A Report on Faculty Perceptions of Students' Information Literacy Competencies in Journalism and Mass Communication Programs: The ACEJMC Survey

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This article presents the results of a survey done of the faculty of programs fully accredited by the Accrediting Council on Education in Journalism and Mass Communications (ACEJMC) in 2002–2003. The purpose of the survey was to assess the faculties' perceptions of their students' information literacy skills as defined by the ACRL standards adopted in 2000. Faculty reported that most of their graduate students met the ACRL criteria for information literacy, but only some of their undergraduate students could be considered information literate by these standards. Faculty also reported consistent improvement in their students' research process after receiving library instruction.



hroughout its history and in the current discussion of the status of journalism and mass communication (JMC) educa-

tion in higher education, emphasis on the student acquiring a breadth of knowledge coupled with practical journalistic skills has been consistent. The Accrediting Council on Education in Journalism and Mass Communications (ACEJMC), which grants accreditation to such programs, adopted revised standards in September of 2003 that delineate nine standards with indicators and examples of evidence for each by which JMC programs will be evaluated for accreditation as of September 2004. In standard #2 on curriculum and instruction, the ACEJMC identifies critical thinking and the ability to "conduct research and evaluate information by methods appropriate for the communications professions in which they work" as professional competencies.¹ Additionally, the ACEJMC standards for accreditation include the provision of adequate library and information resources as an indicator of the administration's efforts to maintain and fulfill the program's mission (Standard 7: Resources, Facilities, and Equipment).²

Seventeen years prior, in the 1987 report, Planning for Curricular Change: A Report on the Project on the Future of Journalism and Mass Communication Education,

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the authors stated that information gathering was one of five basic competencies journalism educators agreed their graduates should have.³ In a discussion of the debate over whether journalism should be approached as an academic discipline, Betty Medsger, in her 1996 report, *Winds of Change: Challenges Confronting Journalism Education*, stated that the debate itself reveals:

a lack of understanding of the intellectual nature of the skills of journalism...that these skills fall under the category of 'intellectual,'...[the skills of] research, critical thinking, organization of material and clear expression...the key skills the university tries, but often fails, to teach all students as essential parts of their liberal education."⁴

These skills have evolved in higher education as the notion of information literacy (a term that has been in the vernacular of higher education since 1974).⁵ In January 2000, information literacy became formalized in higher education with the endorsement by the American Association for Higher Education of the standards established by the Task Force on Information Literacy Competency Standards of the Association of College and Research Libraries (ACRL). In defining information literacy, the task force made the statement, "The sheer abundance of information will not in itself create a more informed citizenry without a complimentary cluster of abilities necessary to use information effectively."6 The task force delineated five standards, each with extensive performance indicators and outcomes. In defining information literacy, the task force stated that an information-literate person would be a person who is able to:

• Determine the extent of information needed

• Access the needed information effectively and efficiently

• Evaluate information and its sources critically

• Incorporate selected information into one's knowledge base

• Use information effectively to accomplish a specific purpose

• Understand the economic, legal, and social issues surrounding the use of information, and access and use information ethically and legally⁷

The assumption is that through achievement of these abilities, the citizenry will become effective information users and "life-long learners."8 Given the striking parallel between these abilities and the tools professionals working in JMC use every day, and acknowledging the directives from various sources that research competency be expected of, and appropriate training be provided for, students in JMC programs, a survey was done to assess how the information literacy skills of this student population are perceived by their faculty and how library instruction is being provided and integrated into the curriculum as a means of building research competencies.

Research Rationale

In order to assess faculty perceptions of JMC students' information literacy skills and the rate and impact of library instruction in JMC curricula, a survey was created to appraise the following:

• How frequently do faculty teaching students in JMC programs give assignments requiring library research?

• How frequently do faculty teaching students in JMC programs integrate library instruction into their courses?

• What do faculty report is the impact library instruction has on the research skills of JMC students?

• What research skills and practices do faculty report students in these programs possess?

• How do faculty of students in JMC programs perceive their students' information literacy skills as defined by the ACRL standards?

To answer these questions, the fulltime faculties of all programs holding full accreditation by the ACEJMC during 2002–2003 were surveyed. This article is a descriptive report on the results of that survey and presents the data for undergraduate and graduate students in four sections: library instruction, impact of library instruction, information literacy assessment, and student research skills and practices.

Methodology

In May 2002, 1,908 surveys were sent to full-time faculty teaching in programs holding full accreditation by the ACE-JMC. Programs and faculty were identified through the listing of accredited programs for 2002-2003 posted on the ACEJMC Web site. A database of programs and faculty was created based on the listing and a mailing was generated, with each faculty member being sent a letter of introduction and explanation, a survey, and a postage-paid return envelope. Faculties were asked to return the survey by November 2002. Four hundred and twenty-five usable surveys were received resulting in a 22.3 percent return rate. The data were entered into the Statistical Package for the Social Sciences (SPSS, version 11) software for analysis. This article reports on the responses to seventeen of the twenty-six questions posed to faculty, the content of which would be of interest to the audience of this publication: academic and special librarians.

Survey Instrument

The survey instrument was a questionnaire consisting of twenty-six items that were measured using a Likert-type scale. The range of responses on the majority of the items were: every/all, most, some, few, none, N/A, cannot judge; excellent, strong, adequate, poor, N/A, cannot judge. One question required a response of agree, disagree, or do not know, and one question required a response of either improved, made no difference in, or confused. There also was one open-ended question to which faculty could write in any information-seeking skills they believed a student being prepared to work in mass media should have (the content analysis of which is not included here).

