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#### ABSTRACT

The purpose of this study is to determine whether college juniors and seniors view their freshman-writing instruction as beneficial and to assess its impact on the writing they do within their specific disciplines. Although a great deal of theory surrounds the teaching of freshman writing, very little research has been done to assess its effectiveness from the students' point of view once they start writing within their disciplines. The present research, utilizing a survey which was administered to a sample of 297 juniors and seniors at three colleges/universities in the Hampton Roads area of Virginia, primarily address the following questions: (1) How do students assess the value of their freshman-writing instruction?; (2) How does a non-discipline-specific freshman-writing curriculum impact discipline-specific writing challenges?; and (3) Is the writing in a student's chosen discipline more valuable to her than the instruction and practice she found in her freshman-writing program? Results indicate that students' perceptions about the value of freshman writing vary according to their majors. Findings suggest that students in the humanities and social sciences rated the writing they do in their disciplines as being more valuable than that which they did in their freshman writing classes, and students in business, engineering, and technology thought the reverse. (Contains 7 tables of data and a sample 11-page student questionnaire.) (Author/CR)

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And the Survey Says: How Students Assess the Value of Freshman-Writing Programs

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#### ABSTRACT

The purpose of this study is to determine whether college juniors and seniors view their freshman-writing instruction as beneficial and to assess its impact on the writing they do within their specific disciplines. Although a great deal of theory surrounds the teaching of freshman writing, very little research has been done to assess its effectiveness from the students' point of view once they start writing within their disciplines. The present research, utilizing a survey which was randomly administered to a sample of juniors and seniors at three colleges/universities in the Hampton Roads area of Virginia, primarily addresses the following questions: 1) How do students assess the value of their freshman-writing instruction? 2) How does a non-discipline-specific freshman-writing curriculum impact discipline-specific writing challenges? 3) Is the writing in a student's chosen discipline more valuable to her than the instruction and practice she found in her freshman-writing program?



And the Survey Says: How Students Assess the

Value of Freshman-Writing Programs

Judith D. Mercier and Peter J. Mercier

This research originated in conversations with fellow teachers of composition. Debating whether or not we could ever evaluate what a student had really learned about writing, we wondered how we could measure if what we taught in non-discipline specific writing courses benefited students once they began writing in their chosen majors. For many of us, the hardest part of teaching freshman composition is grading. For me, it's never difficult writing comments and questions and suggesting ideas for revision—my creative—writing workshop classes make that sort of critical response second nature to me. It's the decision on a letter or number grade which always gives me pause. Every semester, I try new grading rubrics and go about tabulating, adding, dividing, averaging, eventually giving students some quantitative measure of what I think they have learned about writing.

This study attempts to reverse the teacher-student position on assessment by asking college juniors and seniors to evaluate what they think they learned about writing in their freshman composition classes. It also seeks to measure students' perceptions concerning what learning takes place about writing in the classes directly related to their major disciplines of study. In other words, where do students believe they best acquire the



writing skills they need for academic success? Do the skills they acquire through non-discipline specific composition classes satisfy the writing demands they face once they begin to write in their majors? What majors are best and least served by non-discipline specific composition courses?

#### **METHODS**

In an effort to answer these questions, we surveyed 297 college juniors and seniors in a cross-sectional study, sampling students from three universities in the Tidewater, VA, area--Old Dominion University, Christopher Newport University, and Norfolk State University. Our instrument is a Likert-type questionnaire, measuring responses based on a continuum of agreement. questionnaire consists of three sections. One section measures demographics only. In another section, we ask students to assess 52 items related to skills they believe they acquired during freshman-writing classes. Finally, we ask them to assess the same 52 items, this time having to do with the skills they believe they have developed while writing in their major fields of study. For the purposes of reporting, the 52 items have been divided into four categories, a taxonomy based on four of the five classical rhetorical canons--25 items measure skills of invention, 9 items skills of arrangement, 9 items skills of style, and 9 items skills of delivery or presentation. For example, items categorized under invention include pre-writing strategies for discovering ideas; finding credible source



material; reading critically; summarizing, paraphrasing, and synthesizing source material; understanding when and how to use definition, narration, classification, comparison-contrast, cause and effect; and establishing a thesis or claim. Arrangement items include developing paragraphs with proofs, writing controlling sentences, ordering supporting material, ordering sentences within paragraphs, using transitional devices, and organizing paragraphs. Style items concern sentence clarity, word choice, conciseness, coordination and subordination, and grammatical conventions. Delivery items focus on formatting, citing sources, mechanics, and punctuation.

