



# Library Services Course Guide ~ Mathematics

## About our Course Guides:

Each page is dedicated to the areas covered by the courses offered here at RPCC. Each page lists various types of resources, including printable guides and handouts, suggested databases for research, selected e-books and books in our collection, and links to relevant online resources.

## For more information on course offerings, visit the following web pages:

Catalogs: <http://www.rpcc.edu/catalogs.cfm>

Technical Programs: <http://www.rpcc.edu/technicalPrograms.cfm>

## Suggested Databases:

Click on any **Databases** link on the Library website to access these. Please note that access from off-campus will require your Library User ID (or Alt ID) & PIN, or, for some resources, a different User ID & Password. See our page on [Using Online Library Resources From Home](#).

- Academic Search Complete
- Biography Resource Center
- ERIC
- JSTOR
- LearningExpress Library
- MathSciNet

## Selected E-Books:

The **eBook Collection** from EBSCOhost is our largest provider of e-books (electronic copies of printed books PDF format), available 24 hours a day, 7 days a week. **eBook Collection** has an easy-to-use search interface. You will be prompted to login with your 12-digit Library User ID to access these e-books from off-campus. Please see our Tutorials on eBook Collection from EBSCOhost for more information.

## General Reference:

- *1001 Math Problems*, 1999. Also available in print, call number QA 43 .A12 1999 and the 3rd Edition, 2009, is also available from LearningExpress Library eBooks.
- *The A to Z of Mathematics: A Basic Guide*, 2002, by Thomas Sidebotham.

## History of Mathematics and Mathematicians:

- *Famous Problems and Their Mathematicians*, 1999, by Art Johnson.
- *A History of Mathematics: From Mesopotamia to Modernity*, 2005, by Luke Howard Hodgkin.
- *Women in Mathematics: The Addition of Difference*, 1997, Race, Gender, and Science Series, by Claudia Henrion.

## Basic Mathematics:

- *Bob Miller's Basic Math and Prealgebra*, 2002, by Thomas Sidebotham. Also available in print, 1st & 2nd Editions, call numbers QA 39.3 .M57 2002 & QA 39.3 .M57 2007.
- *Everyday Math for the Numerically Challenged*, 1998, by Audrey Carlan.
- *Math Word Problems Demystified*, 2005, by Allan G. Bluman.

### Algebra:

- *Algebra Demystified*, 2003, by Rhonda Huettenmueller.
- *Algebra Success in 20 Minutes a Day*, 2000, by Barbara Jund. 4th Edition, 2010, also available from LearningExpress Library eBooks.
- *How to Solve Word Problems in Algebra: A Solved Problem Approach*, 2nd Edition, 2000, by Mildred Johnson.

### Geometry:

- *Geometry: A Self-teaching Guide*, 2005, by Stephen L. Slavin and Ginny Crisonino
- *Geometry Demystified*, 2003, by Stan Gibilisco.
- *Geometry Success in 20 Minutes a Day*, 2000, by Debbie Thompson; 2nd Edition, 2005, also available from LearningExpress Library eBooks.

### Trigonometry:

- *Precalc with Trigonometry, Calc for the Clueless*, 2nd Edition, 1998, by Robert Miller.
- *Trigonometry Demystified*, 2003, by Stan Gibilisco.
- *Trigonometry: With Calculator-based Solutions, Schaum's Outline Series*, 4th Edition, 2009, by Robert E. Moyer and Frank Ayres.

### Finite Mathematics:

- *Schaum's Outline of Theory and Problems of Beginning Finite Mathematics*, 2005, by Seymour Lipschutz, et al.

### Calculus:

- *Calculus Demystified*, 2003, by Steven G. Krantz.
- *Calculus for the Utterly Confused*, 1999, by Robert M. Oman and Daniel M. Oman.
- *Calculus Know-it-all: Beginner to Advanced, and Everything in Between*, 2009, by Stan Gibilisco.

### Statistics:

- *Mathematical Statistics*, 1999, by Jun Shao.
- *Probability and Statistics: the Science of Uncertainty*, 2004, by John Tabak.
- *Schaum's Easy Outlines: Statistics*, 1999, by Murray R. Spiegel.

