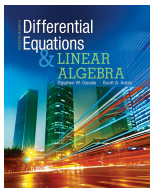
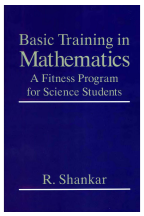
my courses

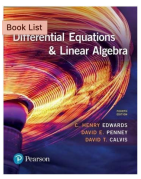
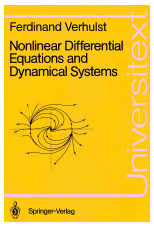
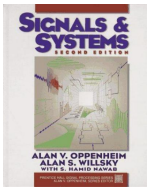
Nasser M. Abbasi

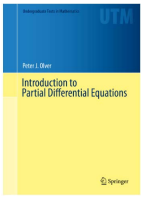
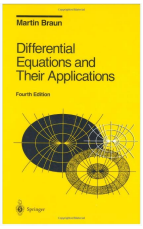
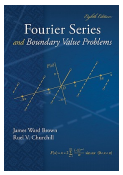
July 22, 2021 Compiled on July 22, 2021 at 11:42pm

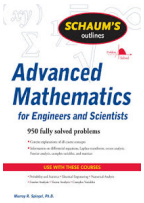
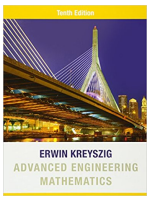
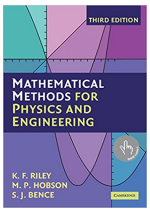
Contents

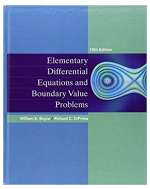
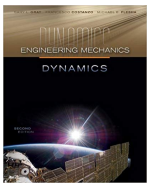
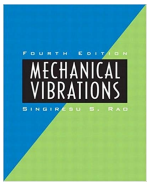
1 All credit courses listed in chronological order (140)

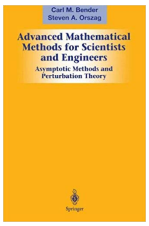
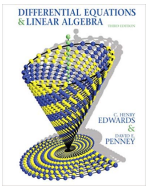
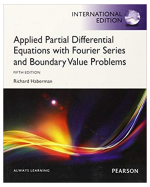
No.	degree	university	course name	department	date	text book	instructor
140	Non-degree	Normandale college, Bloomington, Minnesota	Math 2520, Differential Equations and Linear Algebra meeting: (online) discussion: N/A finals: TBA	Mathematics	Summer 2021	Differential Equations and Linear Algebra by Goode and Annin, 4th edition, published by Pearson 	Ghidei Zedingle
139	Non-degree	University of Minnesota, Twin Cities	PHYSICS 3041, Mathematical Methods for Physicists meeting: M W F 1:25-2:15 pm (online) discussion: N/A finals: TBA	Physics	Spring 2021	Basic Training in Mathematics: A Fitness Program for Science Students by R. Shankar 	Yong-Zhong Qian

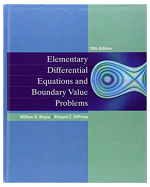
138	Non-degree	University of Minnesota, Twin Cities	Math 2243, Linear algebra and differential equations meeting: TTh 6:00 PM - 8:05 PM (online) discussion: N/A finals: December 17th from 12:00 PM - 3:00 PM	Mathematics	Fall 2020	Differential Equations and Linear Algebra (4th edition) by Edwards and Penny 	Lillian Webster
137	Non-degree	University of Minnesota, Twin Cities	MATH 5525, Introduction to Ordinary Differential Equations meeting: MoWeFr 11:15AM - 12:05PM, Vincent Hall 113 discussion: N/A finals: 1:30 to 3:30 p.m., Tuesday, May 12	Mathematics	Spring 2020	Nonlinear Differential Equations and Dynamical Systems by F.Verhulst, Springer. 	M. Carme Calderer
136	Non-degree	University of Minnesota, Twin Cities	EE 3015, Signals and Systems meeting: MoWeFr 10:10AM - 11:00AM, Keller Hall 3-125 discussion: We 12:20PM - 1:10PM, Vincent Hall 213 finals: 1:30 to 3:30 p.m., Saturday, May 9	Electrical Engineering	Spring 2020	Signals and Systems 2nd ed. Oppenheim, Willsky and Nawab 	A. B (Bob) Mahmoodi

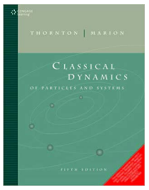
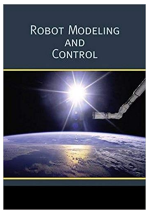
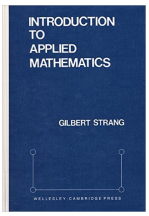
135	Non-degree	University of Minnesota, Twin Cities	MATH 5587, Elementary Partial Differential Equations I meeting: Tu Thu 4:45-6:00 PM, Amundson Hall 156 discussion: N/A finals: Tuesday Dec 10,2019 4:45-6:00pm, Amundson Hall 156	Mathematics	Fall 2019	Introduction to Partial Differential Equations by Peter Olver, ISBN 9783319020983 	Svitlana Mayboroda
134	Non-degree	University of Minnesota, Twin Cities	MATH 4512, DIFFERENTIAL EQUATIONS WITH APPLICATIONS meeting: MWF 10:10-11:00am, Vincent Hall 6 discussion: N/A finals: Dec 18,2019 8:00-10:00am, Vincent Hall 6	Mathematics	Fall 2019	Martin Braun, Differential Equations and their Applications, Springer (4th edition), 1993 	Helena Zarin
133	Non-degree	University of Minnesota, Twin Cities	MATH 4567 Applied Fourier Analysis meeting: Mo We Fr 3:35PM - 4:25PM, Vincent Hall 2 discussion: N/A	Mathematics	Spring 2019	Fourier Series and Boundary Value Problems, 8th edition by Brown, ISBN: 9780078035975 	Jiaping Wang

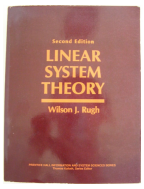
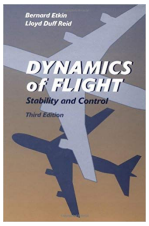
132	Non-degree	University of Minnesota, Twin Cities	PHYSICS 5041 Mathematical Methods for Physics meeting: Mo We 1:25PM - 2:15PM, Tate Hall 110, Fr 1:25PM - 3:20PM Tate Hall B65 discussion: N/A	Physics	Spring 2019	Schaums Outline Of Advanced Math For Engineers and Scientists, by Spiegel. ISBN: 9780071635400 	Joseph Kapusta
131	Non-degree	University Of Wisconsin, Milwaukee	Math 601 Advanced Engineering Mathematics I meeting: TuTh 9:30 AM-10:45 AM, Physics 152 discussion: N/A	Mathematics	Fall 2018	Advanced Engineering Mathematics, 10th Edition by Erwin Kreyszig 	Istvan Lauko
130	Non-degree	University Of Wisconsin, Milwaukee	Physics 501, Special Topics: Mathematical Models of Physical Problems I meeting: MW 12:30 PM-1:45 PM, KEN 1132 discussion: N/A	Physics	Fall 2018	Mathematical Methods for Physics and Engineering: A Comprehensive Guide, by K. F. Riley , M. P. Hobson , S. J. Bence, 3rd edition. 	Daniel Agterberg