Using a numerical score from one to four, students could choose a response of "strongly disagree," "disagree," "agree" or "strongly agree" for each item. After scaling this questionnaire for internal consistency, it was found to be highly reliable at 98%. The methodology for this study is detailed in Table 1.

Table 2 describes the sample's characteristics. Among those surveyed, 56% are white, 33% African-American, with the remaining 11% Hispanic, Asian-American, and other racial categories. The sample is almost equally divided between males and females and college juniors and seniors. Majors were divided into six discipline areas, our sample consisting of 1% business students; 15% humanities students; 10% education students; 15% natural science students; 43% social science students; and 17% engineering and technology students. The mean age in our sample is 25.



#### RESULTS

Table 3 illustrates the differences between the mean averages students gave their freshman-writing classes and the writing they do in their majors for the classical canon of invention. for this canon are based on a 100-point scale. From these results, it appears that students in business and in engineering and technology scored their freshman-writing classes higher than the writing they do in their discipline when considering where they acquired skills related to invention. However, students in the discipline areas of the humanities, education, natural sciences, and social sciences place greater value on the writing they do in their discipline for acquiring skills in invention. In the humanities, natural sciences, and social sciences, these differences are statistically significant, indicating a 95% certainty that these results are not due to chance. In other words, similar results are likely to occur in repeat studies with different samples of the same population.

Table 4 shows the differences between the mean averages students gave their freshman-writing classes and the writing they do in their majors for the classical canon of arrangement.

Scores for this canon are based on a 36-point scale.

Like table 3, students in humanities, education, natural sciences, and social sciences placed more value on the writing they do in their majors when considering skills of arrangement.

However, none of the results here are statistically significant.



Business and engineering and technology students continued to assess their freshman-writing classes as more valuable.

Table 5 depicts the differences between the mean averages students gave their freshman-writing classes and the writing they do in their majors for the classical canon of style. Scores for this canon are based on a 36-point scale. For this canon, students in the humanities, education, and social sciences rated the writing they do in their discipline as more valuable. However, students in business, natural sciences, and engineering and technology determined their freshman writing classes as more valuable. There are no statistically significant differences in this table.

Table 6 reflects the differences between the mean averages students gave their freshman-writing classes and the writing they do in their majors for the classical canon of delivery or presentation. Scores for this canon are based on a 36-point scale. When considering the canon delivery, students in business, education, natural sciences, and engineering and technology assessed their freshman writing classes as being more valuable. Only students in humanities and social sciences gave a higher rating to the writing they do in their majors for this canon. There are several sadistically significant differences found in this table. The first concerns students in the business and engineering and technology disciplines who rate freshman writing classes as more valuable for skills acquired in presentation or delivery. The second statistically significant



difference involves only those students in the humanities. Here we see that they rate the writing they do in their discipline as more valuable when considering this canon.

Our last table reveals how students responded to the question "Did your freshman-writing class prepare you for the writing you do in your major?" The majority of students in education and engineering and technology did believe that their freshman-writing classes had prepared them for the writing they do in their majors. Students in business, humanities, and social sciences seem almost evenly divided in their responses. Students in the natural sciences, however, felt, by majority, that their freshman-writing classes did not prepare them for the writing they do in their major.

#### Conclusion

We would be remiss if we failed to mention that this study does have several limitations. First, our study used what is known as a "convenience" sample--classes with professors who readily agreed to having their students surveyed were chosen for sampling. Therefore, because we employed no random sampling methodology, the results of this study can not be generalized. We would like to see this study replicated using randomization or convenience sampling in other geographic locations. Second, students' assessments of freshman-writing classes were based on their recollections, and a small percentage of students in this sample revealed that it had been more than 4 years since they



completed their course work in freshman writing. Finally, there is no way to guarantee that students responded to survey items honestly.

The results of this study suggest that students' perceptions about the value of freshman writing vary according to their majors. Consistently, sample students in the humanities and social sciences rated the writing they do in their discipline as being more valuable than that which they did in freshman writing classes. On the other hand, students in business and engineering and technology consistently assessed their freshman writing classes as more beneficial than the writing they do in their disciplines. This study also reveals that students, regardless of major, more often viewed their freshman writing classes as helping them acquire skills related to style and delivery--those canons which focus on items concerning sentence structure, grammatical conventions, mechanics, and punctuation. However, in relationship to developing skills in invention and arrangement, students from four discipline areas rated the writing they do in their disciplines as more valuable. This, as we have seen, is particularly true with invention, an indication, perhaps, that discipline-specific writing may, in fact, stimulate students to think more critically, to seek out information, to feel more confident about having something to say.