### Other Topics in Mathematics:

- **Math Anxiety & General Help:**
  - *Arithmetic and Algebra--Again: Leave Math Anxiety Behind Forever*, 2nd Edition, 2005, by Brita Immergut & Jean Burr.
  - *Maths: A Student's Survival Guide*, 2nd Edition, 2003, by Jenny Olive.
  - *Mind Over Math*, 1979, by Stanley Kogelman and Joseph Warren. Also available in print, call number **QA 11 .K74 1979**
- **Teaching Mathematics:**
  - *Mathematics Content for Elementary Teachers*, 2005, by Douglas K. Brumbaugh.
  - *Mathematics for Dyslexics: A Teaching Handbook*, 1998, by Stephen J. Chinn and Richard J. Ashcroft.
  - *Teaching Mathematics: A Handbook for Primary and Secondary School Teachers*, 2006, by Pamela Cowan.
- **Math for other Majors/Professions:**
  - *Basic Math for Social Scientists: Problems and Solutions*, 1996, by Timothy M. Hagle.

- *Business Math Demystified*, 2006, by Allan G. Bluman.
- *Mathematics for Computer Graphics*, 2nd Edition, 2006, by John A. Vince.
- *Nursing Calculations*, 6th Edition, 2002, by J. D. Gatford.
- *Schaum's Outline of Theory and Problems of Basic Mathematics with Applications to Science and Technology*, 1998, by Haym Kruglak.
- **Careers in Mathematics:**
  - *Careers in Mathematics: Teacher, Statistician, Actuary, Operations Research, Computer Programmer, Systems Analyst*, 2005, Chicago Institute for Career Research.
  - *Great Jobs for Math Majors*, 1999, by Stephen Lambert and Ruth J. DeCotis.

Visit our eBook Collections, <http://library.rpcc.edu/ebooks.html>, for links to eBook Collection from EBSCOhost and other e-book collections. Please note that books that are still protected by copyright may not be available online in full-text from the free sources.

### Locations of Mathematics Resources in the Library:

Mathematics-related topics can be found in resources located in these Library of Congress call number ranges:

- **QA1 to QA939** - Mathematics.
  - **QA1 to QA43** - General.
    - **QA11 to QA20** - Study and teaching.
    - **QA21 to QA27.5** - History of mathematics.
    - **QA28 to QA29** - Biography.
    - **QA40** - Handbooks, manuals, etc.
  - **QA101 to QA145** - Elementary mathematics. Arithmetic.
    - **QA135 to QA139** - Study and teaching.
  - **QA150 to QA272.5** - Algebra.
  - **QA273 to QA280** - Probabilities. Statistics.
  - **QA299.6 to QA433** - Analysis.
    - **QA303 to QA316** - Calculus.
  - **QA440 to QA699** - Geometry. Trigonometry.

### Selected Books in the Library:

#### General Reference:

- *Math Dictionary with Solutions: A Math Review*, 2nd Edition, 1999.  
Call number: **QA 5 .K692 1999**
- *The World of Mathematics*, 2000.  
Call number: **QA 7 .W67 2000**, in 4 volumes.

#### History of Mathematics and Mathematicians:

- *Biographical Encyclopedia of Mathematicians*, 1999.  
Call number: **QA 28 .B544 1999 REF**, in 2 volumes.
- *Math & Mathematicians: The History of Math Discoveries Around the World*, 1999.  
Call number: **QA 21 .B78 1999**, in 4 volumes.
- *The Norton History of the Mathematical Sciences*, 1998.  
Call number: **QA 221 .G695 1998**

### Basic Mathematics:

- *Bob Miller's Basic Math and Pre-algebra, For the Clueless Series*, 2nd Edition, 2007.  
Call number: **QA 39.3 M57 2007**
- *Everyday Math Demystified*, 2004.  
Call number: **QA 93 .G37 2004**
- *Math Essentials: Conquer Fractions, Decimals and Percentages - Get the Right Answer Every Time!* 2nd Edition, 2000.  
Call number: **QA 107 .S5384 2000**; the 2006 3rd Edition also available from LearningExpress Library eBooks.

### Algebra:

- *Algebra for Dummies*, 2001.  
Call number: **QA 155 .S74 2001B**
- *How to Solve Word Problems in Algebra: A Solved Problem Approach*, 2nd Edition, 2000.  
Call number: **QA 157 .J7 2000**
- *No Fear Algebra: Just the Basics*, 2004.  
Call number: **QA 152.2 .F87 2005**

### Geometry:

- *Geometry Demystified*, 2003.  
Call number: **QA 453 .G43 2003**
- *Geometry Success in 20 Minutes a Day*, 1st Edition, 2000.  
Call number: **QA 461 .T46 2000**; the 2nd Edition, 2005, is also available online from LearningExpress Library eBooks.
- *How to Solve Word Problems in Geometry*, 2000.  
Call number: **QA 461 .S68 2000**

### Trigonometry:

- *The Algebra & Trigonometry Problem Solver: A Complete Solution Guide to Any Textbook*, 2000.  
Call number: **QA 157 .A48 2000**
- *Trigonometry Demystified*, 2003.  
Call number: **QA 531 .G53 2003**; also available as a NetLibrary e-book.
- *Trigonometry: the Easy Way*, 3rd Edition, 2001.  
Call number: **QA 531 .D683 2001**

