

Department of Mathematics
Book List
Fall 2008

Course #	Course	Faculty	Text Title	Author(s)	Publisher
22M:001	Basic Algebra I		Beginning Algebra, 10th ed.	Lial, Hornsby, McGinnis	Addison-Wesley
22M:002	Basic Algebra II		College Algebra and Trigonometry, 3rd ed.	Lial, Hornsby, Schneider	Addison-Wesley
22M:002	Basic Algebra II		Recommended: Student Solutions Manual	Lial, Hornsby, Schneider	Addison-Wesley
22M:003	Basic Geometry		Geometry, 2nd ed	Lang and Murrow	Springer
22M:003	Basic Geometry		Recommended: Student Solutions manual (if available)	Lang and Murrow	Springer
22M:005	Trigonometry		College Algebra and Trigonometry, 3rd ed.	Lial, Hornsby, Schneider	Addison-Wesley
22M:005	Trigonometry		Student Solutions Manual	Lial, Hornsby, Schneider	Addison-Wesley
22M:006 (ok)	Logic of Arithmetic	Seaman	Mathematics For Elementary Teachers: A Contemporary Approach, 8th Ed	Musser/Burger/Peterson	Wiley
22M:006 (ok)	Logic of Arithmetic		Recommended: Mathematics For Elementary Teachers: A Contemporary Approach, 8th Ed solutions manual	Musser/Burger/Peterson	Wiley
22M:009	Elementary Functions		Precalculus, 8th ed.	Sullivan	Prentice Hall
22M:010 (ok)	Finite Mathematics	Durumeric	Finite Mathematics 10th ed	Sullivan	Prentice Hall/Wiley?
22M:012	Theory of Arithmetic	Roseman	Mathematical Reasoning For Elementary Teachers FIFTH Ed	Long/DeTemple	Pearson Addison Westly
22M:012	Theory of Arithmetic	Roseman	Recommended: Mathematical Reasoning For Elementary Teachers FIFTH Ed solutions manual	Long/DeTemple	Pearson Addison Westly
22M:013	Math for Business	Blanchard/Camillo	Precalculus 7th ed (Special UI edition with selected materials)	Larson/Hostetler	Houghton Mifflin Co
22M:014	1st Year Seminar	Blanchard/Camillo	The man who loved only numbers ISBN: 0786884061	Hoffman, Paul	Hyperion
22M:015	Math for Bio Sciences	Gatica	Precalculus Graphs & Models, custom for UI	Bittinger et al.	Addison-Wesley
22M:016	Calc for Bio Sciences	Camillo	Calculus for the Life Sciences	Bittinger, Brand	Addison-Wesley
22M:017	Calc & Matrix Algebra/Bus	Baker/Kirk	Calculus for Business, Economics, & Soc & Life Sciences, 9th ed special UI edition with Matrix Algebra chapter	Hoffman, Bradley	McGraw-Hill
22M:017	Calc & Matrix Algebra/Bus	Baker/Kirk	Recommended: Student Solutions Manual - WITH MATHZONE UI edition	Hoffman, Bradley	McGraw-Hill
22M:025	Calculus I	Krisnamurthy/Curtu/Lin/ Radulescu/Gatica	Calculus, Early Transcendentals Single Variable, 6th Edition	Stewart	Thompson
22M:025:SCE	Calculus I	Stroyan	Interactive Multivariable Calculus 2nd print & Calculus: the Language of Change, 3rd ed	Stroyan	Zephyr copies
22M:026	Calculus II	Khurana/Curto/Pearse	Recommended: Student Solutions Manual	Stewart	Brooks/Cole
22M:026	Calculus II	Khurana/Curto/Pearse	Single Variable Calculus, Early Transcendentals, NEW 6th ed.	Stewart	Brooks/Cole
22M:027/104	Intro Linear Algebra	Nelson/Muhly/ Blanchard	Elementary Linear Algebra with Applications Appendix, 9th ed.	Anton	Wiley
22M:027/104	Intro Linear Algebra	Nelson/Muhly/ Blanchard	Recommended: Student Solutions Manual	Anton	Wiley
22M:028	Calculus III	Roseman	Student Solutions Manual	Colley	Prentice Hall
22M:028	Calculus III	Roseman	Vector Calculus, 3rd ed.	Colley	Prentice Hall
22M:031	Engineering Math I		Thomas' Calculus Early Transcendentals Part 1	Thomas et al.	Addison-Wesley
22M:032	Engineering Math II	Stroyan	Interactive Multivariable Calculus 2nd print & Calculus: the Language of Change, 3rd ed	Stroyan	Zephyr copies
22M:033	Engineering Math III	Johnson/Sokratova	Linear Algebra & Its Applications, 3rd ed update	Lay	Addison-Wesley
22M:033	Engineering Math III	Johnson/Sokratova	w/ My MathLab Student Access Kit	Lay	Addison-Wesley
22M:033	Engineering Math II	Stroyan	Mathematica NoteBooks CD-avail. at Zephyr Copies	Stroyan	Zephyr copies
22M:034	Engineering Math IV	Mitchell/Randell/Wu/Ton- That/Moreira	Elementary Differential Equations & Boundary Value Problems, 8th	Boyce & DiPrima	Wiley
22M:034	Engineering Math IV	Mitchell/Randell/Wu/Ton- That/Moreira	Student Solutions Manual	Boyce & DiPrima	Wiley
22M:037	Engineering Math V	Ayati/Fang	Calculus with Analytic Geometry, 5th ed.	Ellis & Gulick	Thomson