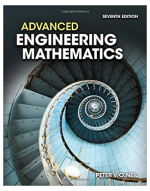
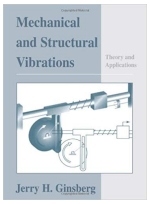
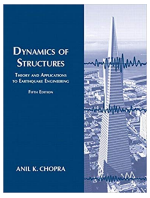
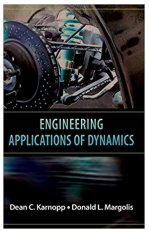
129	Non-degree	University Of Wisconsin, Milwaukee	Math 322 Introduction to Partial differential equations meeting: TuTh 2:00PM - 3:15PM EMS E160 discussion: N/A finals: Thursday May 17, 2018 10:00 AM-12:00 PM	Mathematics	Spring 2018	Elementary Differential Equations and Boundary Value Problems, 10th Edition. William E. Boyce, 200e Richard C. DiPrima 	Hans Volkmer
128	Non-degree	University Of Wisconsin, Madison	ME 240 Dynamics meeting: TuTh 1:20PM - 2:10PM ENGR HALL 1800 discussion: WeFr 9:55AM - 10:45AM, Wang,Shu 2108 MECH finals: 12/18/2017 10:05AM 12:05PM	Mechanical Engineering	Fall 2017	Dynamics ISBN 9780077891145 by Gray, Costanzo, Plesha MCGRAW HILL, second edition 	Sonny Aaron Nimityongskul
127	Non-degree	University Of Wisconsin, Madison	ME 440 Intermediate Vibrations meeting: TuTh 11:00AM - 12:15PM MECH ENGR 2108 discussion: N/A finals: 12/16/2017 2:45PM 4:45PM	Mechanical Engineering	Fall 2017	S. S. Rao Mechanical vibration 4th edition 	Andrew Mikkelson

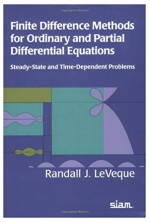
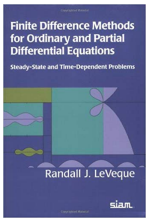
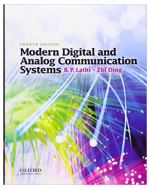
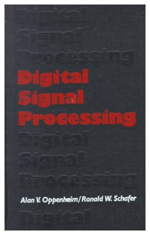
126	Non-degree	University Of Wisconsin, Madison	EP 548 Engineering Analysis II meeting: TuTh 11:00AM - 12:15PM VAN VLECK B341 discussion: N/A finals: 05/11/2017 10:05AM 12:05PM	Engineering Physics	Spring 2017	Advanced Mathematical Methods for Scientists and Engineers I, Bender and Orszag. 	Leslie Smith
125	Non-degree	University Of Wisconsin, Madison	Math 320 Linear algebra and differential equations meeting: TuTh 9:30AM - 10:45AM VAN VLECK B239 discussion: Mo 8:50AM - 9:40AM VAN VLECK B115 finals: 05/07/2017 7:25PM 9:25PM	Mathematics	Spring 2017	Differential Equations and Linear Algebra by Edwards and Penney 	Leslie Smith
124	Non-degree	University Of Wisconsin, Madison	Math 322 Applied Mathematical Analysis meeting: MWF, 12:05-12:55 Van Hise 115 discussion: N/A finals: Sat dec 17, 5:05 PM to 7:05 PM.	Mathematics	Fall 2016	Applied Partial Differential Equations with Fourier Series and Boundary Value Problems, 5th ed. Richard Haberman 	Leslie Smith

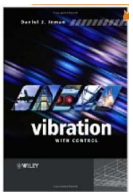
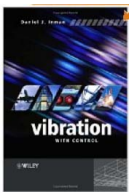
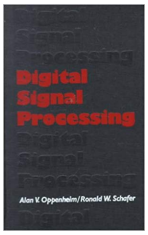
123	Non-degree	University Of Wisconsin, Madison	Math 319: Techniques in Ordinary Differential Equations meeting: MoWeFr 2:25PM - 3:15PM, VAN VLECK B239 finals: Dec 22, 2016 12:25 PM-2:225 PM	Mathematics	Fall 2016	Elementary Differential Equations, 9th ed by William E. Boyce, Richard C. DiPrima 	Minh-Binh Tran
122	Non-degree	University Of Wisconsin, Madison	ECE 719, Optimal systems meeting: TuTh 9:30AM - 10:45AM, ENGR HALL 3418 finals: May 5 2016, 9:30 AM	Electrical Engineering	Spring 2016	Class notes	B. R. Barmish
121	Non-degree	University Of Wisconsin, Madison	EMA 471 Intermediate Problem Solving for Engineers meeting: TuTh 8:00AM - 9:15AM ENGR HALL 2261 finals: 05/12/2016 7:45AM 9:45AM	Engineering Mechanics	Spring 2016	Class notes	Robert J. Witt
120	Non-degree	University Of Wisconsin, Madison	ECE 332, feedback control meeting: TuTh 9:30AM - 10:45AM, ENGR HALL 3418 finals: 12/10/2015, 9:30 AM	Electrical Engineering	Fall 2015	Class notes	B. R. Barmish

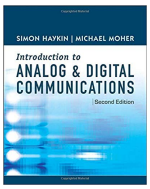
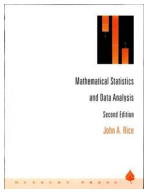
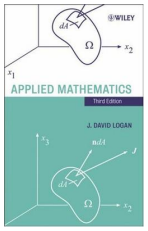
119	Non-degree	University Of Wisconsin, Madison	Physics 311 (Mechanics) meeting: MWF 11:00AM - 11:50AM, VAN HISE 494 discussion: Th 1:20PM - 2:10PM CHAMBERLIN 2108 finals: 12/17/2015 5:05PM	Physics	Fall 2015	S.T. Thornton, J.B. Marion, Classical Dynamics of Particles and Systems, 5th Edition, Brooks/Cole, 2004, ISBN 0534408966 	Stefan Westerhoff
118	Non-degree	University Of Wisconsin, Madison	ECE/ME 739, Introduction to Robotics	Electrical Engineering	Spring 2015	Robot Modeling and Control, by Spong, Hutchinson, and Vidyasagar ISBN ISBN 0-471-64990-2 	Michael Zinn
117	MS Engineering Mechanics	University Of Wisconsin, Madison	Math 703 methods of applied mathematics I meeting: Mu,Thu 11:00AM - 12:15PM VAN VLECK B139	Mathematics	Fall 2014	Introduction to Applied Mathematics, ISBN 0961408804 by Gilbert Strang 	Gheorghe Craciun

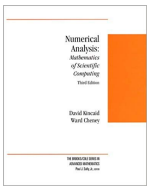
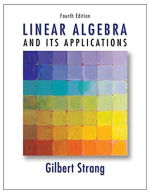
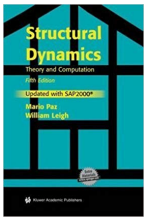
116	MS Engineering Mechanics	University Of Wisconsin, Madison	ECE 717 Linear systems meeting: TuTh 2:30PM - 3:45PM ENG HALL 3444 finals: 12/18/2014 10:05AM	Electrical Engineering	Fall 2014	Linear System Theory (second edition) ISBN 0134412052 by W.J. Rugh 	B. R. Barmish
115	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 550 astrodynamics meeting: TuTh 2:30PM - 3:45PM ENGR HALL 2265 finals: 05/15/2014 12:25PM 2:25PM	Engineering Mechanics	Spring 2014	class notes	Suzannah Sandrik
114	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 523 flight dynamics and control meeting: Tue, Thu, 11:00AM - 12:00PM finals: Tu,Th 9:30AM - 10:45AM ENGR HALL 1209	Engineering Mechanics	Spring 2014	Dynamics of flight, stability and control, 3rd ed Wiley, Etkin B. and Reid L.D. 1996 	Riccardo Bonazza
113	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 542 Advanced Dynamics meeting: M W F 9:55AM - 10:45AM ENGR HALL 2255 finals: 12/19/2013 12:25PM 2:25PM	Engineering Mechanics	Fall 2013	Class notes	Daniel C. Kammer

