Information literacy in mathematics undergraduate education: Where does it stand today? Appendix B--Quantitative Results of the Survey

Filtered by: Eligible responses to institutional residence question (Canada or United States)

In which country does your institution reside (main campus)?

Answer	Response	%
Canada	7	6%
United States	111	94%
Total	118	100%

Which college degrees are offered in mathematics at your college or university? Check all that apply.

Answer	Response	%
PhD in Mathematics	48	41%
Master's in Mathematics	54	46%
Bachelor's in Mathematics	89	75%
No college degrees in Mathematics	10	8%
Other	9	8%

Other
2 year transfer degree
A.S. Pre-Engineering
Minor in Mathematics
Associates
Accounting, A.A.S.
similar degrees in statistics and biostatistics
Masters in Math, Science and Technology Education
associates
A.S. Mathematics and Natural Science

How many total students does your institution enroll (FTEs)?

Answer	Response	%
1-1,000	4	3%
1,001-5,000	32	27%
5,001-10,000	18	15%
10,001-25,000	37	31%
25,001+	27	23%
Total	118	100%

How many undergraduate mathematics majors?

Answer	Response	%
None	9	8%
1-10	4	4%
11-50	34	32%
51-100	25	24%
101-250	22	21%
251+	12	11%
Total	106	100%

Does your institution have a systematic program, curriculum plan, formal procedure, etc., in place for information literacy? Check all that apply.

Answer	Response	%
All students (university-wide) must take a course, such as freshman English, that includes an information literacy component	52	46%
All students (university-wide) must take a stand-alone information literacy course as part of their degree program	7	6%
All science majors must take a course that includes an information literacy component	9	8%
All mathematics majors must take a course that includes an information literacy component	7	6%
Other	17	15%
None	42	37%

Other
There are many instruction activities but they are not mandatory
all entering first year students must take a course with an IL component
Most, but not all, students in MATH200 Discrete Mathematics have a research paper which is supposed to serve as an IL component. I worked with this semester's class, but historically the assignment and IL has been sporadic.
Gen.Ed requirements effective Fall 2014
Nothing systematic, but IL instruction does occur
information literacy requirements are built into required writing intensive courses
ILL has been incorporated across disciplines but in a scatter-shot manner
Many do, nothing mandatory
students can also test-out of this requirement
all first-year students (Freshman and transfer students) must take a First Year Seminar course which includes an information literacy component
I do grad library orientation annually.
IL is one of four learning outcomes for the university's general education program
Stand alone IL course is offered, but not required for any students
Librarians do information literacy sessions
Most (not all) first-year students take freshman English with a one-session IL component.
First-year Biology students

At your institution, have you taught any information literacy (or library-related) sessions in any specific mathematics courses, programs, or activities for undergraduate students since Fall 2010?

Answer	Response	%
Yes	35	30%
No	81	70%
Total	116	100%

How many information literacy or library-related sessions did (or will) you teach? This is only in regards to sessions as part specific mathematics courses, programs, or activities for undergraduate students at your institution. If you were not at your current institution for a specific year, please type "NA" in that box.

Fall 2013-Summer 2014	Fall 2012-Summer 2013	Fall 2011-Summer 2012	Fall 2010-Summer 2011
Number of sessions	Number of sessions	Number of sessions	Number of sessions
2	0	0	0
8	1	N/A	N/A
1	1	1	1
1	NA	NA	NA
3	6	3	5
0	1	1	1
2	0	0	0
0	0	0	1
1	2	2	1
0	1	1	1
1	1	1	1
2	NA	NA	NA
3	0	0	0
1	1	1	1
5	5	5	5
0	1	2	1
1	2	1	2
2	2	2	n/a
0	1	NA	NA
3	NA	NA	NA
1	0	0	0
0	0	1	NA
1	1	1	1
2	1	1	1
6	6	6	6
0	0	1	0
2	2	0	0
6	6	0	0
3	3	3	0
1	1	0	0
0	0	2	2
5	5	5	5
0	0	0	0

What undergraduate mathematics courses have included information literacy sessions? Check all that apply.