The validity of the inferences made about the information literacy competency of undergraduates and their research skills is impacted by the fact that the survey questions did not allow faculty to clarify the level (freshmen, sophomore, etc.) of the undergraduate student. It can be assumed that the level of the undergraduate student could have an effect on his or her research abilities (upperclassmen would be more capable than freshmen) and that effect is not accounted for here. Therefore, the results apply to faculty who teach undergraduates on all levels. Also, it is reasonable to assume that some faculty would teach exclusively technical courses and would not be giving assignments requiring library research or making library instruction a regular part of their courses. To control this confound, faculties surveyed were given the option to respond "cannot judge" and "N/A" to questions, enabling faculty for whom questions were not relevant to exclude themselves.

External validity for this study is strong, as it is reasonable to generalize these results to the experiences and practices of faculty teaching undergraduates on all levels and graduate students in other JMC programs not accredited by the ACEJMC. JMC programs typically include technical and theoretical courses. Internal consistency for the items on this instrument is adequate to high for the four subscales into which the instrument has been divided. This is demonstrated in table 1.

Findings

Library Instruction

Faculties were asked to report the frequency with which they gave assignments requiring library research in their courses and how often they made library instruction a regular part of the courses they taught. Four hundred and twelve (96.9%; n = 425) faculty teaching undergraduates responded to the question about assign-

		Dolid	TABLE ability Analys		05		
		y Instr. ale	Impact of Lib. Instr. Scale	Info. L	iteracy . Scale		nt Res. act. Scale
	Under Grad.	Grad.	Under Grad. & Grad. Comparison	Under Grad.	Grad.	Under Grad.	Grad.
# of Variables	3	3	2	2	2	13	13
Mean Mean for Items	2.4101	2.5046	2.382	3.0673	3.0237	3.0283	2.3739
Mean Variance for Items	1.262	2.5063	1.9684	0.7842	2.3089	1.1857	1.0228
Inter-item Covariance	0.3234	0.7426	0.9698	0.5127	1.9826	0.4149	0.3131
Inter-item Correlation	0.2276	0.208	0.4941	0.6659	0.8821	0.3628	0.3171
Mean for Scale	7.2302	7.5138	4.764	6.1346	6.0475	39.3682	30.8606
Variance for Scale	5.7264	11.9745	5.8766	2.5939	8.5832	80.1334	62.1344
Standard Dev. for Scale	2.393	3.4604	2.4242	1.6106	2.9297	8.9517	7.8825
Reliability Coefficients on:	3 It	ems	2 Items	2 It	ems	13 1	Items
Cronbach's Alpha	0.5083	0.5582	0.6601	0.7906	0.924	0.8749	0.8515
Standardized Item Alpha	0.4693	0.4406	0.6614	0.7995	0.9373	0.8810	0.8579
No. of Cases	391	327	356	416	358	402	287

ments requiring library research, with 137 (33.3%; n = 412) reporting they made assignments requiring library research a regular part of every class they taught. Only ten (2.4%; n = 412) stated none of their classes included assignments requiring library research. (See table 2.)

To the question about the frequency with which library instruction was made a regular part of the courses they taught, 408 (96%; n = 425) faculty teaching undergraduates responded. Of those, thirty-five (8.6%; n = 408) stated they made library instruction a regular part of every course they taught; 117 (28.7%; n = 408) stated library instruction was not made a regular part of any of the courses they taught.

A cross-tabulation of these two questions showed a moderate positive correlation of r = .477 (q = .448). Four hundred and two (94.6%; n = 425) faculty answered both questions and of that number, 133

(33.1%; n = 402) reported they made as-

percentage of faculty reported making assignments requiring library research a

signments requiring library research a regular part of every class they taught, yet only thirty-three of them (24.8%; n =133) said they made library instruction a regular part of every class as well. Twenty four (18%; n = 133) reported assignments requiring library research were a regular part of every course they taught, yet they did not make library instruction a regular part of any course they taught. Of the 101 (25.1%; n = 402) who said they made assignments requiring library research a regular part of most of the courses they taught, only two (2%; n = 101) said library instruction was a regular part of every course they taught, with the largest percentage of this group, 29.7 percent (30; n = 101), reporting that regular library instruction was a part of some of the courses they taught. Of those ninety-four (23.3%; n = 402) faculty who stated some of their courses regularly included assignments requiring library instruction, none made it a part of every course and the highest percentage of this group, 30.9 percent (29; n = 94), stated they made library instruction a regular part of only some of the courses they taught. (See table 3.)

The same two questions were posed to faculty teaching graduate courses. Three hundred and fifty-six (83.8%; n = 425) faculty surveyed responded to the first question. As could be expected, a higher

regular part of the courses they taught to graduate students than for undergraduate students, with 210 (59%; n = 356) stating such assignments were a regular part of their graduate courses. Only six (1.7%; n = 356) of these faculty reported assignments requiring library research were not a regular part of the graduate courses they taught. The second question on the frequency at which they made library instruction a regular part of their graduate courses got a response rate of 81 percent (344; n = 425). Only fifty (14.5%; n = 344) faculty members stated they made it a regular part of every course they taught, forty-seven (94%; n = 50) of which also reported making library assignments a part of every course. The greatest number, seventy-five (21.8%; n = 344), reported they did not make library instruction a regular part of any of the courses they taught. Again, as with the undergraduate data, the cross-tabulation of these two questions showed a similar moderate positive correlation (r = .638; ρ = .634) as the greatest number of faculty reporting they made assignments requiring library research a part of every course they taught, also stated they did not make library instruction a part of any of the courses they taught (48; 23.6%; n = 203).