As writing teachers, this study may encourage us to redesign our courses to more satisfactorily meet the needs of students from a variety of discipline areas. This, of course, means



tailoring assignments to each student according to his or her chosen major. It also involves exposing students to examples of quality writing in subjects outside our own areas of expertise and helping them analyze how they work and why they are effective. It means forging stronger links between our freshman-writing programs and other departments. For some of us, it may mean changing the ways we typically evaluate writing and developing a greater appreciation for the written discourse of social scientists, historians, mathematicians, and botanists. Though many of us feel we already have plenty on our "teaching plates," this study motivates us to believe that these extra efforts may increase the odds of what we all already desire and ofttimes accomplish—teaching students to write well in every discipline.



### Table 1. Methods

N = 297

Instrument: Likert-type questionnaire (3 sections)

Response categories:

1 = Strongly Disagree

2 = Disagree
3 = Agree

4 = Strongly Agree

Section 1 - Demographics

Section 2 - What students learned in their freshmanwriting class

### Rhetorical Canons

Invention: 25 items (Scale = 25 to 100)
Arrangement: 9 items (Scale = 9 to 36)
Style: 9 items (Scale = 9 to 36)
Delivery: 9 items (Scale = 9 to 36)

Section 3 - What students learn in the writing they do for their majors/disciplines

### Rhetorical Canons

Invention: 25 items (Scale = 25 to 100)
Arrangement: 9 items (Scale = 9 to 36)
Style: 9 items (Scale = 9 to 36)
Delivery: 9 items (Scale = 9 to 36)



Table 2. Sample Characteristics

Variable	N	Percentage
Race/Ethnicity:		
Caucasion	166	56.1
African-American	98	33.1
Hispanic	5	1.7
Asian/Pacific Islander	8	2.7
Other¹	19	6.4
Sex:		
Male	132	44.8
Female	163	55.2
Class Standing:		
Junior	150	50.7
Senior	146	49.3
College:		
Christopher Newport	106	35.7
Old Dominion	97	32.7
Norfolk State	94	31.6
Disminlines		
Discipline: Business	3	1.0
Humanities	42	14.5
Education	28	9.7
Natural Sciences	43	14.8
Social Sciences	124	42.8
Engineering/Technology	50	17.2
Engineering/reciniorogy	50	1/.2

### Age:

Mean = 25.12Range = 19 - 49

### GPA:

Mean = 3.01

Range = 1.96 - 4.00



<sup>&#</sup>x27;Includes Native American, alien, and other categories.

Table 3. Mean Difference on a 100-Point Scale Where Students
Believe Their Learning Takes Place: Rhetorical Canon
Invention, by Discipline

	<u>Freshman</u> W	<u>riting</u>	Discipline Writing
Discipline	Mean	SD	Mean SD
Business	68.00*	4.4	63.33* 11.6
Humanities	69.47*	8.5	75.18* 11.5
Education	71.00	7.0	72.44 7.1
Natural Sciences	67.13*	8.3	70.00* 9.3
Social Sciences	71.42*	11.0	75.30* 12.2
Engineering/ Technology	72.33*	13.4	68.54* 17.5

<sup>\*</sup>p < .05



Table 4. Mean Difference on a 36-Point Scale Where Students
Believe Their Learning Takes Place: Rhetorical Canon
Arrangement, by Discipline

	Freshman W	riting	Discipline Wr	<u>iting</u>
Discipline	Mean	SD	Mean	SD
Business	26.00	1.0	23.33	4.7
Humanities	25.46	4.1	26.95	4.5
Education	25.89	3.3	26.51	3.7
Natural Sciences	25.12	3.0	26.48	4.2
Social Sciences	25.05	4.1	27.40	4.8
Engineering/ Technology	26.34	5.0	24.10	7.4



Table 5. Mean Difference on a 36-Point Scale Where Students
Believe Their Learning Takes Place: Rhetorical Canon
Style, by Discipline