Answer	Response	%
Mathematics history course	9	29%
Mathematics literature research course	4	13%
Mathematics education course	6	19%
Required seminar series for mathematics majors	9	29%
Other	11	35%

Other
Writing intensive course
Statistics
seminar on code-breaking
Math REUs
Mathematics of Games and Gambling
junior seminar (1 credit)
Statistics (Classified as a Math class, taken by mostly non-math majors)
introductory math course
Mathematics + Democracy course
Liberal arts math
intro to statistics

For information literacy done specifically for mathematics courses, programs or activities (as opposed to university-wide curricula), what is the delivery method? Check all that apply.

Answer	Response	%
Tour of library	6	19%
Course management system (Blackboard, Moodle, etc)	4	13%
Online tutorial	4	13%
In-person demonstration of specific resources	30	97%
Online course guide for that particular course	13	42%
Online subject-based guide	18	58%
Paper handout	11	35%
Hands-on time or interactive session	17	55%
Other	0	0%

In your experience, what mathematics-related resources are undergraduate students expected to use during their time in college? Check all that apply.

Answer	Response	%
Journals	23	74%
Monographs	23	74%
MathSciNet (Mathematical Reviews)	17	55%
Web of Science, Compendex, and/or other databases	14	45%
Handbooks, encyclopedias, or dictionaries	12	39%
Popular literature	3	10%
Preprints (arXiv.org)	5	16%
LaTeX or TeX	9	29%
BibTeX	3	10%
Web searching	11	35%
Wolfram Alpha	7	23%
OPAC, library catalog	18	58%
Discovery system	11	35%
Other	1	3%
None of the above	0	0%
I do not know	2	6%

Other
Wikipedia

In your experience, what kinds of assignments have you encountered as being given to mathematics students that require them to use skills and/or knowledge learned in information literacy sessions? Check all that apply.

Answer	Response	%
Senior project/thesis, or culminating experience	14	48%
Research/honors project	15	52%
Poster	8	28%
Presentation	11	38%
Paper	18	62%
Group/team work	11	38%
Other	1	3%
None of the above	1	3%

Other
I don't know

Which of the following competencies have you included in your information literacy sessions? Check all that apply.

Answer	Response	%
The standard structure of a mathematics journal article	7	23%
How to write and/or submit a journal article	0	0%
How to search/use mathematics-related resources (such as MathSciNet)	25	83%
The basics of open access	4	13%
Which journals are particularly important	10	33%
What are the major societies	5	17%
Who are the major publishers	3	10%
Other	4	13%
None of the above	4	13%

Other
Using LaTeX and BibTeX
Difference between popular and scholarly articles
This box doesn't give me enough space to write additional info.
Searching other non-math databases (i.e., social sciences) to locate statistics-rich studies)

Select the most accurate option: The information literacy needs of mathematics undergraduate students are being adequately met at my institution.

Answer	Response	%
Strongly Agree	0	0%
Agree	7	6%
Neutral	46	42%
Disagree	42	39%
Strongly Disagree	14	13%
Total	109	100%

Identify your highest personal degree attainment in library or information science:

Answer	Response	%
PhD in Library and/or Information Science	1	1%
Master's degree in Library and/or Information Science	99	96%
Bachelor's degree in Library and/or Information Science	1	1%
No degree in Library and/or Information Science	2	2%
Total	103	100%

Identify your highest personal degree attainment in mathematics:

Answer	Response	%
Mathematics PhD	1	1%
Mathematics Masters degree	5	5%
Mathematics Bachelors degree	12	12%
Other mathematics degree	7	7%
No mathematics degree	78	76%
Total	103	100%

Other mathematics degree
Physics Bachelors degree (lots of mathematics courses)
Engineering
math minor
minor in mathematics
one course away from a math major
other science MS degree
Math minor on my physics BS

How long have you been a librarian who liaisons with mathematics/mathematicians?

Answer	Response	%
Less than 2 years	36	36%
2-5 years	16	16%
6-10 years	16	16%
11-15 years	12	12%
16-25 years	11	11%
25+ years	8	8%
Total	99	100%