22M:037	Engineering Math V	Ayati/Fang	Recommended: Student Solutions Manual	Ellis & Gulick	Thomson
22M:050:AAA	Intro Abstract Algebra	Johnson/Nielson	A First Course in Abstract Algebra, 3rd ed.	Rotman	Prentice Hall
22M:055:	Fund Prop Spaces Func I	Frohman	Introduction to Real Analysis, 3rd ed	Bartle & Sherbert	Wiley
22M:072	Elementary Num Analysis	Stewart/Huang, Jianguo	Elementary Numerical Analysis	Atkinson & Han	Wiley
22M:096	Intro Math Research	Pearse	Partial Differential Equations on Fractils-a tutorial	Strichartz	
22M:100	Intro Ord Diff Equations	Byun, Sun-Sig	Differential Equations with Applications and Historical	Simmons	McGraw-Hill
22M:104	Intro Matrix Theory		SAME AS 22M:027		
22M:105	Basis Analysis		SAME AS 22M:055		
22M:109	Classical Analysis		SAME AS 22M:028		
22M:115	Intro to Analysis I	Muhly	Real Analysis, 4th ed preferred. If unavailable use 3rd ed	Royden	Prentice Hall
22M:118	Complex Variables	Khurana	Complex Variables, 2nd ed	Fisher	Dover
22M:120	Abstract Algebra		Abstract Algebra, 3rd ed	Dummit & Foote	Wiley
22M:126	Elem Theory of Numbers	Ye	A Friendly Introduction to Number Theory, 3rd ed	Silverman	Prentice Hall
22M:132	General Topology	Simon	Topology, A First Course, 2nd ed.	Munkres	Prentice Hall
22M:142	Nonlinear Dynamics with Numerical Methods	Jay	Differential Dynamic Systems (Series Monographs on Mathematical Modeling and Computation) ISBN-10: 0898716357, ISBN 978-0-898716-35-1	Meiss	SIAM
22M:150	Intro Descrete Math	Chindris	Introductory Combinatorics 4th ed	Brualdi	Prentice Hall
22M:160	Intro Diff Geometry I	Fang	Differential Geometry of Curves and Surfaces	DoCarmo	Prentice Hall
22M:170	Num Analysis Non Equa Approx Theory	Jay	Introduction to Numerical Analysis, 3rd ed, 2002 ISBN-10: 038795452X, ISBN-13:978-0387954523	Stoer & Bulirsch	Springer
22M:201	Intro Algebraic Topology	Darcy	A Basic Course in Algebraic Topology (Graduate Texts #127. Note: not same as Massey's GTM #56)	Massey	Academic Press
22M:201	Intro Algebraic Topology	Darcy	Algebraic Topology (available free online)	Hatcher	Cambridge
22M:203	Topology of Manifolds	Randall	Algebraic Topology (available free online)	Hatcher	Cambridge
22M:205	Intro to Aglebra I	Goodman	Groups and Representations	Alpern & Bell	Springer
22M:205	Intro to Aglebra I	Goodman	Recommended: A course in Ring Theory	Passman	
22M:210	Analysis I	Jorgensen	Real & Complex Analysis, 3rd ed	Rudin	McGraw-Hill
22M:216	Partial Diff Equations I	Curtu	Partial Differential Equations (Graduate Studies in Mathematics, V19, 1998	AMS	
22M:260	Differential Geometry I	Durumeric	Riemannian Geometry	DoCarmo	Birkhauser
22M:280	Intro Financial Mathmetics	Jorgensen	*REQUIRED: Option Pricing Portfolio Optimization: Modern Methods of Financial Mathematics ISBN: 0-8218-2123-7	Korn	Amer Math Society
22M:280	Intro Financial Mathmetics	Jorgensen	RECOMMENDED: Gaussian Processes, Function Theory, and the Inverse Spectral Problem ISBN: 048646279X	Dym & McKean	Dover
22M:280	Intro Financial Mathmetics	Jorgensen	RECOMMENDED: Operators and Representation Theory: Canonical Models for Algebras of Operators Arising in Quantum Mechanics ISBN 0486466655	Jorgensen	Dover
22M:280	Intro Financial Mathmetics	Jorgensen	RECOMMENDED: Stochastic Processes and Filtering Theory ISBN 0486462749	Jazwinski	Dover
22M:303	Topics in Analysis	Wang	A Geometric Approach to Free Boundary Problems (Graduate Studies in Mathematics series)	Caffarelli	Amer Math Society
22M:313	Functional Analysis	Muhly	Banach Algebra Techniques in Operator Theory 2nd Ed ISBN: 0-387-98377-5 (Published 1998)	Douglas, Ronald	Springer Verlag
22M:324	Topics/Parital Diff Equat	Wang	Fully Nonlinear Elliptic Equations	Carrarelli	Amer Math Society
22M:330	Topics in Algebra	Anderson/Goodman	Commutative Rings	Kaplansky	Polygonal Press