

**A LIST OF TEXTBOOKS AND REFERENCES FOR ALL MATHEMATICS COURSES
DEPARTMENT OF BASIC SCIENCES AND MATHEMATICS – PHILADELPHIA UNIVERSITY, JORDAN**

Code	Course Name	Author(s) and Title	Edition	Publisher	ISBN
210101	Mathematics 1	Salas, Hille, and Etgen, Calculus: One and Several Variables	2007 (10)	Wiley	0471698040
		Edwards and Penney, Calculus	2002 (6th)	Prentice Hall	0130950068
		Thomas and Finney, Thomas' Calculus, Updated	2003 (10)	Addison Wesley	0321116364
		George F. Simmons, Calculus with Analytic Geometry	1996 (2nd)	McGraw Hill	0070576424
		James Stewart, Calculus	2008 (6th)	Brooks Cole	0495011606
210102	Mathematics 2	Same as 210101			
210103	Mathematics for Computing	Same as 210101			
210104	Discrete Structures	Kenneth H. Rosen, Discrete Mathematics and Its Applications	2007 (6th)	McGraw Hill	0072880082
		Ralph P. Grimaldi, Discrete and Combinatorial Mathematics	2004 (5th)	Addison Wesley	0201726343
		Humphreys and Prest, Numbers, Groups and Codes	2004 (2nd)	Cambridge Press	052154050x
		Goodaire and Parmenter, Discrete Mathematics with Graph Theory	2006 (3rd)	Prentice Hall	0131679953
		Kolman, Busby, and Ross, Discrete Mathematical Structures	2004 (5th)	Prentice Hall	0131230468
210106	Mathematics for Engineering	Same as 210101			
210231	Introduction to Probability and Statistics	DeGroot and Schervish, Probability and Statistics	2002 (3rd)	Addison Wesley	0321204735
		McClave and Sincich, Statistics	2006 (10)	Prentice Hall	0132003023
		Freedman, Pisani, and Purves, Statistics	1997 (3rd)	Norton	0393970833
		Montgomery and Runger, Applied Statistics and Probability for Engineers	2002 (3rd)	Wiley	0471381810
		Prem S. Mann, Introductory Statistics	2007 (6th)	Wiley	0471755303
210235	Biostatistics	Same as 210231			
210331	Design of Experiments	Douglas C. Montgomery, Design and Analysis of Experiments	2000 (5th)	Wiley	0471316490
		Hicks and Turner, Fundamental Concepts in the Design of Experiments	1999 (5th)	Oxford U. Press	0195122739
		Santner, Williams, and Notz, The Design and Analysis of Computer Experiments	2003	Springer Verlag	0387954201
		Geoffrey Keppel, Design and Analysis: A Researcher's Handbook	1991 (3rd)	Prentice Hall	0132007754
		Campbell and Stanley, Experimental and Quasi-Experimental Designs for	1990	Houghton Mifflin	0395307872

		Research			
210332	Applied Probability	Sheldon Ross, A First Course in Probability	2006 (7th)	Prentice Hall	0132018179
		Kenneth Lange, Applied Probability	2003	Springer Verlag	0387004254
		Jim Pitman, Probability	1997	Springer Verlag	0387979743
		Grimmett and Stirzaker, Probability and Random Processes	2001	Oxford U. Press	0198572220
		Ian F. Blake, Introduction to Applied Probability	1987	Krieger Publishing	0894642111
210381	Problem Solving	Vaderlind, Guy, and Larson, The Inquisitive Problem Solver	2002	MAA	0883858061
		Arthur Engel, Problem Solving Strategies	1997	Springer Verlag	0387982191
		George Polya, How To Solve It	1971	Princeton U. Press	0691023565
		Ross Honsberger, Mathematical Gems II	1976	MAA	0883853191
		Barbeau, Klamkin, and Moser, Five Hundred Mathematical Challenges	1995	MAA	0883855194
210481	Instructional Strategies for Teaching Mathematics	Alan C. Tucker, Editor, Models That Work: Case Studies in Effective Undergraduate Mathematics Programs	1995	MAA	0883850966
		Musser B. Peterson, Mathematics for Elementary Teachers: A Contemporary Approach	2003 (6th)	Wiley	0471164259
		Meier and Rishel, Writing in the Teaching and Learning of Mathematics	1998	MAA	088385158x
		Andrew Sterrett, Editor, Using Writing to Teach Mathematics	1990	MAA	0883850664
		DeLong and Winter, Learning to Teach and Teaching to Learn: Mathematics Resources for Professional Development	2001	MAA	0883851687
210482	Pedagogy of Mathematics	Daniel Solow, How to Read and Do Proofs: An Introduction to Mathematical Thought Processes	2005 (4th)	Wiley	0471680583
		Leonard Gillman, Writing Mathematics Well	1987	MAA	0883854430
		Knuth, Larrabee, and Roberts, Mathematical Writing	1990	MAA	088385063x
		Daepf and Gorkin, Reading, Writing, and Proving: A Closer Look at Mathematics	2003	Springer Verlag	0387008349
		George Polya, Mathematics and Plausible Reasoning	1990	Princeton U. Press	0691025096
250151	Discrete Mathematics	Same as 210104			
250201	Intermediate Analysis	Same as 210101			
250203	Ordinary Differential Equations	Edwards and Penney, Elementary Differential Equations with Boundary Value Problems	1999 (4th)	Prentice Hall	0130174475