### Calculus:

- *Calculus Demystified*, 2003.  
Call number: **QA 303.2 .K74 2003**
- *Calculus for the Utterly Confused*, 2nd Edition, 2007.  
Call number: **QA 303.2 .O43 2007**
- *Inside Calculus*, 2000.  
Call number: **QA 303 .E95 2000**

### Statistics:

- *Statistics Demystified*, 2004.  
Call number: **QA 276.12 .G44 2004**
- *Statistics for the Utterly Confused*, 2000.  
Call number: **QA 276.18 .J35 2000**

- *Statistics: A Gentle Introduction*, 2000.  
Call number: QA 276.12 .C67 2000

### Other Topics in Mathematics:

- **Math Anxiety & General Help:**
  - *Fear of Math: How to Get Over It and Get On with Your Life*, 1994.  
Call number: QA 11 .Z37 1994
  - *Math, a Four Letter Word! The Math Anxiety Handbook*, 2nd Edition, 1993.  
Call number: QA 11 .S447 1993
  - *Math for the Anxious: Building Basic Skills*, 2005.  
Call number: QA 93 .P76 2005
- **Teaching Mathematics:**
  - *Early Childhood Number Games: Teachers Reinvent Math Instruction*, 1998.  
Call number: QA 135.5 .W245 1998
  - *Experiences in Math for Young Children*, 4th Edition, 1999.  
Call number: QA 135.5 .C46 1999
- **Math for other Majors/Professions:**
  - *Math and Music: Harmonious Connections*, 1994.  
Call number: ML 3800 .G23 1994
  - *Mathematical Modeling in the Environment*, 1998.  
Call number: GE 45 .M37 H24 1998
  - *Mathematics for Chemistry and Physics*, 2002.  
Call number: QA 37.3 .T87 2002
  - *Mathematics for the Nonmathematician*, 1985  
Call number: QA 37.2 .K6 1985
  - *Practical Problems in Mathematics for Health Occupations*, 2nd Edition, 2005.  
Call number: RT 68 .S56 2005
- **Careers in Mathematics:**
  - *101 Careers in Mathematics*, 1996.  
Call number: QA 10.5 .A15 1996

### Multi-Media Tutorials:

The following items and more are available in VHS, DVD, or CD-ROM formats, as indicated, and may be checked out for 2 days. Up to 4 items may be borrowed at a time and they may be renewed. All are located in C-119 (LRC), either in the Math Tutorials section or the CD-ROM case.

- *Basic College Mathematics: An Applied Approach, 8th Edition*, 2006.  
Call number: QA 39.2 .A83 2006, in 2 sets of 11 volumes, VHS. We also have the 7th Edition in DVD, call number: QA 39.2 .A885 2003
- *College Algebra*, 4th Edition, 2007; this set corresponds to the current MATH 1100 textbook.  
Call number: QA154.2 .D82 2007, in two formats:  
6 sets of 9 volumes in VHS & 7 sets of 7 volumes in CD-ROM.
- *Math Star Series*
  - *Algebra I*, 1991.  
Call number: QA 152.2 .M3 1991, in 42 volumes, VHS.
  - *Algebra II*, 1992.  
Call number: QA 155 .A444 1992, in 40 volumes, VHS.

- *Calculus*, 1994.  
Call number: **QA 303 .M384 1994**, in 16 volumes, VHS.
- *Trigonometry*, 1993.  
Call number: **QA 537 .M38 1993**, in 8 volumes, VHS.

### **Online Resources:**

The following resources have been reviewed and selected in collaboration with relevant faculty. Please note that websites outside of RPCC are beyond our control. We strive to ensure that the sites that we recommend are reliable and valid sources of high-quality information. Please let us know if you find any consistently dead links.

- **TheMathPage**

<http://www.themathpage.com/>

From Lawrence Spector, a Mathematics instructor at the Borough of Manhattan Community College/City University of New York. Offers courses in arithmetic, geometry, algebra, and more.

- **S.O.S. Mathematics**

<http://www.sosmath.com/>

Created by 3 mathematics professors, this resource offers tutorials, practice tests, tables and a forum for users to post questions and problems.

- **Virtual Math Lab**

<http://www.wtamu.edu/academic/anns/mps/math/mathlab/>

From West Texas A&M University, this resource offers help with beginning, intermediate, and college algebra.

- **WebMATH**

<http://www.webmath.com/>

From Discovery Education, is a math help resource that can help students solve specific problems. It uses fill-in forms to input numbers, then explains the solution.