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Free		e e	eporting on ndergradua		0			ary
Rese	earch Assign	ments	Lib Instru	rary iction	St	andard	Deviatio	n
	Frequenc	y/ % No.	Frequenc	cy/ % No.	Res.A	ssgn	Lib.I	nstr.
	Ugrad	Grad	Ugrad	Grad	Ugrad	Grad	Ugrad	Grad
Every	137/33.3	210/59	35/8.6	50/14.5				
Most	104/25.2	36/10.1	64/15.7	48/14	1.198	2.055	1.393	1.782
Some	97/23.5	16/4.5	87/21.3	42/12.2		Me	ean	
Few	60/14.6	10/2.8	85/20.8	45/13.1	Res.A	ssgn.	Lib.I	nstr.
None	10/2.4	6/1.7	117/28.7	75/21.8	Ugrad	Grad	Ugrad	Grad
N/A	4/1	78/21.9	20/4.9	84/24.4	2.31	2.44	3.6	3.87

TABLE 2
Frequency of Faculty Reporting on Research Assignments and Library
Instruction: Undergraduate and Graduate (N = 425)

Faculty Perceptions of Students' Information Literacy Competencies 299	Faculty Percer	ptions of Students	' Information	Literacy Com	petencies 299
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				q	49	47		44	74	80	5
			Valid N	Grad	4	4	41	4	2	8	335
	(25)		Vali	Ugrad	35	62	87	83	116	19	402
	e (N = 4		N/A	Grad					2	99	68
	Fraduat		Ż	Ugrad						4	4
	e and C	I teach.	ıe	Grad					5		5
	graduat	Assignments requiring library research are a regular part of the courses I teach	None	Ugrad Grad Ugrad Grad Ugrad Grad Ugrad Grad Ugrad Grad Ugrad					6	1	10
	Under	art of th	W	Grad				1	6		10
	ruction:	egular ps	Few	Ugrad		1	1	21	33	4	60
TABLE 3	ry Insti	h are a r	Some	Grad	1	1	4	3	4	2	15
[A]	d Libra	researc	SO	Ugrad		10	29	23	31	1	94
	ents an	library	st	Grad	1	6	6	9	9	3	34
	ssignme	equiring	Most	Ugrad	2	25	30	21	19	4	101
	earch A	ments r	iry	Ugrad Grad	47	37	28	34	48	6	203
	on Res	Assign	Every	Ugrad	33	26	27	18	24	5	133
	Cross-tabulation on Research Assignments and Library Instruction: Undergraduate and Graduate (N = 425)				Every	Most	Some	Few	None	N/A	Valid N
	Cross-ta			-:;:1; L	a regular part of the	courses I teach.					

Impact of Library Model on Frequency of Library Instruction

To assess whether having a library liaison available for specialized curricular support influenced the rate at which faculty made library instruction a regular part of the courses they taught, faculty were asked to agree, disagree, or respond "do not know" to the following statement, "Our college/school/division/ department has a library liaison who acts as a subject specialist in support of our programs/courses." It was assumed that the faculty who agreed with this statement at the highest rate would be the same faculty who reported making library instruction a regular part of their courses at the highest rate. Four hundred and ten (96.5%; n = 425) faculty members responded to this question, with 319 (77.8%; n = 410) agreeing that this was the model employed by their institutions' library. (See table 4.)

A cross-tabulation showed that of those 397 faculty teaching undergraduates who answered the question on knowledge of their library's model and frequency of library instruction, 309 (77.8%; n = 397) agreed their college/school/division/department had a library liaison available. Seventy-eight of these faculty (25.2%; n = 309) stated they had a library liaison available and never made library instruction a regular part of the courses they taught. Less than half as many faculty (31; 10%; n = 309)who agreed to the library liaison model stated they made instruction a part of every course they taught. (See table 5.) This was not the positive correlation anticipated by the author. There also was a positive correlation between not knowing if the library liaison model was used by the institution's library and the frequency with which library instruction was made a regular part of courses. As the rate of faculty reporting not knowing the model increased, the rate of not integrating library instruction into courses increased (r = .164; q = .158). (See table 5.) A similar positive correlation occurred

in the reported habits of the faculty when teaching graduate students (as agreement to the library liaison model increased, not integrating library instruction into courses increased). It appears that asking faculty not only if they are aware of the existence of a library liaison to their

Frequency of	f Faculty Reporti	TABLE 4Frequency of Faculty Reporting on Knowledge of Library Model: Undergraduate and Graduate (N = 425)	TABLE 4 of Library Mo	odel: Unde	rgraduate	and Gra	duate (N	= 425)
Frequency of	Faculty Reportin	Frequency of Faculty Reporting on Impact of Library Instruction: Undergraduate and Graduate (N = 425)	ary Instruc	tion: Unde	rgraduate	and Gra	iduate (N	= 425)
Knowledge of	Knowledge of Library Model	Impact of Library Instruction	rary Instruct	ion		Standard Deviation	Deviation	
	Frequency/ % N		Frequency/ % N	cy/ % N	Lib. Model	lodel	Impact LI	ct LI
	Ugrad & Grad		Ugrad	Grad	Ugrad	Grad	Ugrad Grad Ugrad	Grad
Agree	319	Improved	217 / 55.2	217 / 55.2 153 / 42.1	0.639	1.329	1.456	
Disagree	52	Made no difference	53 / 13.5	21 / 5.8		Mean	an	
Do not know	39	Confused	5 / 1.3	1 / 0.3	Lib. Model	lodel	Impact LI	ct LI
					Ugrad	Grad	Ugrad	Grad
					1.32	2.06	2.62	
Valid N	410	Valid N	393	363				

college/school/division/department, but whether this made a difference in their integrating library instruction into their courses and whether how they involved the library liaison in their curricular planning would produce more insight and is a viable area for future research.

