

Mathematics

Information Access Policy

Clemson University Libraries

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Introduction

This Information Access Policy is a statement of goals for building the library's collection in the subject area of Mathematics. It should serve as a guide for library personnel in making collection development decisions, and should inform users, in general, how library materials are selected in Mathematics.

Purpose of Collection

The Mathematics collection supports the research and teaching needs of undergraduate students, graduate students, faculty, and staff in the Department of Mathematical Sciences at Clemson. Because Mathematics is pervasive, and Mathematical competence is vital to success in so many fields, the collection also supports research and education in other departments in the College of Engineering and Science, and in other colleges, at Clemson.

Clemson's Mathematical Sciences Program

The research interests of Clemson's Mathematical Sciences faculty are varied and include Algebra, Discrete Mathematics and Number Theory, Pure and Applied Analysis, Computational Mathematics, Financial Mathematics, Mathematical Biology, Operations Research, Statistics and Probability, and Applied Statistics. There is considerable overlap and interaction between these areas.

A student may earn either a Bachelor of Science or a Bachelor of Arts degree in Mathematical Sciences. In the Bachelor of Science program, students much choose an emphasis area or the Biology concentration. The emphasis areas of the standard B.S. are currently Abstract Mathematics, Actuarial Science/Financial Mathematics, Applied and Computational Mathematics, Computer Science, Operations Research/Management Science, or Statistics. A combined Bachelor's/Master's Plan is also offered, where Clemson students may begin the Master's program in Mathematical Sciences while completing their undergraduate degree. The Department also offers the M.S. and Ph.D. degrees in Mathematical Sciences.

Collection Locations

The majority of the physical collection is in Cooper Library. Some older books and print journal volumes, as well as more recent print journal volumes duplicated in a stable online format (such as Science Direct titles), are available in Offsite Shelving.

General Collection Guidelines

Languages: English is the primary language of the collection. Materials in languages other than English are not actively selected.

Geographic Guidelines: No geographical limitations will be placed on the acquisition of Mathematics materials.

Chronological Guidelines: Emphasis is on current research and development, but an effort is made to maintain strong retrospective collections in fields where past literature remains important. Retrospective collecting may also be done at the request of faculty in support of their research and teaching.

Types of Materials Selected: Emphasis is on research materials and materials to support Clemson's Mathematical Sciences curricula and curricula in related disciplines. The collection includes monographs, journals and other serials, reference works, indexes and abstracts, and data collections. Graduate level texts are acquired extensively, while basic undergraduate textbooks whose primary function is instruction are usually excluded. Biographies and works on the history of Mathematics are acquired very selectively. Materials published by Clemson University authors are also acquired selectively. Indexes and abstracts are licensed as online databases; MathSciNet and Web of Science are two examples of subscribed indexes most used by mathematics researchers. Given that access to mathematics journals is key to the success of Clemson researchers across colleges and departments at Clemson, every effort will be made to increase the size of Clemson's journals collection in Mathematics.

Format of Materials: No format is excluded. For journals, indexes, reference works, and data collections, the online versions are preferred. Books and book series are increasingly purchased in electronic format. Duplication of formats will largely be avoided.

Library of Congress Classifications: The predominant LC classifications of the collection are QA1-939, but supporting materials may also be purchased in other LC Subclasses.

| Mathematics | |
|--------------|--|
| LC Class | Subject |
| QA1-43 | General |
| QA47-59 | Tables |
| QA71-90 | Instruments and machines |
| QA75-76.95 | Calculating machines |
| QA75.5-76.95 | Electronic computers. Computer science |

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| QA76.75-76.765 | Computer software |
| QA101-(145) | Elementary mathematics. Arithmetic |
| QA150-272.5 | Algebra |
| QA273-280 | Probabilities. Mathematical statistics |
| QA299.6-433 | Analysis |
| QA440-699 | Geometry. Trigonometry. Topology |
| QA801-939 | Analytic mechanics |

Selection Tools

Faculty input and research interests will be given the highest priority in selection decisions. In addition, circulation statistics, publisher catalogs, and book reviews will be used in selecting monographs. Impact factors and available journal usage statistics may play a role in journal selection decisions. Interlibrary Loan requests will also be monitored so that materials frequently requested from other institutions may be purchased.

Access to Materials not Available at Clemson

Interlibrary Loan is the primary method of accessing both monographic materials and published articles.

Weeding

Monographic material published twenty years prior to the current date that has not circulated within the last ten years will be considered for weeding. Older materials that have not circulated recently may be kept for historical and/or reference purposes.

Books will be removed from the collection if they are in poor condition and cannot be repaired. Every effort will be made to replace high-use titles.

Print serials may be sent to Offsite Shelving if they are duplicated in a stable online format.