	<u>Freshman W</u>	riting	Discipline Writing
Discipline	Mean	SD	Mean SD
Business	27.67	6.1	23.67 4.9
Humanities	25.20	4.0	26.49 5.6
Education	25.48	3.9	26.19 3.4
Natural Sciences	26.12	3.6	24.92 4.1
Social Sciences	25.69	5.2	26.53 5.2
Engineering/ Technology	26.52	5.5	23.98 7.2



Table 6. Mean Difference on a 36-Point Scale Where Students
Believe Their Learning Takes Place: Rhetorical Canon
Delivery, by Discipline

<u>Freshman W</u>	riting	<u>Discipline Writing</u>
Mean	SD	Mean SD
26.00*	4.6	24.33* 5.5
25.74*	4.6	27.80* 4.8
26.71	3.9	26.36 4.0
25.98	4.1	24.79 4.5
26.19	5 <b>.4</b>	27.46 5.2
26.94*	5.4	23.38* 7.7
	Mean 26.00* 25.74* 26.71 25.98 26.19	26.00* 4.6 25.74* 4.6 26.71 3.9 25.98 4.1 26.19 5.4

p < .05



Table 7. Percentage of Students Who Believe That Their Freshman-Writing Curriculum Prepared Them for the Writing They Do in Their Majors

<u>Discipline</u>	Yes	No	
Business	0.7	1.7	
Humanities	14.5	15.0	
Education	10.1	9.2	
Natural Sciences	12.5	17.5	
Social Sciences	44.0	44.1	
Engineering/ Technology	18.2	12.5	
Total	100.0	100.0	



Part 1. For each statement below, please check the response THAT BEST DESCRIBES your point of view or experience concerning WHAT YOU REMEMBER LEARNING in FRESHMAN-WRITING (composition) CLASS.

# IN MY FRESHMAN-WRITING (composition) CLASS, I learned:

	Strongly Disagree	Disagree	Agree	Strongly Agree
how to develop ideas for writing				
how to brainstorm				
how to freewrite				
how to cluster				
how to conduct research				
how to read more carefully				
how to paraphrase others' written ideas				
how to summarize main points				
how to critique others' written ideas				
how to synthesize multiple sources				
how to focus a topic				
how to write a thesis sentence				
how and when to define terms				
how and when to describe people, places, and things	<u> </u>			



	Strongly Disagree	Disagree	Agree	Strongly Agree
how and when to narrate events				
how and when to compare or contrast				
how and when to classify people, places, and things				
how and when to show cause or effect				
how to consider my audience (readers)				
how to write persuasively	<i>/</i>			
how to explain concepts				
how to evaluate others' arguments				
how to identify faulty logic (fallacies)				
how to write introductory paragraphs	<i>-</i>			
how to write conclusions				
how to develop paragraphs	s			
how to write controlling (topic) sentences				
how to use supporting material (i.e. proof, evidence)				
how to organize supporting material within a paragraph	ng 			
how and when to use examples				



	Strongly Disagree	Disagree	Agree	Strongly Agree
how and when to use statistics		·		
how and when to use authoritative opinions				
how to organize multiple paragraphs				
how to transition from one paragraph to the nex	t			
how to write clear sentences				
how to show connections between ideas				
how to combine sentences (coordination)				
how to show emphasis (subordination)				
how to improve my word choice (vocabulary)				
how to be more concise				·
how to identify grammatical errors				
how to correct grammatical errors				
how to use metaphors				
how to format a formal research paper				
how to format an essay (i.e. paragraph structure, indent new paragraph)				



	Strongly Disagree	Disagree	Agree	Strongly Agree
how to cite sources within my own text				
how to document sources in a bibliography				
how to spot punctuation errors				
how to correct punctuati errors	on 			
how to spot spelling errors				
how to correct spelling errors				
how to spot mechanical errors (i.e. capitalizat abbreviations, italics)	ion,			
how to critique others' writing				
how to revise my own writing				
how to edit my own writing				
how to work effectively in groups (collaborate)				
how to write exam essays				
how to use word- processing				

Part 2 is continued on the next page.



Part 2. For each statement below, please check the response THAT BEST DESCRIBES your point of view or experience concerning WHAT YOU LEARNED ABOUT WRITING IN YOUR MAJOR/ACADEMIC DISCIPLINE.