Impact of Library Instruction on Student Research

To appraise the impact library instruction had on students' research processes, faculty were asked to report if library instruction improved, made no difference in, or confused their students' understanding of the research process. Three hundred and ninety-three (92.5%; n = 425) faculty teaching undergraduates responded, with over half (217; 55.2%; n = 393) reporting their students' research processes improved after library instruction. Fifty-three (13.5%; n = 393) reported library instruction made no difference in their students' research processes, and only five (1.3%; n = 393) stated that their students' research processes were confused by library instruction. (See table 4.) For those faculty teaching graduate students, 153 of the 363 faculty (42.1%; n = 363; 85.4%; n = 425) responding to the question stated that library instruction improved their students' research processes, twenty-one (5.8%; n = 363)reported that it made no difference, and only one (.3%; n = 363) said it caused confusion.

A cross-tabulation of this question with the query on the frequency with which faculty made library instruction a regular part of the classes they taught (table 6) found that the greatest number reported library instruction was a part of every class they taught and that it improved their students' research process (40 or 12.5%; n = 320). Responses show that regardless of the frequency with which library instruction was made a regular part of courses, faculty consistently reported that it improved their students' research processes (147, or 45.9%; n = 320).

Cross-tabu Lib	rary Ins e/school/o	truction livision/c	y Knov 1: Unde lepartm	ergradua ent has a	f Libra ate and alibrary	Gradua liaison v	ate (N = who act	= 425)	
	sp	ecialist i		rt of our Disa		ms/cours Do Not		Vali	d N
T 11		Ugrad	Grad	Ugrad	Grad	Ugrad	Grad	Ugrad	Grad
Library instruction	Every	31	35	2	8		4	33	47
is a regular	Most	47	36	9	7	6	4	62	47
part of the	Some	73	33	7	5	5	3	85	41
courses I teach.	Few	66	38	11	4	6	3	83	45
	None	78	58	18	6	18	11	114	75
	N/A	14	65	2	9	4	7	20	81
	Valid N	309	265	49	39	39	32	397	336

Student Research Skills and Practices

Twelve statements were posed to faculty to gather their perceptions of students' skills in the areas of question formulation, critical thinking, information organization, research practices and processes, use of print reference sources, electronic database searching, World Wide Web searching, and information evaluation. (See table 7.)

The predominant response to these statements (33% of all responses) from faculty teaching undergraduates was that some of their students had the abilities and knowledge listed. Interestingly, 148 (35.7%; n = 415) faculty reported that few of their students understood that research is a strategic process and approached it as such. Similarly, 144 (34.8%; n = 414) stated that few of their students knew that research methodologies varied and applied the appropriate method as necessary. These two items correlated significantly: r = .588; $\varrho = .612$ for undergraduate responses; r = .791; $\varrho = .702$ for graduate students. A cross-tabulation of the question on students' understanding of research as a strategic process with the question on frequency of library instruction showed that of the 403 (94.8%; n = 425) faculty teaching undergraduates who responded to both statements, the highest number (38; 9.4%; n = 403) stated only some of their students understood research is a strategic process and those thirty-eight faculty did not make library instruction a part of any of the courses they taught. The second highest number, thirty-seven (9.2%; n = 403) stated that few of their students understood that research is a strategic process and library instruction was a regular part of few of their courses. (See table 8.)

Faculty teaching graduate students reported that most of their students possessed the abilities and knowledge questioned (46.2% of all responses). One hundred and ninety-three (65%; n = 297) stated most of their graduate students could conceptualize and formulate good questions. When considering the statements on their students' critical thinking skills and ability to apply analysis and original thought to create new information, 204 (68.2%; n = 299) and 139 (41.9%; n = 332), respectively, responded most (table 7).

Information Literacy Assessment

Faculty were presented with a section of the ACRL Task Force on Information Literacy Competency Standards that defines core competencies for information literacy and asked to respond to the statement, "Given these standards, I would say my students are information literate." Faculty then were asked to respond to the statement: "I would categorize the research skills of my students as..." and were given the options of excellent, strong, adequate, poor, n/a, and cannot judge. (See table 9.)

Four hundred and nineteen (98.6%; n = 425) faculty teaching undergraduates responded to the first statement, with only sixteen (3.8%; n = 419) reporting

	ng		7	Grad	49	46	39	42	62	82	320	
tion:	ollowi		Valid N				~		4	6		
istruc	the fo		Λ	Ugrad	35	63	83	81	104	20	386	
rary Ir	d it had		A	Grad	4	5	2	11	50	80	152	
y of Lib	ind found	cess.	V/N	Ugrad Grad	1	3	2	15	77	18	116	
quenc; = 425)	e past a	ren pro	nsed	Grad				1			1	
and Fre	ses in the	LS resear	Confused	Ugrad		2	1	2			5	
TABLE 6 nstruction 4 and Gradu	in my cour	impact on my students' research process.	Made No Difference	Grad	5	8	2	9	4		20	
TABLE 6 Cross-tabulation on Impact of Library Instruction and Frequency of Library Instruction: Undergraduate and Graduate (N = 425)	I have included library instruction in my courses in the past and found it had the following	umpact on	Made No	Ugrad	2	6	13	16	12	1	53	
act of] Under	library	•		oved	Grad	40	38	35	24	8	2	147
on Imp	ncluded		Improved	Ugrad	32	49	67	48	15	1	212	
bulation	I have i				Every	Most	Some	Few	None	N/A	Valid N	
Cross-ta				1.	LIUTALY	is a regular	part of the	courses 1 teach				

they believed all of their students met the ACRL criteria. The highest number, 177 (42.2%; n = 419), stated that some of their students met the ACRL criteria with nine-ty-eight (23.4%; n = 419) responding that few of their students could be considered information literate according to these standards. Significantly, only three (.7%; n = 419) said none of their undergraduate students were information literate based on these measures.