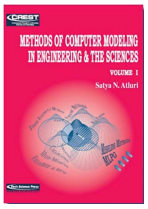
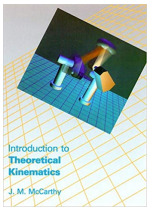
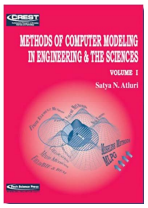
112	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 547 Engineering analysis 1 meeting: M W F 11:00AM - 11:50AM ENGR HALL 2305 finals: 12/20/2013 10:05AM 12:05PM	Engineering Mechanics	Fall 2013	Advanced Engineering Mathematics, Peter V. ONeil 6th ed 	Douglass L. Henderson
111	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 545 Engineering Vibration	Engineering Mechanics	Spring 2013	Mechanical and Structural Vibration by Ginsberg 	Matt Allen
110	MS Engineering Mechanics	University Of Wisconsin, Madison	CEE 744 Structural Dynamics and Earthquake Engineering	Civil Engineering	Spring 2013	Dynamics of Structures, Anil K. Chopra, Prentice-Hall 	Michael Oliva
109	Non-degree	University of California, Davis	EME 121 Engineering applications of dynamics	Mechanical Engineering	Spring 2011	Engineering applications of dynamics by Karnopp and Margolis 	Donald Margolis

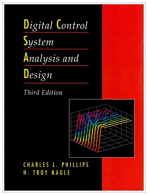
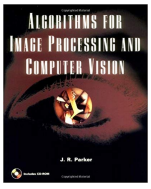
108	Non-degree	University of California, Davis	Math 228B Numerical Solution of Differential Equations	Mathematics	Winter 2011	Finite Difference Methods for Ordinary and Partial Differential Equations by Randall J. LeVeque 	Robert Guy
107	Non-degree	University of California, Davis	Math 228A Numerical Solution of Differential Equations	Mathematics	Fall 2010	Finite Difference Methods for Ordinary and Partial Differential Equations by Randall J. LeVeque 	Robert Guy
106	Non-degree	Cal Poly Pomona, California	ECE 405 Communication systems	Electrical Engineering	Summer session I 2010	Modern digital and analog communication systems by Lathi 	James Kang
105	Non-degree	California state University Fullerton	EGEE 420 Digital filters	Electrical Engineering	Spring 2010	DIGITAL SIGNAL PROCESSING by OPPENHEIM 	Mostafa Shiva

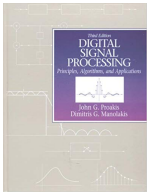
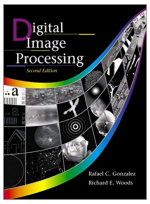
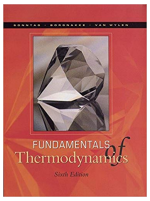
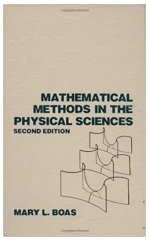
104	Non-degree	California state University Fullerton	EGEE 409 Linear systems and signals	Electrical Engineering	Spring 2010	Signals and linear systems by Gabel and Roberts, 3rd ed 	Mohinder S. Grewal
103	Non-degree	California state University Fullerton	EGME 511 Advanced Mechanical Vibration	Mechanical Engineering	Spring 2009	Vibration with Control by Daniel Inman 2nd edition 	Sang June Oh
102	Non-degree	California state University Fullerton	EGME 431 Mechanical Vibration	Mechanical Engineering	Spring 2009	Vibration with Control by Daniel Inman 2nd edition 	Sang June Oh
101	MS Applied Mathematics	California state University Fullerton	EGEE 518 Digital Signal Processing I	Electrical Engineering	Fall 2008	DIGITAL SIGNAL PROCESSING by OPPENHEIM 	Mostafa Shiva

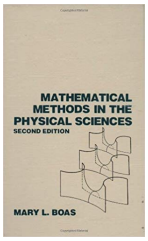
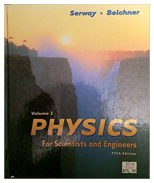
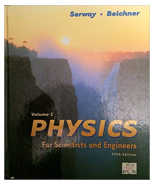
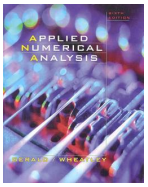
100	MS Applied Mathematics	California state University Fullerton	EGEE 443 Electronic Communication Systems	Electrical Engineering	Fall 2008	INTRODUCTION TO ANALOG and DIGITAL COMMUNICATIONS By HAYKIN 	Karim Hamidian
99	MS Applied Mathematics	California state University Fullerton	Math 597 B Finals Research	Applied Mathematics	Summer 2008		Angel R. Pineda
98	MS Applied Mathematics	California state University Fullerton	Math 597 A Finals Research	Applied Mathematics	Summer 2008		W. B. Gearhart
97	MS Applied Mathematics	California state University Fullerton	Math 504 Simulation Modeling and Analysis	Applied Mathematics	Spring 2008	Lecture notes by Dr Gearhart. Reference book: Introduction to probability models by Sheldon Ross	W. B. Gearhart
96	MS Applied Mathematics	California state University Fullerton	Math 502 Probability and Statistics	Applied Mathematics	Fall 2007	Mathematical statistics and data analysis 3rd edition. By John Rice 	Mori Jamshidian
95	MS Applied Mathematics	California state University Fullerton	Math 503 Mathematical Modeling	Applied Mathematics	Summer 2007	Applied Mathematics 3rd edition by David Logan 	W. B. Gearhart

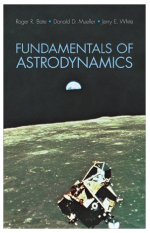
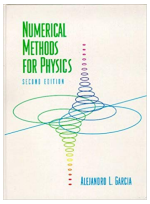
94	MS Applied Mathematics	California state University Fullerton	Math 499 independent studies	Applied Mathematics	Spring 2007		Angel R. Pineda
93	MS Applied Mathematics	California state University Fullerton	Math 501 Numerical Analysis and computation	Applied Mathematics	Spring 2007	Numerical Analysis 3rd edition. by David R. Kincaid, E. Ward Cheney 	C. H. Lee
92	MS Applied Mathematics	California state University Fullerton	Math 307 Linear Algebra	Applied Mathematics	Spring 2007	Linear Algebra and its Applications 4th edition. By Gilbert Strang 	Angel R. Pineda
91	MS Mechanical Engineering	University Of California, Irvine	CE 247 Structural Dynamics	Civil Engineering	Fall 2006	Structural Dynamics. 5th edition. Mario PAZ 	Maria Q. Feng
90	MS Mechanical Engineering	University Of California, Irvine	PHY 100 Computational Methods in Physics	Physics	Fall 2006	Instructor own Mathematica HandBook	Peter Taborek
89	MS Mechanical Engineering	University Of California, Irvine	MAE 299 research 1 unit	Mechanical Engineering	Spring 2006		A. Sideris

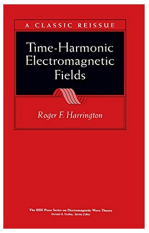
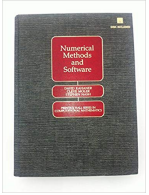
88	MS Mechanical Engineering	University Of California, Irvine	MAE 207 Computational methods	Mechanical Engineering	Spring 2006	Methods of computer modeling in engineering and the sciences. Vol 1. By S.N. Atluri 	S. N. Atluri
87	MS Mechanical Engineering	University Of California, Irvine	MAE 244 Theoretical Kinematics	Mechanical Engineering	Spring 2006	Introduction to theoretical kinematics, by J.M.McCarthy 	J.M. McCarthy
86	MS Mechanical Engineering	University Of California, Irvine	MAE 295 Solid mechanics	Mechanical Engineering	Winter 2006	Methods of computer modeling in engineering and the sciences. Vol 1. By S.N.Atluri 	S.N. Atluri
85	MS Mechanical Engineering	University Of California, Irvine	MAE 200B Engineering Analysis II	Mechanical Engineering	Winter 2006	Instructor notes	Feng Liu
84	MS Mechanical Engineering	University Of California, Irvine	MAE 270A Linear Systems 1	Mechanical Engineering	Fall 2005	Instructor notes	A. Sideris
83	MS Mechanical Engineering	University Of California, Irvine	MAE 200A Engineering Analysis 1	Mechanical Engineering	Fall 2005	Instructor notes	K.D. Mease

