

Collection Policy: Mathematics Program Last reviewed July 2007

Purpose

The Collection Development policy is used as a guide to shape relevant collections and to ensure consistency in collection development. The decision to purchase library materials is primarily the responsibility of the Collections Librarian in consultation with faculty in the Department.

This policy has been developed by Michael Skelton, the Collections Librarian, in cooperation with and endorsed by Kathleen Cameron, the Department Faculty Library Liaison and the Department Chair.

Collection Focus

- To support teaching, study and research up to the graduate level, as well as to support faculty research
- Areas of special interest must include: algebra, analysis & topology, applied mathematics, computer science, financial mathematics, geometry, operations research, statistics & probability. Within each specific area individual faculty members may make recommendations for items to be included in the collection.

Collection Scope

- **Language:** Primarily English language materials are collected. Important publications primarily in French, German, Spanish and Russian will also be considered either in their original language or in translation if available.
- **Place of Publication:** emphasis is placed on Canadian or American publishers first, then British and European
- Dates of Publication: emphasis is placed on recently published works
- Chronological Period: both contemporary and historical works are acquired
- Geographical Areas: no restrictions
- Publishers: works from scholarly and academic publishers are emphasized

Types, Formats, and Readership of Materials Collected

- Materials with academic-level readership are selected
- Web-based formats for reference sources, journals and indexing sources are preferred. Print and microform are considered for reason of cost, availability, expected use or long term access.

- Single copies of books in print formats are generally selected. Web-based formats are selected on a title by title basis, especially if the title is of interest to users at multiple Laurier campuses. Duplication of print across Laurier campuses is generally avoided.
- Excluded types include textbooks, abridgements, study aids, limited editions, works by vanity presses, juvenile, pamphlets, reprints and partial contents (eg. single issues of journals, electronic versions of single chapters of books). Titles already held by the Universities of Waterloo and Guelph may be excluded.
- The following items, as they apply to Mathematics, will only be considered for inclusion in the collection upon the request of the Mathematics faculty:
 - o Proceedings of conferences, symposia, international congresses, etc.
 - Selected Canadian and American theses
 - Reports of non-governmental organizations such as research centres, university departments, etc.
 - Numeric and/or spatial data

Subjects Collected and Collecting Priorities

Collecting priorities are categorized into 3 levels:

- A=highest emphasis. The collection includes major published materials required to support the core teaching and research at the highest degree level offered by the Department.
- B=secondary emphasis. The collection includes a selection of materials to complement the discipline as a whole, although it may not be a primary focus for courses. This level is also used to identify other departments that may have identified aspects of this area as something of highest emphasis
- C=selective emphasis. Materials, including reference materials and basic journals and indexes are collected to introduce and define an area

Subjects Collected	Classification	Collecting Priority Under- graduate	Collecting Priority Graduate or Faculty
Statistics			
General	HA 1-28		
Theory and Method	HA 29-32		
Time-series analysis	HA 30.3	С	
Economics			
Risk Management	HD 61	С	
Finance			
Mathematical Models	HG106	В	Α
Mathematical models. Mathematics of	HG4515.2-	В	В
investment	4515.3		
Future markets. General works	HG6024.A3	Α	Α

Mathematics			
	A1-QA74	С	
	A 39.2	A	Α
fields)	, (33.2	, ,	, ,
,	A77-QA149	С	
	A150-	Α	В
5	A272		
Combinatorics. Combinatorial Analysis Qu	A164-	Α	Α
$ Q_{\ell} $	A167.2		
Group Theory Qa	A174-183	В	В
Number Theory Q	A 241-	В	
	47.5		
Commutative Rings and Algebras Q	A 251.3		
Noncommutative Rings and Algebras Q	A251.4		
<u> </u>	A251.5		
	A252-		Α
	A252.5		
· · · · · · · · · · · · · · · · · · ·	A269-	Α	Α
	A272.5		
	A273-	Α	В
	A273.67		
9	A274-	Α	Α
	A274.8		
	A275	Α	Α
	A276-	Α	Α
	A280		
	A278.7		A
	A278.8	A	A
,	A279.4-	В	В
	A279.7		
7	A280	Α	
	A281-296		
· · · · · · · · · · · · · · · · · · ·	A297-	В	
	A299.4	D	
	A299.5	В	
' ' '	A299.6-	Α	
,	A439 A303-		
	A303- A316		
	A310 A319-		A
	A319- A329.9		А
	A331-355		
	A370-	A	A
	A380	/1	/1
	A385-		
	A387		
groups)	, .50,		
	A401-		
	A425		
	A427		В

Difference Equations & Functional Equations.	QA431	В	Α
Integral Equations. Calculus of Differences			
Geometry (General)	QA440-		
	QA800		
Elementary Geometry	QA451-	В	
	QA469		
Projective Geometry	QA471		
Modern Geometry	QA473-		
	QA475		
Trigonometry	QA531-	Α	
	QA539		
Algebraic Geometry	QA564-		
	QA609		
Topology. Knot theory	QA611-		
	QA614		
Infinitesimal Geometry	QA615-		
	QA639		
Differential Geometry	QA641-		Α
	QA670		
Non-Euclidean Geometry	QA685		
Analytic Mechanics (General)	QA801-		Α
	QA939		
Dynamics	QA 843-871	Α	Α
Fluid Mechanics	QA901-		
	QA930		
Elasticity. Plasticity	QA931-939		
Technology			
Applied mathematics. Quantitative methods	T56.8-58.3	В	В

Related Programs and Support

Consortial purchases with the TriUniversity Group of Libraries (Guelph, Waterloo, Laurier university libraries), with the Ontario Council of University Libraries, and on a national level, are pursued.

Last Updated: March 2008