Similarly, only one faculty member reported that none of his graduate students could be considered information literate according to these standards (.3%; n = 362). Thirty-three (9.1%; n = 362) reported all of their graduate students met the ACRL standards, with the greatest number, 160 (44.2%; n = 362) stating that most of their students' were information literate according to these standards.

> To the second statement on research skills, a total of 417 (98.1%; n = 425) faculty teaching undergraduates responded, with seven (1.7%; n = 417) stating they believed the research skills of their students were excellent and 141 (33.8%; n = 417) stating that they found their students' research skills to be poor. A cross-tabulation of the data on this question with the responses to the frequency of library instruction for undergraduate students showed that of the 406 (95.5%; n = 425) faculty who answered both questions, 136 (33.5%; n = 406) stated their students' research skills were poor and of them 27.9 percent (38; n = 136) reported they did not make library instruction a regular part of any of their courses. Only 4.4 percent (6; n = 136) reported they made library instruction a part of every course. (See table 10.)

> When asked to characterize the research skills of their graduate students, 371 faculty (87.3%; n =

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Stude	nt Rese	arch Sk	cills and		TABLE ces: Un		uate an	d Gradu	ate (N	= 425)
My stu	dents a	re able t	o concep	tualize a	nd form	ulate go	od quest	tions.		
	Valid N	All	Most	Some	Few	None	N/A	Cannot Judge	STD	Mean
Ugrad	416	2.4%	34.1%	54.1%	9.1%	0.2%	0.0%	0.0%	0.673	2.71
Grad	297	7.1%	65.0%	25.9%	1.7%	0.3%	0.0%	0.0%	0.612	2.23
My stu	dents di	isplay so	und crit	ical thin	king ski	lls.				
	Valid N	All	Most	Some	Few	None	N/A	Cannot Judge	STD	Mean
Ugrad	415	1.9%	30.1%	53.3%	14.7%	0.0%	0.0%	0.0%	0.7	2.81
Grad	299	5.4%	68.2%	24.1%	2.0%	0.3%	0.0%	0.0%	0.591	2.24
My stu inform		pply ana	lysis and	l origina	l though	it to exis	ting info	rmation t	o create	e new
	Valid N	All	Most	Some	Few	None	N/A	Cannot Judge	STD	Mean
Ugrad	418	1.7%	18.2%	47.6%	28.9%	1.4%	0.7%	1.4%	0.927	3.18
Grad	332	3.3%	41.9%	38.6%	4.2%	0.0%	9.9%	2.1%	1.352	2.94
My stu dissemi		ave an u	nderstar	nding of	how info	ormation	ı is prod	uced, orga	nnized,	and
	Valid N	All	Most	Some	Few	None	N/A	Cannot Judge	STD	Mean
Ugrad	416	6.7%	31.7%	39.2%	18.3%	1.0%	0.5%	2.6%	1.123	2.87
Grad	351	10.0%	47.0%	20.8%	4.6%	13.7%	4.0%	0.0%	1.67	2.95
	dents h bject fie		nderstar	nding of	how info	ormation	ı is orga	nized into	discipli	ines
	Valid N	All	Most	Some	Few	None	N/A	Cannot Judge	STD	Mean
Ugrad	416	4.6%	23.8%	37.3%	24.5%	1.7%	0.5%	7.7%	1.392	3.27
Grad	351	9.7%	41.0%	24.8%	5.4%	13.1%	6.0%	0.0%	1.729	3.08
My stu inform		nderstar	nd how p	orofessio	nals wor	king in 1	their are	a of study	use	
	Valid N	All	Most	Some	Few	None	N/A	Cannot Judge	STD	Mean
Ugrad	416	7.9%	31.7%	40.1%	15.9%	1.2%	0.5%	2.6%	1.132	2.83
Grad	351	13.4%	45.9%	20.8%	3.4%	0.3%	13.7%	2.6%	1.63	2.83
My stu the field		onfer wit	th facult	y to iden	tify info	rmation	resourc	es and pro	cesses	used in
	Valid N	All	Most	Some	Few	None	N/A	Cannot Judge	STD	Mean
Ugrad	415	6.3%	24.8%	40.2%	23.6%	1.7%	0.7%	2.7%	1.138	3.02
				1	1	1		1		2.85