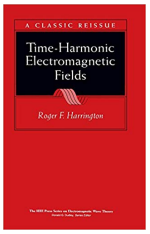
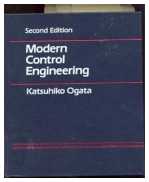
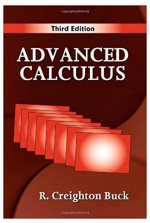
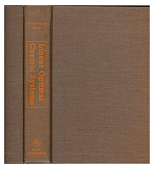
82	MS Mechanical Engineering	University Of California, Irvine	MAE 171 Digital Control	Mechanical Engineering	Spring 2005	Digital Control System Analysis and Design. 3rd edition. By Charles Phillips and H. Troy Nagle 	A. Sideris
81	MS Mechanical Engineering	University Of California, Irvine	MAE 170 Introduction to control systems	Mechanical Engineering	Winter 2005	Modern control engineering, Ogata, 4th edition 	James Bobrow
80	MS Mechanical Engineering	University Of California, Irvine	MAE 106 Mechanical Systems Lab	Mechanical Engineering	Winter 2005	Modern control engineering, Ogata, 4th edition 	David J. Reinkensmeyer
79	Non-degree	University Of California, Irvine	EECS 207A Advanced Image processing	Electrical Engineering	Fall 2004	Algorithms for Image Processing and computer vision, J.R.Parker 	Joerg Meyer

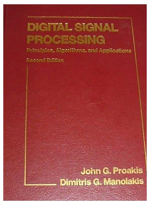
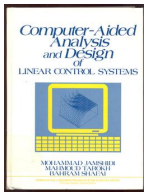
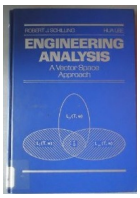
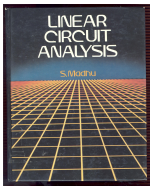
78	Non-degree	University Of California, Irvine	EECS 152A Digital Signal processing	Electrical Engineering	Fall 2004	DSP by Proakis and Manolakis, 3rd edition 	Glenn Healey
77	Non-degree	University Of California, Irvine	EECS 203A Digital Image processing	Electrical Engineering	Fall 2004	Digital image processing, 2nd edition by Gonzales and Woods 	Glenn Healey
76	Non-degree	University Of California, Irvine	MAE 91 Introduction To Thermodynamics	Mechanical Engineering	Summer 2004	FUNDAMENTALS THERMODYNAMICS by SONNTAG 	Hong Zhou
75	Non-degree	University Of California, Berkeley	MATH 121B Mathematical Tools for the Physical Sciences	Mathematics	Spring 2004	MATHEMATICAL METHODS IN PHYSICAL SCI, BOAS. 2nd edition 	Richard E. Borcherds

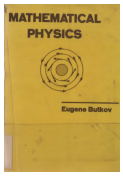
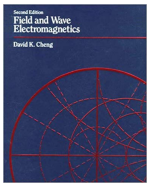
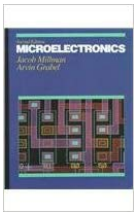
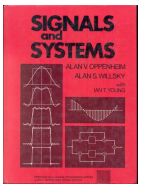
74	Non-degree	University Of California, Berkeley	MATH 121A Mathematical Tools for the Physical Sciences	Mathematics	Spring 2004	MATHEMATICAL METHODS IN PHYSICAL SCI, BOAS. 2nd edition 	Fraydoun Rezakhanlou
73	Non-degree	University Of California, Irvine	Physics 7LD Classical Physics 7D Lab	Physics	Summer 2003	Lab notes	Roger D. McWilliams
72	Non-degree	University Of California, Irvine	Physics 7D Classical Physics	Physics	Summer 2003	Physics. By Serway and Beichner 	Roger D. McWilliams
71	Non-degree	University Of California, Irvine	Physics 7E Classical Physics	Physics	Summer 2003	Physics. By Serway and Beichner 	Roger D. McWilliams
70	Non-degree	University Of California, Irvine	MAE 185 Applied Numerical Analysis	Mechanical Engineering	Spring 2003	Applied Numerical Analysis, C.F. Gerald and P.O. Wheatley, 5th Edition 	Maqsood Chaudhry

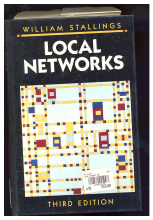
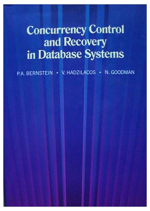
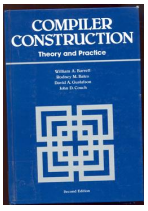
69	Non-degree	University Of California, Irvine	MAE 146 Astronautics	Mechanical Engineering	Spring 2003	Fundamentals of Astrodynamics, R.R. Bate, D.D. Mueller, J.E. White, Dover 	Melissa Orme
68	Non-degree	University Of California, Berkeley	Math 127 Mathematical and Computational Methods in Molecular Biology	Mathematics	Fall 2002	Biological sequence analysis: probabilistic models of proteins and nucleic acids By Richard Durbin 	Lior Pachter
67	Non-degree	California State University, San Jose	Physics 240 Computational Physics	Physics	Fall 2002	Numerical Methods for Physics, 2nd Edition. A.L.Garcia 	Alejandro Garcia
66	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3311 Software engineering 1	Electrical Engineering	Fall 1993	class notes	David R. Kaeli
65	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3341 Probability and stochastic processes	Electrical Engineering	Fall 1993	class notes	Vinay K. Ingle

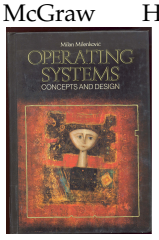
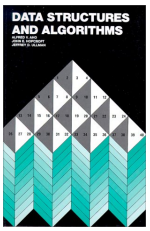
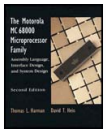
64	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3343 Electromagnetic theory II	Electrical Engineering	Fall 1993	Time-Harmonic Electromagnetic Fields, by Roger F. Harrington 	Charles J. Drane
63	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3325 Numerical software development methods	Electrical Engineering	March 1993	Numerical software, Nash,Moler and Kahaner 1989 	Wilfred J. Remillard
62	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3386 Characteristics and models of solid state devices II	Electrical Engineering	January 1993	semiconductor Device Physics and Technology, by S.M. Sze, John wiley and Sons, 1985 	Nagappan K. Annamalai
61	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3385 Characteristics and models of solid state devices I	Electrical Engineering	Fall 1992	semiconductor Device Physics and Technology, by S.M. Sze, John wiley and Sons, 1985 	Nagappan K. Annamalai