		Boyce and DiPrima, Elementary Differential Equations	2004 (8th)	Wiley	047143339x
		George F. Simmons, Differential Equations with Applications and Historical Notes	1991 (2nd)	McGraw Hill	0070575401
		Richard Haberman, Applied Differential Equations	2003	Prentice Hall	0130652431
		Zill and Cullen, Differential Equations with Boundary-Value Problems	2008 (7th)	Brooks Cole	0495108367
250232	Probability Theory	Same as 210332			
250241	Linear Algebra 1	Howard Anton, Elementary Linear Algebra	2005 (9th)	Wiley	0471669601
		Sheldon J. Axler, Linear Algebra Done Right	1997 (2nd)	Springer Verlag	0387982582
		Gilbert Strang, Introduction to Linear Algebra	2003 (3rd)	Wellesley Press	0961408898
		David C. Lay, Linear Algebra and Its Applications	2002 (3rd)	Addison Wesley	0201709708
		Blyth and Robertson, Basic Linear Algebra	2002 (2nd)	Springer Verlag	1852336625
250251	Set Theory	Smith, Eggen, and St. Andre, A Transition to Advanced Math	2006 (6th)	Brooks Cole	0824779150
		D. L. Johnson, Elements of Logic via Numbers and Sets	1998	Springer Verlag	0534399002
		Michael L. O'Leary, The Structure of Proof with Logic and Set Theory	2002	Prentice Hall	0130190772
		Keith Devlin, Sets, Functions, and Logic: An Introduction to Abstract Mathematics	2003 (3rd)	CRC Press	1584884495
		Hrbacek and Jech, Introduction to Set Theory	1999 (3rd)	Marcel Dekker	0824779150
250261	Modern Euclidean Geometry	Marvin J. Greenberg, Euclidean and Non-Euclidean Geometries	1993 (3rd)	Freeman	0716724464
		James R. Smart, Modern Geometries	1998 (5th)	Brooks Cole	0534351883
		Arthur Baragar, A Survey of Classical and Modern Geometries with Computer Activities	2001	Prentice Hall	0130143189
		Judith N. Cederberg, A Course in Modern Geometries	2001 (2nd)	Springer Verlag	0387989722
		J. W. Anderson, Hyperbolic Geometry	2005 (2nd)	Springer Verlag	1852339349
250301	Advanced Calculus	Same as 210101			
250305	Partial Differential Equations	Richard Haberman, Applied Partial Differential Equations	2004 (4th)	Prentice Hall	0130652431
		Walter A. Strauss, Partial Differential Equations: An Introduction	2008 (2nd)	Wiley	0470054565
		Renardy and Rogers, An Introduction to Partial Differential Equations	2003 (2nd)	Springer Verlag	0387004440
		J. Kevorkian, Partial Differential Equations: Analytical Solution Techniques	1999 (2nd)	Springer Verlag	0387986057
		G. Evans, Partial Differential Equations	1998	AMS	0821807722