Stude	nt Rese	arch Sk	cills and		TABLE ces: Uno		luate an	d Gradu	ate (N	= 425)
My stu	dents u	nderstar	nd that r	esearch i	is a strat	egic pro	cess and	approach	it as su	ich.
	Valid N	All	Most	Some	Few	None	N/A	Cannot Judge	STD	Mean
Ugrad	415	4.3%	21.4%	28.9%	35.7%	3.1%	1.0%	5.5%	1.308	3.37
Grad	348	11.5%	36.8%	29.0%	3.4%	0.6%	13.5%	5.2%	1.713	3.06
My stu as nece		now that	t researc	h metho	dologies	vary an	d apply	the appro	priate r	nethod
	Valid N	All	Most	Some	Few	None	N/A	Cannot Judge	STD	Mear
Ugrad	414	2.9%	14.3%	33.6%	34.8%	4.8%	2.9%	6.8%	1.336	3.6
Grad	351	12.3%	38.2%	26.8%	4.0%	0.9%	14.0%	4.0%	1.688	3.01
My stu resourc		now whe	ere to fin	d data a	nd infor	mation i	in traditi	onal prin	t refere	nce
	Valid N	All	Most	Some	Few	None	N/A	Cannot Judge	STD	Mear
Ugrad	417	2.9%	29.7%	39.8%	21.3%	2.2%	1.0%	3.1%	1.139	3.06
Grad	352	9.7%	42.9%	25.9%	5.4%	0.3%	13.6%	2.3%	1.573	2.94
e e	dents k Wide W		to find	data and	l inform	ation in	electron	ic databas	es and	on the
	Valid N	All	Most	Some	Few	None	N/A	Cannot Judge	STD	Mear
Ugrad	417	15.8%	53.5%	23.3%	5.8%	0.0%	0.5%	1.2%	0.963	2.27
Grad	352	24.1%	50.3%	9.1%	1.7%	0.0%	13.4%	1.4%	1.631	2.49
		re able to ld Wide		evaluativ	e criteri	a to, and	d select o	uality inf	ormatio	n
	Valid N	All	Most	Some	Few	None	N/A	Cannot Judge	STD	Mear
Ugrad	417	3.1%	22.3%	45.8%	23.3%	2.6%	0.7%	2.2%	1.043	3.11
Grad	352	5.1%	41.8%	33.0%	4.0%	13.6%	2.6%	0.0%	1.518	3.03
My stu	dents ca	n discrir	ninate be	etween so	cholarly	and non	scholarly	[,] informat	ion reso	urces.
	Valid N	All	Most	Some	Few	None	N/A	Cannot Judge	STD	Mear
Ugrad	417	3.8%	16.3%	37.6%	32.9%	4.8%	1.2%	3.4%	1.166	3.35
Grad	351	15.4%	46.2%	18.5%	2.3%	0.0%	14.0%	3.7%	1.71	2.82

425) responded, with thirty-four (9.2%; n= 371) stating their students' research skills were excellent. The greatest number of faculty reported their graduate students' research skills were adequate (122; 32.9%; n = 371). A similar cross-tabulation was done on the responses to this statement

and the report on the frequency of library instruction for faculty teaching graduate students. It was found that faculty who reported their students' skills to be adequate made library instruction a regular part of their courses to some degree more frequently than those faculty members

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	(07+		NP	Grad	49	48	41	45	74	61	318																	
			Valid N	Ugrad	35	63	86	84	117	18	403																	
l l l l l l l l l l l l l l l l l l l	JFAUUA		Judge	Grad	2	-	2	-	9	4	16																	
) puo o	nu alla		Cannot Judge	Ugrad	4	7		8	9		22																	
oub our	grauua	as such	Α	Grad					1	38	39																	
IImdow	Onuer	roach it	V/N	Ugrad Grad Ugrad					2	2	4																	
	ncuou:	and app	ne	Grad					1		1																	
Tuesda I	A THERE	process a	None	Ugrad		2	3	3	4		12																	
1 shuo	LIDFAL	rategic _]	M	Grad	3	2	1	3	2		11																	
TABLE 8 cess and Li	ch is a st	rch is a stı	Few	Ugrad Grad Ugrad Grad	9	24	34	37	36	5	142																	
	I Froc	researc	ne	Grad	15	15	19	16	23	7	95																	
010000	cesearc	ind that	Some	Ugrad	10	20	28	20	38	3	119																	
l mile	N SIIIN	ndersta	ost	Grad	21	27	15	21	29	9	119																	
Joucton	Cross-tabulation on Student Understanding Research Process and Library Instruction: Undergraduate and Graduate (N = 425)	udents un	udents unde	idents under	Idents unde	tudents und	students un	students un	students ur	students ui	y students ur	y students u	1y students u	Ay students u	1y students un	y students und	y students und	My students understand that research is a strategic process and approach it as such	students under	Most	Ugrad	6	12	18	12	29	9	86
1 m		My stu	I	Grad	8	ю	4	4	12	9	37																	
P.40	on Studen	N	IV	Ugrad	9	3	2	4	2	1	18																	
) III III III III III III III III III I				Every	Most	Some	Few	None	N/A	Valid N																	
det soon	Cross-tai			Library	insurucuon is a regular	part of the	courses I	teach.																				

who estimated their students' research skills otherwise. (See table 11.)

To assess whether faculty members' concepts of excellent research skills were in line with the core competencies of information literacy as articulated by the ACRL standards, correlations were generated on these two variables that were significant: r - .666; $\rho = .684$ for undergraduate scores; r - .882; $\rho = .808$ for graduate scores. A cross-tabulation of the two statements was done showing that four of the seven faculty teaching undergraduates (57%) who categorized the research skills of their students as excellent also stated their students met all of the ACRL criteria for information literacy. Fifty-two who reported their students' research skills were strong said they met most of the ACRL criteria.

For graduate students, thirteen of the thirty-two faculty members (40.6%) who stated their students' research skills were excellent also reported they met all the ACRL base competencies. The highest numbers in the excellent and strong categories for graduate students' research skills, seventeen and eightyfour, respectively, were from faculty who stated their students met most of the ACRL criteria. Given that for all faculty responding to these statements roughly 75 percent stated that strong research skills met most of the ACRL criteria, one could infer that the ACRL definition satisfied some faculties' concepts of excellent research skills, but this should be clarified by more specific questioning and, again, presents an area for further research. (See table 12.)