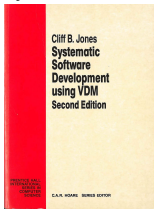
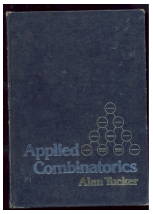
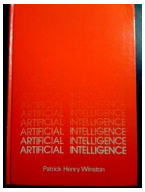
60	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3342 Electromagnetic theory I	Electrical Engineering	Fall 1992	Time-Harmonic Electromagnetic Fields, by Roger F. Harrington 	Charles J. Drane
59	MS Electrical Engineering	University of Massachusetts, Amherst, MA	ECE 580 Feedback control systems	Electrical Engineering	Summer 1992 (transfer course)	Modern Control Engineering, by K. Ogata, 2nd edition, Prentice Hall, 1990 	Wei-Bo Gong
58	Non-degree	University of Massachusetts, Lowell, MA	MATH 92.306 Real Analysis II	Mathematics	Summer 1992	Advanced calculus by R. Creighton Buck 	James Graham-Eagle
57	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3371 Linear Optimal Control Theory I	Electrical Engineering	March 1992	Linear Optimal Control Systems. by Kwakwenaak and Sivan 	Gilead Tadmor

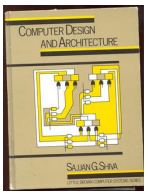
56	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3321 Digital Signal Processing	Electrical Engineering	March 1992	Digital Signal Processing by Proakis, Macmillan and Manolakis 	Ram Raghavan
55	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3221 Linear Systems Analysis	Electrical Engineering	January 1992	Computer Aided Analysis and Design of Linear control systems. B. Shafi. Prentice Hall 	Bahram Shafai
54	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3211 Mathematical Methods in EE I	Electrical Engineering	Fall 1991	Engineering Analysis , Vector Space approach by Robert J. Schilling , Hua Lee. Finite Dimensional Vector Space, by R.Halmos 	Gilead Tadmor
53	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3100 Introduction to circuits and Systems I	Electrical Engineering	Fall 1991	Linear Circuits Analysis by S. Madhu 	William J. Bintz

52	MS Electrical Engineering	University of Massachusetts, Amherst, MA	MATH 697P Mathematical Methods For Science And Engineering I	Mathematics	Summer 1991 (Transfer course)	Mathematical Physics, Eugene Butkov, Addison Wesley 	Donald F St. Mary
51	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3102 Introduction to Electromagnetic Field Theory I	Electrical Engineering	March 1991	Field And Wave Electromagnetics, by David K. Cheng 	Charles J. Drane
50	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3101 Micro-Electronics I	Electrical Engineering	January 1991	Microelectronics by Jacob Millman, Arvin Grabelg 	Bill Bintz
49	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3108 Signals and Systems	Electrical Engineering	January 1991	Signals And Systems By Alan V. Oppenheim, Alan S. Willsky 	Lisa Shatz

48	Non-degree	Boston University, Boston, MA	CSE 635 Local Area Networks: Design and Implementation	Computer Science	Fall 1990	Local Networks, Second Edition, by Stalling, William 	Mikhail Orlov
47	Non-degree	University Of Washington, Seattle, WA	CSE 524 Parallel Algorithms	Computer Science	March 1990	class notes	Richard Anderson
46	Non-degree	University Of California, Santa Barbara	CSE 274 Advanced Topics in Data Base	Computer Science	March 1989	Concurrency Control And Recovery in Data Base Systems. by Bernstein, Hadzilacos, Goodman. Addison Wesley 	Divyakant Agrawal
45	MS Computer Science	Oakland University, Michigan	CSE 565 Compiler Construction	Computer Science	Fall 1988	Compiler construction: Theory and practice William A. Barrett, Rodney M. Bates, David A. Gustafson, John D. Couch, Science Research. 1986 	Ronald J. Srodawa

44	MS Computer Science	Oakland University, Michigan	CSE 535 Programming languages design	Computer Science	Fall 1988	Programming Languages: Design and Implementation, Terrence W. Pratt, Marvin V. Zelkowitz 	Ronald J. Srodawa
43	MS Computer Science	Oakland University, Michigan	CSE 550 Operating Systems	Computer Science	March 1988	Milenkovic, Operating Systems, McGraw Hillz 	David E. Boddy
42	MS Computer Science	Oakland University, Michigan	CSE 542 Algorithms	Computer Science	March 1988	Data structures and Algorithms. by Aho,Hopcraft and Ullman 	James H. McKay
41	MS Computer Science	Oakland University, Michigan	CSE 502 Hardware Logic design	Computer Science	January 1988	Motorola MC6800 Microprocessor family assembly language, Interface design and system design 	Subramaniam Ganesan

40	MS Computer Science	Oakland University, Michigan	CSE 504 Discrete structures and Foundation of computer science	Computer Science	January 1988	A.Doerr, K.Levasseur. by Applied Discrete Structures for computer science, SRA 1985 	Thomas G. Windeknecht
39	MS Computer Science	Oakland University, Michigan	CSE 538 Programming methodology	Computer Science	Fall 1987	Systematic Software development using VDM. by C.B.Jones 	Janusz Laski
38	MS Computer Science	Oakland University, Michigan	APM 563 Discrete methods	Mathematics	Fall 1987	Albert Tucker, Applied Combinatorals 	
37	MS Computer Science	Oakland University, Michigan	CSE 516 Artificial Intelligence	Computer Science	Summer 1987	AI by Patrick Henry Winston 	

36	Non-degree	Wayne State University, Detroit, Michigan	CSE 531 Computer Organization	Electrical Engineering	March 1987	Computer Design and Architecture by Sajjan G. Shirva 	Aridam Guptaray
35	Non-degree	Wayne State University, Detroit, Michigan	CSE 562 Mini-Micro Computers	Electrical Engineering	March 1987	J.f.Wakerly microcomputer Architecture and Programming, John Wileya 	Harpreet Singh
34	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 512b Special Topics in Hydrology	Civil Engineering	Summer 1983		
33	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 561 construction planning and scheduling	Civil Engineering	Spring 1983		
32	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 599 special topics	Civil Engineering	Spring 1983		
31	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 572 Construction labor management	Civil Engineering	Spring 1983		
30	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 506 Heavy Construction Estimating	Civil Engineering	Spring 1983		

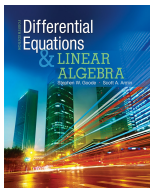
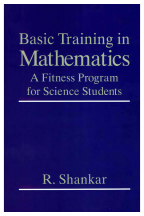
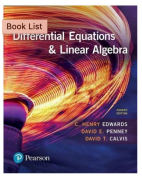
29	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 462 Construction methods and Equipment	Civil Engineering	Fall 1982		
28	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 501 Functions of the constructor	Civil Engineering	Fall 1982		
27	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 508 Mechanics of Solids II	Civil Engineering	Summer 1982		
26	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 525b Engineering Analysis	Civil Engineering	Summer 1982		
25	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Principles of building construction II	Civil Engineering	1980		
24	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Industrial engineering II	Civil Engineering	1980		
23	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Advanced theory/Design of structures	Civil Engineering	1980		
22	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Structural concrete and steel	Civil Engineering	1980		
21	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Advanced soil mechanics	Civil Engineering	1980		
20	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Group design project	Civil Engineering	1980		

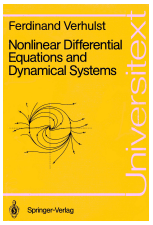
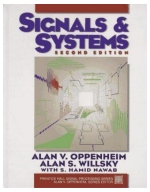
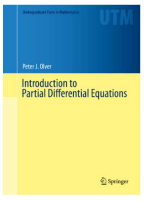
19	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Advanced Mathematics	Civil Engineering	1979		
18	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Numerical methods and Statistics	Civil Engineering	1979		
17	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Principles of building construction I	Civil Engineering	1979		
16	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Principles of building services I	Civil Engineering	1979		
15	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Industrial Engineering I	Civil Engineering	1979		
14	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. FORTRAN programming	Civil Engineering	1979		
13	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Theory and design of structures	Civil Engineering	1979		
12	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Structural concrete	Civil Engineering	1979		
11	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Soil mechanics	Civil Engineering	1979		
10	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Environmental science	Civil Engineering	1978		

