information resources.	available to a novice
	amount of time.	There may be too much or	researcher in a feasibl
		too little information	amount of time.
		available on this topic, only	
		one kind of source that	
		addresses this topic (i.e.	
		only scholarly or only	
		popular), or other issues	
		with time and access.	
Appropriate	Topic is manageable for a	Topic is too broad or narrow	Topic is so broad or
Breadth (12-13	12-13 page research	for a 12-13 page paper, but	narrow that it is not
pages)	paper. The student defines	the student has defined	manageable for a 12-
	who is affected, what	some areas of their subject.	13 page research
	aspect of the issue they	The topic is somewhat	paper; the student
	will deal with, what time	manageable for this	does not specifically
	frame they will be	assignment but requires	define various aspects
	researching, and where	further	of their subject (who.
	their issue is present.	specificity/development in 2	what, when, where).
		areas (who, what, when,	Extensive revision is
		where).	required.
Topic-Related	Topic-related vocabulary is	Topic-related vocabulary is	Topic-related
Vocabulary	used to provide language	used to provide some	vocabulary is not used
and	context for the topic.	language context. However,	and, therefore,
Language	Useful search terms can be	it is either not well-defined	language context is no
Context	derived from topic	or not helpful for	established. No search
	statement.	developing search terms	terms can be derived
		from topic statement	from topic statement.
End Result as	Final topic statement is	Final topic statement is	Final topic statement
Arguable Topic	thesis-driven and contains	general. Asks a "how" or	too general and/or no
-Boose Lobic	an argument. Student can	"why" question that could	argument-driven. Ask
	proceed to the research	lead to analysis or the	a ves/no or "factual"
	process but may have to	development of an	question that does no
	reflect back on the scope	argument. Revision and	facilitate analysis or
	of the assignment.	further definition required	argument. As it stand:
	or the assignment.	before proceeding to the	the resulting paper
		research proceeding to the	would be solely
		research process.	information-based.
	1		information-based.

Rinto, Bowles-Terry & Santos, A. J. (2016).

Looked at first-year students' paper topics for:

- Researchability (given library resources)
- Appropriate breadth
- Language context
- Presence of an arguable topic

Rinto, Bowles-Terry & Santos, A. J. (2016).

Beginning – 1 point
Developing – 2 points
Exemplary – 3 points



Carrie Leatherman - Natural Sciences Michael Duffy - Music, Dance and Fine Arts

LuMarie Guth - Business

Reviewer initials:

Date:

Purpose and Audience The purpose of this paper is to show the advantages and disadvantages of using nanotechnology in cancer research. There are different ways that nanotechnology can be used and those will be covered in this paper. The effectiveness and safety of nanotechnology will be compared to the practices used for treating cancer today. This paper is for the general understanding and education about nanotechnology in the field of cancer research and is written for the general public. Most terms that are unfamiliar will be defined for the ease of the reader and for clarification.

what

Rubric Category	Score (points)	Notes
Researchability	3	While topic is not well-specifiet, Alis is researchable given current library résauces.
Appropriate Breadth (12-13 pages)	1	Student does not specify which types of cancer, nor does he/she specify what specific nanotechnolog techniques will be covered.
Topic-Related Vocabulary and Language Context	1	Not enough just to use cancer or nanotechnology. Then anspecific technology. to reter to. drug delivery name particles
End Result as Arguable Topic	1	No real argument

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Colleague suggestions

Revise rubric – remove "Researchability"
Write down "tacit" or unspoken criteria
Provide sample language

Using the Rubric: An example

Acknowledgements

 Carrie, Michael, LuMarie
 Dr. David Reinhold and Office of Undergraduate Student Assessment
 Erin Rinto (and colleagues) for use of rubric

Contact me@

Edward Eckel
edward.eckel@wmich.edu
269-387-5140
Western Michigan University Libraries

References

Johnson, R. L., Penny, J., Gordon, B., Shumate, S. R., & Fisher, S. P. (2005). Resolving Score Differences in the Rating of Writing Samples: Does Discussion Improve the Accuracy of Scores? *Language Assessment Quarterly*, 2(2), 117– 146. doi:10.1207/s15434311laq0202_2

Kim, Boram. (2011). Resolving discrepant ratings in writing assessments: The choice of resolution method and its application. *English Teaching*, 66(2), 211-231.

Moskal, B. M., & Leydens, J. A. (2000). Scoring rubric development: validity and reliability. *PARE: Practical Assessment, Research & Evaluation, 7*(10), 1–10. Retrieved from <u>http://pareonline.net/getvn.asp?v=7&n=10</u>

Oakleaf, M. (2009). Using Rubrics to Assess Information Literacy: An Examination of Methodology and Interrater Reliability Megan. Journal of the American Society for Information Science and Technology, 60(5), 969–983. doi:10.1002/asi.21030

Rinto, E., Bowles-Terry, M., & Santos, A. J. (2016). Assessing the scope and feasibility of first-year students' research paper topics. College & Research Libraries, 77(6), 749–764. doi:10.5860/crl.v77i6.16554