Discussion

The purpose of this study was to assess the perceptions that faculty teaching in journalism and mass communication programs accredited by the ACEJMC have of their students' information literacy skills and to ascertain the frequency and impact of library instruction on their students' research. Analysis of the data has revealed some

Frea	uency of	f Facul	ty Reporti	TABL ng on Ir	_ /	Comnet	ency ar	nd Resea	rch			
freq	•		Undergra	0		-	•					
	o. Literac mpetenc	v	Rese	earch Ski	lls	Standard Deviation						
	Frequ % I	v			iency/ No.		. Lit. etency	Res. Skills				
	Ugrad	Grad		Ugrad	Grad	Ugrad	Grad	Ugrad	Grad			
All	16 / 3.8	33 / 9.1	Excellent	7 / 1.7	34 / 9.2	.985	1.709	.797	1.352			
Most	116 / 27.7	160 / 44.2	Strong	69 / 16.5	114 / 30.7							
Some	177 / 42.2	85 / 23.5	Adequate	194 / 46.5	122 / 32.9	Mean						
Few	98 / 23.4	8 / 2.2	Poor	141 / 33.8	24 / 6.5		. Lit. etency	Res.	Res. Skills			
None	3 / .7	1 / .3	N/A	3 / .7	58 / 15.6	Ugrad	Grad	Ugrad	Grad			
N/A	4 / 1	64 / 7.7	Cannot Judge	3 / .7	19 / 5.1	2.97	3.06	3.18	3.04			
Cannot Judge	5/1.2	11/3										
Valid N	419	362	Valid N	417	371							

TARIE 0

interesting results that warrant closer examination.

• The most frequent response to the question, "Assignments requiring library research are a regular part of the courses I teach," was "every," whereas the most frequent response to the question, "Library instruction is a regular part of the courses I teach," was "none," from faculty teaching both undergraduate and graduate students. (See table 2.)

• The greatest number of faculty reporting they knew their library had in place a model for specialized curricular support were those faculty who reported they did not make library instruction a regular part of "any" of their courses. (This is true for faculty teaching both undergraduate and graduate students.) (See table 5.)

• The most frequent response to the statement, "I have included library instruction in my courses in the past and found it improved/made no difference/ confused my students' understanding of the research process," was "improved" for faculty teaching both undergraduate and graduate students. (See table 4.)

• Only four faculty (.96%; n = 416) teaching undergraduates characterized their students as meeting all of the ACRL standards for being information literate and as having "excellent" research skills. Thirteen faculty (3.63%; N=358) teaching graduate students characterized their students the same way. (See Table 12.)

• The percentage of faculty reporting "all" of their students could be characterized by the statements on research skills and practices (table 7) was never higher than 10 percent for undergraduate students (except in the case of ability to find information in electronic databases and on the Web, for which it was 15.8%) and 15 percent for graduate students (again, except in the case of ability to find infor-

				49	46	42	44	73	81	335				ad	48	46	42	42	72	80	330	
		d N	Grad			-	-			ŝ			Valid N	Grad								
		Valid N	Ugrad	35	64	87	85	115	20	406	425)			Ugrad	35	64	87	84	117	20	407	
425)		ge	ge	ge						2	15	17	= N		Cannot Judge	Grad					3	7
) N		t Jud	Grad								luate		not.	Ugrad (4		5	
uate (Cannot Judge	Ugrad					7		ŝ	Grad	ate.	Cai									
Gradu									47	47	and	liter	liter:	Grad						54	54	
and (nts as:	N/A	Grad						7		nduate	mation	N/A	Ugrad						4	4	
duate	stude	Z	Ugrad						ŝ	ŝ	lergra	infor		Grad 1								
rgra	f my			4	3	m	m	6		22	Und	ts are	None	d G					2		3	
Unde	kills o	w	Grad								tion:	tuden		Ugrad								
) ction:	earch s	Few	Ugrad	9	18	35	37	38	7	136	nstruc	Given these standards, I would say my students are information literate.	M	Grad		-		2	3	1	7	
LE 10 Istrue	ne res			20	22	18	20	24	9	110	TABLE 11 Library I	uld sa	Few	Ugrad	5	14	23	21	30	0	95	
TABLE 10 ary Instruc	rize tl	A would categorize the research skins of my students as: Some Few N/A	Grad							-	TABI Libr	, I wo		Grad U	18	11	16	12	22	2	81	
Libra	ategoi		Ugrad	13	38	42	38	50	8	189	y and	dards	Some		12					5		
s and	o nld o			20	19	18	18	26	∞	109	etenc	e stan	Š	Ugrad	1	32	39	42	42		172	
Skills	I w	Most	Grad	0	1	_	_	(1		10	Comp	en thes	ĭt	Grad	23	31	23	26	35	10	148	
search		Μ	Ugrad	14	9	10	8	24	9	68	eracy (Give	Most	Ugrad	14	14	23	19	35	~	113	
on Re				5	2	ω	ω	12	5	30	o. Lit			-	7	ε	ε	2	6	5	29	
ion o		All	Grad								l Infe		Π	Ugrad Grad	3	4	-	12	4		5	
abulat		ł	Ugrad	2	2		7			7	tion or			Ugrae					,			
TABLE 10Cross-tabulation on Research Skills and Library Instruction: Undergraduate and Graduate (N = 425)				Every	Most	Some	Few	None	N/A	Valid N	TABLE 11 Cross-tabulation on Info. Literacy Competency and Library Instruction: Undergraduate and Graduate (N = 425)				Every	Most	Some	Few	None	N/A	Valid N	
			Library	is a regular		I Si	teach.	~	~	-	Cross			Library	regular part of	the courses I	teach.					