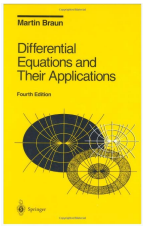
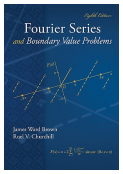
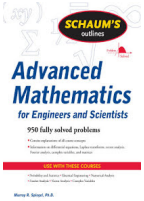
9	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Environmental science	Civil Engineering	1978		
8	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Principles of mechanical Engineering	Civil Engineering	1978		
7	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Construction materials	Civil Engineering	1978		
6	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Graphics communication/Design	Civil Engineering	1978		
5	GCE A-level	Stockton Billingham technical College, England	Physics	Physics	1977		
4	GCE A-level	Stockton Billingham technical College, England	Mathematics, University of London Board	Mathematics	1977		
3	GCE A-level	Stockton Billingham technical College, England	Further Mathematics University of London Board	Mathematics	1977		
2	GCE A-level	Stockton Billingham technical College, England	Pure Mathematics Associated examination Board	Mathematics	1977		
1	GCE A-level	Stockton Billingham technical College, England	Applied Mathematics Associated examination Board	Mathematics	1977		

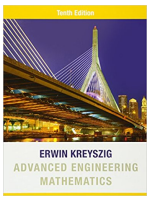
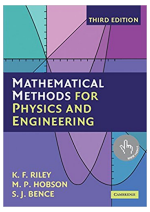
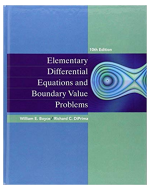
2 Credit courses sorted by degree

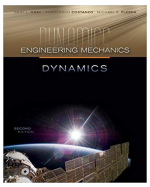
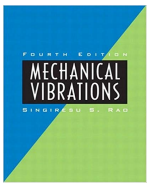
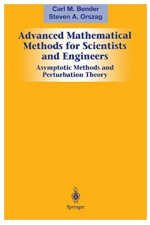
2.1 Credit courses taken as a non-degree student (50)

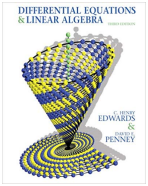
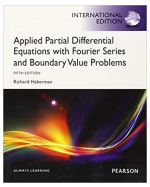
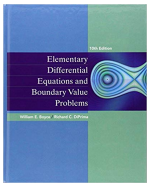
No.	degree	university	course name	department	date	text book	instructor
50	Non-degree	Normandale college, Bloomington, Minnesota	Math 2520, Differential Equations and Linear Algebra meeting: (online) discussion: N/A finals: TBA	Mathematics	Summer 2021	Differential Equations and Linear Algebra by Goode and Annin, 4th edition, published by Pearson 	Ghidei Zedingle
49	Non-degree	University of Minnesota, Twin Cities	PHYSICS 3041, Mathematical Methods for Physicists meeting: M W F 1:25-2:15 pm (online) discussion: N/A finals: TBA	Physics	Spring 2021	Basic Training in Mathematics: A Fitness Program for Science Students by R. Shankar 	Yong-Zhong Qian
48	Non-degree	University of Minnesota, Twin Cities	Math 2243, Linear algebra and differential equations meeting: TTh 6:00 PM - 8:05 PM (online) discussion: N/A finals: December 17th from 12:00 PM - 3:00 PM	Mathematics	Fall 2020	Differential Equations and Linear Algebra (4th edition) by Edwards and Penny 	Lillian Webster

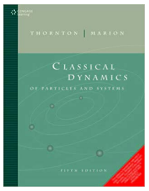
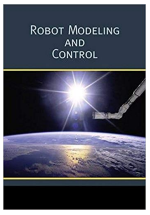
47	Non-degree	University of Minnesota, Twin Cities	MATH 5525, Introduction to Ordinary Differential Equations meeting: MoWeFr 11:15AM - 12:05PM, Vincent Hall 113 discussion: N/A finals: 1:30 to 3:30 p.m., Tuesday, May 12	Mathematics	Spring 2020	Nonlinear Differential Equations and Dynamical Systems by F.Verhulst, Springer. 	M. Carme Calderer
46	Non-degree	University of Minnesota, Twin Cities	EE 3015, Signals and Systems meeting: MoWeFr 10:10AM - 11:00AM, Keller Hall 3-125 discussion: We 12:20PM - 1:10PM, Vincent Hall 213 finals: 1:30 to 3:30 p.m., Saturday, May 9	Electrical Engineering	Spring 2020	Signals and Systems 2nd ed. Oppenheim, Willsky and Nawab 	A. B (Bob) Mahmoodi
45	Non-degree	University of Minnesota, Twin Cities	MATH 5587, Elementary Partial Differential Equations I meeting: Tu Thu 4:45-6:00 PM, Amundson Hall 156 discussion: N/A finals: Tuesday Dec 10,2019 4:45-6:00pm, Amundson Hall 156	Mathematics	Fall 2019	Introduction to Partial Differential Equations by Peter Olver, ISBN 9783319020983 	Svitlana Mayboroda

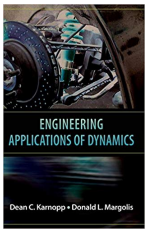
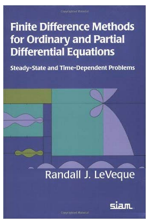
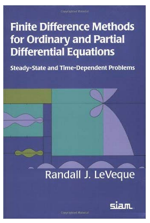
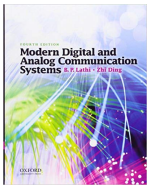
44	Non-degree	University of Minnesota, Twin Cities	MATH 4512, DIFFERENTIAL EQUATIONS WITH APPLICATIONS meeting: MWF 10:10-11:00am, Vincent Hall 6 discussion: N/A finals: Dec 18,2019 8:00-10:00am, Vincent Hall 6	Mathematics	Fall 2019	Martin Braun, Differential Equations and their Applications, Springer (4th edition), 1993 	Helena Zarin
43	Non-degree	University of Minnesota, Twin Cities	MATH 4567 Applied Fourier Analysis meeting: Mo We Fr 3:35PM - 4:25PM, Vincent Hall 2 discussion: N/A	Mathematics	Spring 2019	Fourier Series and Boundary Value Problems, 8th edition by Brown, ISBN: 9780078035975 	Jiaping Wang
42	Non-degree	University of Minnesota, Twin Cities	PHYSICS 5041 Mathematical Methods for Physics meeting: Mo We 1:25PM - 2:15PM, Tate Hall 110, Fr 1:25PM - 3:20PM Tate Hall B65 discussion: N/A	Physics	Spring 2019	Schaums Outline Of Advanced Math For Engineers and Scientists, by Spiegel. ISBN: 9780071635400 	Joseph Kapusta

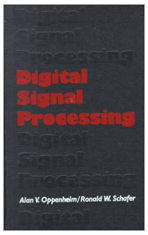
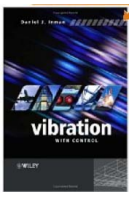
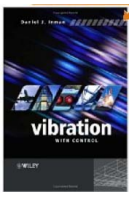
41	Non-degree	University Of Wisconsin, Milwaukee	Math 601 Advanced Engineering Mathematics I meeting: TuTh 9:30 AM-10:45 AM, Physics 152 discussion: N/A	Mathematics	Fall 2018	Advanced Engineering Mathematics, 10th Edition by Erwin Kreyszig 	Istvan Lauko
40	Non-degree	University Of Wisconsin, Milwaukee	Physics 501, Special Topics: Mathematical Models of Physical Problems I meeting: MW 12:30 PM-1:45 PM, KEN 1132 discussion: N/A	Physics	Fall 2018	Mathematical Methods for Physics and Engineering: A Comprehensive Guide, by K. F. Riley , M. P. Hobson , S. J. Bence, 3rd edition. 	Daniel Agterberg
39	Non-degree	University Of Wisconsin, Milwaukee	Math 322 Introduction to Partial differential equations meeting: TuTh 2:00PM - 3:15PM EMS E160 discussion: N/A finals: Thursday May 17, 2018 10:00 AM-12:00 PM	Mathematics	Spring 2018	Elementary Differential Equations and Boundary Value Problems, 10th Edition. William E. Boyce, 200e Richard C. DiPrima 	Hans Volkmer