250311	Real Analysis 1	Walter Rudin, Principles of Mathematical Analysis	1976 (3rd)	McGraw Hill	007054235x
		Kenneth A. Ross, Elementary Analysis: The Theory of Calculus	1980	Springer Verlag	038790459x
		Bartle and Sherbert, Introduction to Real Analysis	2000 (3rd)	Wiley	0471321486
		Arthur Mattuck, Introduction to Analysis	1999	Prentice Hall	0130811327
		Dangelo and Seyfried, Introductory Real Analysis	2000	Houghton Mifflin	0395959336
250312	Complex Analysis	Brown and Churchill, Complex Variables and Applications	2009 (8th)	McGraw Hill	0073051942
		H. A. Priestley, Introduction to Complex Analysis	2003 (2nd)	Oxford U. Press	0198525621
		Lars V. Ahlfors, Complex Analysis	1979 (3rd)	McGraw Hill	0070006571
		Steven G. Krantz, Complex Analysis: The Geometric Viewpoint	1990	MAA	0883850265
		Freitag and Busam, Complex Analysis	2006	Springer Verlag	3540257241
250313	Number Theory	Kenneth H. Rosen, Elementary Number Theory and Its Applications	2005 (5th)	Addison Wesley	0321263146
		Harold Davenport, The Higher Arithmetic: An Introduction to the Theory of Numbers	2008 (8th)	Cambridge Press	0521722365
		David M. Burton, Elementary Number Theory	2007 (6th)	McGraw Hill	0073051888
		Amin Witno, Theory of Numbers	2008	BookSurge	1419687352
		Hardy and Wright, An Introduction to the Theory of Numbers	2008 (6th)	Oxford U. Press	0199219869
250321	History of Mathematics	Eric T. Bell, Men of Mathematics	1986	Touchstone Books	0671628186
		Carl B. Boyer, A History of Mathematics	1991 (2nd)	Wiley	0471543977
		David M. Burton, The History of Mathematics: An Introduction	2003 (5th)	McGraw Hill	0072471409
		Dirk J. Struik, A Concise History of Mathematics	1987 (4th)	Dover	0486602559
		Howard Eves, An Introduction to the History of Mathematics	1990 (6th)	Brooks Cole	0030295580
250332	Mathematical Statistics	Robert V. Hogg, Introduction to Mathematical Statistics	1995 (5th)	Prentice Hall	0023557109
		T. W. Anderson, An Introduction to Multivariate Statistical Analysis	2003 (3rd)	Wiley	0471360910
		John A Rice, Mathematical Statistics and Data Analysis	1994 (2nd)	Duxbury Press	0534209343
		Larsen and Marx, An Introduction to Mathematical Statistics and Its Applications	2000 (3rd)	Prentice Hall	0139223037
		Paul G. Hoel, Introduction to Mathematical Statistics	1984 (5th)	Wiley	0471890456
250341	Linear Algebra 2	Friedberg, Insel, and Spence, Linear Algebra	2003 (4th)	Prentice Hall	0131202669

		Kenneth Hoffman, Linear Algebra	2004 (3rd)	Prentice Hall	0131814966
		Gilbert Strang, Linear Algebra and Its Applications	2006 (4th)	Brooks Cole	0030105676
		Fraleigh and Bearegard, Linear Algebra	1995 (3rd)	Addison Wesley	0201839997
		Blyth and Robertson, Further Linear Algebra	2002	Springer Verlag	1852334258
250342	Abstract Algebra 1	Joseph A. Gallian, Contemporary Abstract Algebra	2006 (6th)	Houghton Mifflin	0618514716
		John B. Fraleigh, A First Course in Abstract Algebra	2003 (7th)	Addison Wesley	0321156080
		Michael J. Collins, Introduction to Group Theory	2009	CRC Press	1584886218
		Nicodemi, Sutherland, and Towsley, An Introduction to Abstract Algebra with Notes to the Future Teacher	2007	Prentice Hall	0131019635
		John F. Humphreys, A Course in Group Theory	1996	Oxford U. Press	0198534590
250351	Graph Theory	Chartrand and Zhang, Introduction to Graph Theory	2005	McGraw Hill	0073204161
		W. D. Wallis, A Beginner's Guide to Graph Theory	2006 (2nd)	Birkhauser	0817644849
		Bondy and Murty, Graph Theory with Applications, Revised Edition	2005	Wiley	0471363243
		Agnarsson and Greenlaw, Graph Theory: Modeling, Applications, and Algorithms	2007	Prentice Hall	0131565362
		Daniel A. Marcus, Graph Theory: A Problem Oriented Approach	2008	MAA	0883857537
250371	Numerical Analysis	Burden and Faires, Numerical Analysis	2005 (8th)	Brooks Cole	0534392008
		Kendall E. Atkinson, Elementary Numerical Analysis	2004 (3rd)	Wiley	0471452262
		Brian Bradie, A Friendly Introduction to Numerical Analysis	2006	Prentice Hall	0131911716
		Chapra and Canale, Numerical Methods for Engineers	2006 (5th)	McGraw Hill	0073101567
		Cheney and Kincaid, Numerical Mathematics and Computing	2008 (6th)	Brooks Cole	0495114758
250372	Computer-Aided Mathematics	I. Koren, Computer Arithmetic Algorithms	2001 (2nd)	A. K. Peters	1568811608
		Carl Leinbach, etc., The Laboratory Approach to Teaching Calculus	1991	MAA	0883850745
		Zaven Karian, ed., Symbolic Computation in Undergraduate Mathematics Education	1992	MAA	0883850826
		Gander and Hrebicek, Solving Problems in Scientific Computing Using Maple and MATLAB	2001 (3rd)	Springer Verlag	3540617930
		David Carlson, etc., Resources for Teaching Linear Algebra	1997	MAA	0883851504
250411	Real Analysis 2	Same as 250311			