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	TABLE 12 Cross-tabulation Info. Literacy Comp. and Research Skills: Undergraduate and Graduate (N = 425)		N	Grad	33	160	85	8	1	61	10	358			
			Valid N	Ugrad Grad	16	115	177	76	3	4	4	416			
			Cannot Judge	Grad						11	7	18			
			Cannot	Ugrad			1			1	1	3			
		s as:	A	Grad		1				50	1	53			
		student	N/A	Ugrad						3		3			
		ls of my)r	Grad		7	17	б			7	24			
		I would categorize the research skills of my students as:	Poor	Ugrad		ю	60	74	2		1	140			
.Е 12		the rese	uate	Grad	2	56	58	5				121			
TABI		egorize 1	Adequate	Ugrad	3	57	108	23			2	194			
		ould cat	ng	Grad	18	84	8					110			
		I w	Strong	Ugrad	6	52	8					69			
						lent	Grad	13	17	7					32
				Excellent	Ugrad	4	3						7		
					All	Most	Some	Few	None	N/A	Cannot Judge	Valid N			
				Given these	would sav mv	students are	information	literate.							

mation in electronic databases and on the Web, for which it was 24.1%).

These outcomes present a picture that raises several questions or perhaps just one big one: Given that faculty make assignments that require library research a regular part of their courses, know that library instruction improves students' research skills, see that their students are not as information literate as they could be, recognize that their students have research skills and practices that need improvement, and understand that their university library is structured to provide specialized research instruction, why is library instruction not integrated in a consistent and intentional manner into the courses being taught in these JMC programs at a greater rate?

Integration of information literacy education into a curriculum is "most successful when strategies are developed within the philosophy of academic administrations-information literacy should be a part of the academic mandate of the institution."9 A variety of factors drive institutional and curricular change; one among them is accreditation. Regional accreditation commissions for higher education across the country are stating unambiguously that students should be "required" to use library and information resources or that the university/college "ensures that users have access to regular and timely instruction in the use of the library and other learning/information resources."10 The strongest advocate of information literacy has been the Middle States Commission on Higher Education, whose definition of information literacy strikingly parallels that of ACRL:

[information literacy is] an intellectual framework for identifying, finding, understanding, evaluating and using information. It includes determining the nature and extent of needed information; accessing information effectively and efficiently; evaluating critically information and its sources: incorporating selected information in the learner's knowledge base and value system; using information effectively to accomplish a specific purpose; understanding the economic, legal and social issues surrounding the use of information and information technology; and observing laws, regulations, and institutional policies related to the access and use of information.11

In 2003, Middle States published Developing Research & Communication Skills: Guidelines for Information Literacy in the Curriculum, providing strategies upon which institutions may plan a course of action for integration of information literacy across the curriculum. Driving change on the programmatic level for JMC curricula, the ACEJMC states in standard 2 of its Standards of Accreditation that the educational unit must provide "a curriculum and instruction that enable students to learn the knowledge, competencies and values the Council defines for preparing students to work in diverse global and domestic society."12 Two of the competencies delineated are the ability to "think critically, creatively and independently" and "conduct research and evaluate information by methods appropriate to the communications professions in which they work."13 The ACRL standards provide a framework within which librarians and JMC faculty can work together to further refine a vision of an information-literate JMC student and build a curriculum within which information literacy education is fundamental.

Conclusion

In her 1996 report, "Winds of Change: Challenges Confronting Journalism Education," Betty Medsger stated:

Be it heavy and important or light and easy, [journalism] is an intellectual process. Whether executed masterfully or superficially or shoddily, it is, nevertheless, a process of critical thinking and decision-making. The well-trained journalist's mind inquires, weaves, thinks again, unravels, asks again, corrects, goes back again, weaves again.... Students enter the journalism classroom often looking for a formula. Instead, they are asked to think-carefully, critically, precisely-and to do so beyond their own interests, to think of the public's interests and needs.14

JMC faculty and librarians are obligated to train JMC students to be information literate. Mandates emanate from professional associations and accrediting agencies, but it is not only these directives that compel them. It is the "goodness of fit" of information literacy skills with the professional expertise anticipated of JMC students that makes for a complimentary relationship, the development of which is the responsibility of institution administrations, JMC faculty and librarians, and that promises a better-educated student and informed citizenry.

Notes

^{1.} Accrediting Council on Education in Journalism and Mass Communications, *ACEJMC Standards of Accreditation* (Sept. 2003). Available online from http://www.ukans.edu/~acejmc/BREAKING/New_standards_9-03.pdf [cited 6 May 2004].

^{2.} Ibid., 9.

^{3.} Project on the Future of Journalism and Mass Communication Education, *Planning for Curricular Change: A Report of the Project on the Future of Journalism and Mass Communication Education,* 2nd ed. (Eugene: University of Oregon, School of Journalism, 1987), 51.

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4. Betty Medsger, Winds of Change: Challenges Confronting Journalism Education (Arlington, Va.: The Freedom Forum, 1996), 11–12.

5. Ann Grafstein, "A Discipline-based Approach to Information Literacy," *Journal of Academic Librarianship* 28, no. 4 (2002): 197.

6. Association of College and Research Libraries, *Information Literacy Competency Standards* for *Higher Education* (Chicago: ACRL), 2–3.

7. Ibid., 3.

8. Ibid.

9. Deborah V. Dolan and Georgina Martorella, "Discipline-based Information Literacy and the Lifelong Learner," *International Journal of Learning* 10 (2003): 1330.

10. Gary B. Thompson, "Information Literacy Accreditation Mandates: What They Mean for Faculty and Librarians," *Library Trends* 51 (fall 2002): 221.

11. Middle States Commission on Higher Education, *Developing Research & Communication Skills: Guidelines for Information Literacy in the Curriculum* (Philadelphia: MSCHE, 2003), 1.

12. Accrediting Council on Education in Journalism and Mass Communications, ACEJMC Standards of Accreditation.

13. Ibid.

14. Medsger, Winds of Change, 9.

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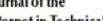
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