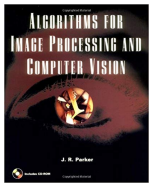
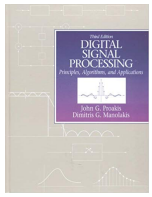
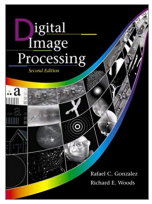
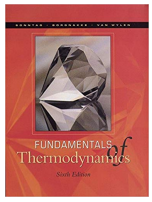
38	Non-degree	University Of Wisconsin, Madison	ME 240 Dynamics meeting: TuTh 1:20PM - 2:10PM ENGR HALL 1800 discussion: WeFr 9:55AM - 10:45AM, Wang,Shu 2108 MECH finals: 12/18/2017 10:05AM 12:05PM	Mechanical Engineering	Fall 2017	Dynamics ISBN 9780077891145 by Gray, Costanzo, Plesha MCGRAW HILL, second edition 	Sonny Aaron Nimityongskul
37	Non-degree	University Of Wisconsin, Madison	ME 440 Intermediate Vibrations meeting: TuTh 11:00AM - 12:15PM MECH ENGR 2108 discussion: N/A finals: 12/16/2017 2:45PM 4:45PM	Mechanical Engineering	Fall 2017	S. S. Rao Mechanical vibration 4th edition 	Andrew Mikkelson
36	Non-degree	University Of Wisconsin, Madison	EP 548 Engineering Analysis II meeting: TuTh 11:00AM - 12:15PM VAN VLECK B341 discussion: N/A finals: 05/11/2017 10:05AM 12:05PM	Engineering Physics	Spring 2017	Advanced Mathematical Methods for Scientists and Engineers I, Bender and Orszag. 	Leslie Smith

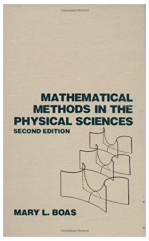
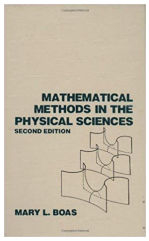
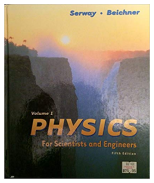
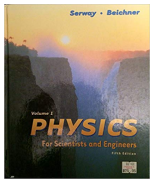
35	Non-degree	University Of Wisconsin, Madison	Math 320 Linear algebra and differential equations meeting: TuTh 9:30AM - 10:45AM VAN VLECK B239 discussion: Mo 8:50AM - 9:40AM VAN VLECK B115 finals: 05/07/2017 7:25PM 9:25PM	Mathematics	Spring 2017	Differential Equations and Linear Algebra by Edwards and Penney 	Leslie Smith
34	Non-degree	University Of Wisconsin, Madison	Math 322 Applied Mathematical Analysis meeting: MWF, 12:05-12:55 Van Hise 115 discussion: N/A finals: Sat dec 17, 5:05 PM to 7:05 PM.	Mathematics	Fall 2016	Applied Partial Differential Equations with Fourier Series and Boundary Value Problems, 5th ed. Richard Haberman 	Leslie Smith
33	Non-degree	University Of Wisconsin, Madison	Math 319: Techniques in Ordinary Differential Equations meeting: MoWeFr 2:25PM - 3:15PM, VAN VLECK B239 finals: Dec 22, 2016 12:25 PM-2:225 PM	Mathematics	Fall 2016	Elementary Differential Equations, 9th ed by William E. Boyce, Richard C. DiPrima 	Minh-Binh Tran
32	Non-degree	University Of Wisconsin, Madison	ECE 719, Optimal systems meeting: TuTh 9:30AM - 10:45AM, ENGR HALL 3418 finals: May 5 2016, 9:30 AM	Electrical Engineering	Spring 2016	Class notes	B. R. Barmish

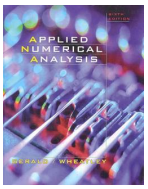
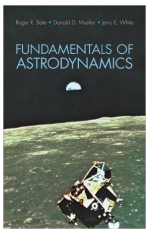
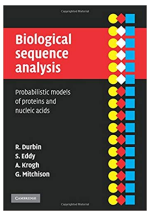
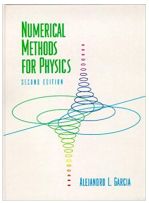
31	Non-degree	University Of Wisconsin, Madison	EMA 471 Intermediate Problem Solving for Engineers meeting: TuTh 8:00AM - 9:15AM ENGR HALL 2261 finals: 05/12/2016 7:45AM 9:45AM	Engineering Mechanics	Spring 2016	Class notes	Robert J. Witt
30	Non-degree	University Of Wisconsin, Madison	ECE 332, feedback control meeting: TuTh 9:30AM - 10:45AM, ENGR HALL 3418 finals: 12/10/2015, 9:30 AM	Electrical Engineering	Fall 2015	Class notes	B. R. Barmish
29	Non-degree	University Of Wisconsin, Madison	Physics 311 (Mechanics) meeting: MWF 11:00AM - 11:50AM, VAN HISE 494 discussion: Th 1:20PM - 2:10PM CHAMBERLIN 2108 finals: 12/17/2015 5:05PM	Physics	Fall 2015	S.T. Thornton, J.B. Marion, Classical Dynamics of Particles and Systems, 5th Edition, Brooks/Cole, 2004, ISBN 0534408966 	Stefan Westerhoff
28	Non-degree	University Of Wisconsin, Madison	ECE/ME 739, Introduction to Robotics	Electrical Engineering	Spring 2015	Robot Modeling and Control, by Spong, Hutchinson, and Vidyasagar ISBN ISBN 0-471-64990-2 	Michael Zinn

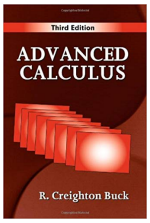
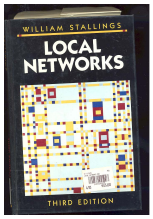
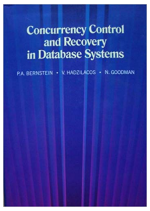
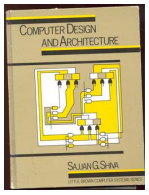
27	Non-degree	University of California, Davis	EME 121 Engineering applications of dynamics	Mechanical Engineering	Spring 2011	Engineering applications of dynamics by Karnopp and Margolis 	Donald Margolis
26	Non-degree	University of California, Davis	Math 228B Numerical Solution of Differential Equations	Mathematics	Winter 2011	Finite Difference Methods for Ordinary and Partial Differential Equations by Randall J. LeVeque 	Robert Guy
25	Non-degree	University of California, Davis	Math 228A Numerical Solution of Differential Equations	Mathematics	Fall 2010	Finite Difference Methods for Ordinary and Partial Differential Equations by Randall J. LeVeque 	Robert Guy
24	Non-degree	Cal Poly Pomona, California	ECE 405 Communication systems	Electrical Engineering	Summer session I 2010	Modern digital and analog communication systems by Lathi 	James Kang