# In the WRITING I do FOR MY MAJOR, I learned:

	Strongly Disagree	Disagree	Agree	Strongly Agree
how to develop ideas for writing				
how to brainstorm				
how to freewrite				
how to cluster				
how to conduct research				
how to read more carefully				
how to paraphrase others' written ideas				
how to summarize main points				
how to critique others' written ideas				
how to synthesize multiple sources				
how to focus a topic				
how to write a thesis sentence				
how and when to define terms				
how and when to describe people, places, and things				
how and when to narrate events				



	Strongly Disagree	Disagree	Agree	Strongly Agree
how and when to compare or contrast				
how and when to classify people, places, and things				
how and when to show cause or effect				
how to consider my audience (readers)				
how to write persuasively	<i>/</i>		<del></del>	
how to explain concepts				
how to evaluate others' arguments				
how to identify faulty logic (fallacies)				
how to write introductory paragraphs	<i></i>			
how to write conclusions				
how to develop paragraphs	5			
how to write controlling (topic) sentences				
how to use supporting material (i.e. proof, evidence)				
how to organize supporting material within a paragraph	ng 			
how and when to use examples				
how and when to use statistics				
how and when to use authoritative opinions				



	Strongly Disagree	Disagree	Agree	Strongly Agree
how to organize multiple paragraphs				
how to transition from o paragraph to the next	ne ———			
how to write clear sentences				
how to show connections between ideas				
how to combine sentences (coordination)				
how to show emphasis (subordination)				
how to improve my word choice (vocabulary)				
how to be more concise				
how to identify grammatical errors				
how to correct grammatical errors				
how to use metaphors				
how to format a formal research paper				
how to format an essay (i.e. paragraph structure, indent new paragraph)				
how to cite sources within my own text				
how to document sources in a bibliography				
how to spot punctuation errors				



	Strongly Disagree	Disagree	Agree	Strongly Agree
how to correct punctuatio errors	n ———			
how to spot spelling errors				<u> </u>
how to correct spelling errors				
how to spot mechanical errors (i.e. capitalizati abbreviations, italics)	on,			
how to critique others' writing				
how to revise my own writing				
how to edit my own writing				
how to work effectively in groups (collaborate)				
how to write exam essays				
how to use word processing				
Part 3. ABOUT YOU:	best descr	appropriate ribes your a ill in the l te.	answer to	o each
What is your age?	_			
What is your sex?	_			
What is your class standi	ng?			
	Senior			



What	is you	r rac	ce?					
		Asiar	n/Pacific	Islander		_Native	American	
		Hispa	anic _	Afri	can-Americ	an _	Whi	te
		Other	•					
What	is you	ır mar	rital stat	tus?				
		_Sing]	le, never	married		Living	with pa	rtner
		Marri	ied _	Separ	ated _	Div	orced	
		_Widov	ved					
Which	best	descr	ribes the	place whe	re you liv	e?		
		A hou	ıse _	An ap	artment		Dormitor	У
		Other	(please	specify)				
What	salary	rang	ge best de	escribes y	our person	al incom	ie?	
		Less	than \$10	,000	\$10	,001 to	\$20,000	
		\$20,0	001 to \$30	0,000	\$30	,001 to	\$40,000	
		\$40,0	001 to \$50	0,000	Mor	e than \$	50,000	
In wh	nat col	lege	or unive	rsity are	you curren	tly enro	lled?	
		Old I	Dominion (	University				
		Norfo	olk State	Universit	У			
		Chris	stopher Ne	ewport Uni	versity			
From	which	colle	ege or un	iversity d	o you inte	nd to gr	aduate?	
Do yo		word	processor	rs/compute	rs to draf	t essays	and res	earch
		Yes		No				
					do you us			s and



. 9

	use word and resea			for your final revisions of	
_	Yes		No		
				you use to finalize your papers?	
				t were the most valuable riting (composition) class.	
				riting (composition) class your major?	
_	Yes		No		
		_	classes?	YesNo	
If	so, which	classes?			
	at college osition) cl		sity did you	take your freshman writing	
_	old [	ominion Un	niversity		
Norfolk State University					
Christopher Newport University					
_	Thomas Nelson Community College				
_	Tidewater Community College				
_	Other	(please s	specify		
What i	s your cur	rent GPA?_			
What i	s your maj	or?			
	Accou	ınting		Aerospace Engineering	
_	Art			Biological Sciences	
_	Busin	ess Admini	stration	Chemistry	
_	Commu	nications		Civil Engineering	
_	Compu	ıter Engine	ering	Computer Science	
_	Couns	eling		Criminal Justice	



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Psychology	Public Administration
Sociology	Statistics
Theater	Urban Studies
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Other (please specify	)



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