250412	Functional Analysis	John B. Conway, A Course in Functional Analysis	1990 (2nd)	Springer Verlag	0387972455
		Hirsch, Lacombe, and Lew, Elements of Functional Analysis	1999	Springer Verlag	0387985247
		L. W. Baggett, Functional Analysis: A Primer	1991	Marcel Dekker	0824785983
		Karen Saxe, Beginning Functional Analysis	2002	Springer Verlag	0387952241
		Walter Rudin, Functional Analysis	1991 (2nd)	McGraw Hill	0070542368
250442	Abstract Algebra 2	Joseph A. Gallian, Contemporary Abstract Algebra	2006 (6th)	Houghton Mifflin	0618514716
		Dummit and Foote, Abstract Algebra	2003 (3rd)	Wiley	0471433349
		Atiyah and MacDonald, Introduction to Commutative Algebra	1994	Westview Press	0201407515
		John M. Howie, Fields and Galois Theory	2007	Springer Verlag	1852339861
		Ian Stewart, Galois Theory	2003 (3rd)	CRC Press	1584883936
250461	Topology 1	James R. Munkres, Topology	2000 (2nd)	Prentice Hall	0131784498
		Mark A. Armstrong, Basic Topology	1997	Springer Verlag	0387908390
		Singer and Thorpe, Lecture Notes on Elementary Topology and Geometry	1976	Springer Verlag	0387902023
		Glen E. Bredon, Topology and Geometry	1997	Springer Verlag	0387979263
		K. Janich, Topology	1995	Springer Verlag	0387908927
250463	Topology 2	William Fulton, Algebraic Topology: A First Course	1997	Springer Verlag	0387943277
		Joseph J. Rotman, An Introduction to Algebraic Topology	1994	Springer Verlag	0387966781
		Edwin H. Spanier, Algebraic Topology	1995	Springer Verlag	0387944265
		Allen Hatcher, Algebraic Topology	2002	Cambridge Press	0521795400
		Stephen Willard, General Topology	2004	Dover	0486434796
250471	Mathematical Modeling	Mooney and Swift, A Course in Mathematical Modeling	1999	MAA	088385712x
		Thomas Svobodny, Mathematical Modeling for Industry and Engineering	1997	Prentice Hall	0132608944
		Clive Dym, Principles of Mathematical Modeling	2004 (2nd)	Academic Press	0122265513
		Giordano, Fox, Horton, and Weir, First Course in Mathematical Modeling	2009 (4th)	Brooks Cole	0495011592
		Pierre Bremaud, Introduction to Probabilistic Modeling	1994	Springer Verlag	0387964606
250472	Computational Number Theory	Bressoud and Wagon, A Course in Computational Number Theory	2000	Springer Verlag	1930190107
		Amin Witno, Theory of Numbers	2008	BookSurge	1419687352
		Harold M. Edwards, Higher Arithmetic: An Algorithmic Introduction to	2008	AMS	0821844393

		Number Theory			
		Crandall and Pomerance, Prime Numbers: A Computational Perspective	2005 (2nd)	Springer Verlag	0387252827
		Richard Pinch, Computational Number Theory	2009	Cambridge Press	0521452481
250473	Advanced Applied Mathematics	James P. Keener, Principles of Applied Mathematics: Transformation and Approximation	2000	Perseus Books	0738201294
		Guenther and Konig, A First Course in Applied Mathematics	2004	Prentice Hall	013519976x
		Eriksson, Estep, and Johnson, Applied Mathematics: Body and Soul: Integrals and Geometry in R^n	2004	Springer Verlag	3540008896
		Eriksson, Estep, and Johnson, Applied Mathematics: Body and Soul: Derivatives and Geometry in R^3	2004	Springer Verlag	354000890x
		Eriksson, Estep, and Johnson, Applied Mathematics: Body and Soul: Calculus in Several Dimensions	2004	Springer Verlag	3540008918
250474	Control Theory	Macki and Strauss, Introduction to Optimal Control Theory	1995	Springer Verlag	038790624x
		S. Sivasundaram, Advances in Dynamics and Control	2004	Chapman Hall	0415308526
		William L. Brogan, Modern Control Theory	1990 (3rd)	Prentice Hall	0135897637
		Pablo Pedregal, Introduction to Optimization	2003	Springer Verlag	0387403981
		Frederick W. Fairman, Linear Control Theory	1998	Wiley	0471974897
250476	Game Theory	Morris, Introduction to Game Theory	1994	Springer Verlag	038794282x
		Kenneth Binmore, Fun and Games: A Text on Game Theory	2005 (2nd)	Houghton Mifflin	0395908132
		Fudenberg and Tirole, Game Theory	1994	MIT Press	0262061414
		Martin J. Osborne, Introduction to Game Theory	2003	Oxford U. Press	0195128958
		Osborne and Rubinstein, A Course in Game Theory	1994	MIT Press	0262650401