23	Non-degree	California state University Fullerton	EGEE 420 Digital filters	Electrical Engineering	Spring 2010	DIGITAL SIGNAL PROCESSING by OPPENHEIM 	Mostafa Shiva
22	Non-degree	California state University Fullerton	EGEE 409 Linear systems and signals	Electrical Engineering	Spring 2010	Signals and linear systems by Gabel and Roberts, 3rd ed 	Mohinder S. Grewal
21	Non-degree	California state University Fullerton	EGME 511 Advanced Mechanical Vibration	Mechanical Engineering	Spring 2009	Vibration with Control by Daniel Inman 2nd edition 	Sang June Oh
20	Non-degree	California state University Fullerton	EGME 431 Mechanical Vibration	Mechanical Engineering	Spring 2009	Vibration with Control by Daniel Inman 2nd edition 	Sang June Oh

19	Non-degree	University Of California, Irvine	EECS 207A Advanced Image processing	Electrical Engineering	Fall 2004	Algorithms for Image Processing and computer vision, J.R.Parker 	Joerg Meyer
18	Non-degree	University Of California, Irvine	EECS 152A Digital Signal processing	Electrical Engineering	Fall 2004	DSP by Proakis and Manolakis, 3rd edition 	Glenn Healey
17	Non-degree	University Of California, Irvine	EECS 203A Digital Image processing	Electrical Engineering	Fall 2004	Digital image processing, 2nd edition by Gonzales and Woods 	Glenn Healey
16	Non-degree	University Of California, Irvine	MAE 91 Introduction To Thermodynamics	Mechanical Engineering	Summer 2004	FUNDAMENTALS THERMODYNAMICS by SONNTAG 	Hong Zhou

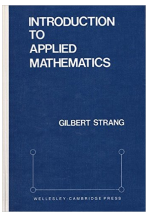
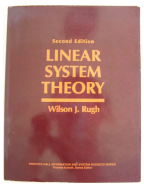
15	Non-degree	University Of California, Berkeley	MATH 121B Mathematical Tools for the Physical Sciences	Mathematics	Spring 2004	MATHEMATICAL METHODS IN PHYSICAL SCI, BOAS. 2nd edition 	Richard E. Borcherds
14	Non-degree	University Of California, Berkeley	MATH 121A Mathematical Tools for the Physical Sciences	Mathematics	Spring 2004	MATHEMATICAL METHODS IN PHYSICAL SCI, BOAS. 2nd edition 	Fraydoun Rezakhanlou
13	Non-degree	University Of California, Irvine	Physics 7LD Classical Physics 7D Lab	Physics	Summer 2003	Lab notes	Roger D. McWilliams
12	Non-degree	University Of California, Irvine	Physics 7D Classical Physics	Physics	Summer 2003	Physics. By Serway and Beichner 	Roger D. McWilliams
11	Non-degree	University Of California, Irvine	Physics 7E Classical Physics	Physics	Summer 2003	Physics. By Serway and Beichner 	Roger D. McWilliams

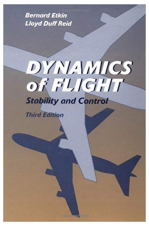
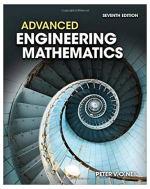
10	Non-degree	University Of California, Irvine	MAE 185 Applied Numerical Analysis	Mechanical Engineering	Spring 2003	Applied Numerical Analysis, C.F. Gerald and P.O. Wheatley, 5th Edition 	Maqsood Chaudhry
9	Non-degree	University Of California, Irvine	MAE 146 Astronautics	Mechanical Engineering	Spring 2003	Fundamentals of Astrodynamics, R.R. Bate, D.D. Mueller, J.E. White, Dover 	Melissa Orme
8	Non-degree	University Of California, Berkeley	Math 127 Mathematical and Computational Methods in Molecular Biology	Mathematics	Fall 2002	Biological sequence analysis: probabilistic models of proteins and nucleic acids By Richard Durbin 	Lior Pachter
7	Non-degree	California State University, San Jose	Physics 240 Computational Physics	Physics	Fall 2002	Numerical Methods for Physics, 2nd Edition. A.L.Garcia 	Alejandro Garcia

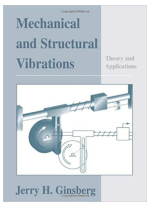
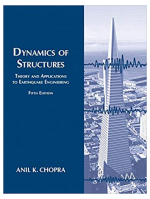
6	Non-degree	University of Massachusetts, Lowell, MA	MATH 92.306 Real Analysis II	Mathematics	Summer 1992	Advanced calculus by R. Creighton Buck 	James Graham-Eagle
5	Non-degree	Boston University, Boston, MA	CSE 635 Local Area Networks: Design and Implementation	Computer Science	Fall 1990	Local Networks, Second Edition, by Stalling, William 	Mikhail Orlov
4	Non-degree	University Of Washington, Seattle, WA	CSE 524 Parallel Algorithms	Computer Science	March 1990	class notes	Richard Anderson
3	Non-degree	University Of California, Santa Barbara	CSE 274 Advanced Topics in Data Base	Computer Science	March 1989	Concurrency Control And Recovery in Data Base Systems. by Bernstein, Hadzilacos, Goodman. Addison Wesley 	Divyakant Agrawal
2	Non-degree	Wayne State University, Detroit, Michigan	CSE 531 Computer Organization	Electrical Engineering	March 1987	Computer Design and Architecture by Sajjan G. Shirva 	Aridam Guptaray

1	Non-degree	Wayne State University, Detroit, Michigan	CSE 562 Mini-Micro Computers	Electrical Engineering	March 1987	J.f.Wakerly microcomputer Architecture and Programming, John Wileya 	Harpreet Singh

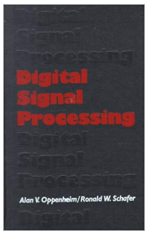
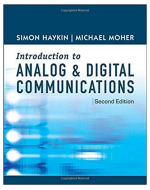
2.2 MS Engineering Mechanics (8)

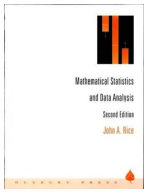
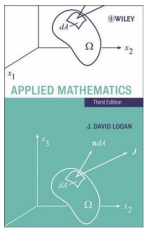
No.	degree	university	course name	department	date	text book	instructor
8	MS Engineering Mechanics	University Of Wisconsin, Madison	Math 703 methods of applied mathematics I meeting: Mu,Thu 11:00AM - 12:15PM VAN VLECK B139	Mathematics	Fall 2014	Introduction to Applied Mathematics, ISBN 0961408804 by Gilbert Strang 	Gheorghe Craciun
7	MS Engineering Mechanics	University Of Wisconsin, Madison	ECE 717 Linear systems meeting: TuTh 2:30PM - 3:45PM ENG HALL 3444 finals: 12/18/2014 10:05AM	Electrical Engineering	Fall 2014	Linear System Theory (second edition) ISBN 0134412052 by W.J. Rugh 	B. R. Barmish

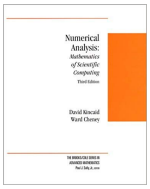
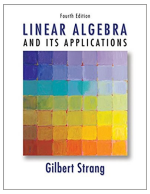
6	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 550 astrodynamics meeting: TuTh 2:30PM - 3:45PM ENGR HALL 2265 finals: 05/15/2014 12:25PM 2:25PM	Engineering Mechanics	Spring 2014	class notes	Suzannah Sandrik
5	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 523 flight dynamics and control meeting: Tue, Thu, 11:00AM - 12:00PM finals: Tu,Th 9:30AM - 10:45AM ENGR HALL 1209	Engineering Mechanics	Spring 2014	Dynamics of flight, stability and control, 3rd ed Wiley, Etkin B. and Reid L.D. 1996 	Riccardo Bonazza
4	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 542 Advanced Dynamics meeting: M W F 9:55AM - 10:45AM ENGR HALL 2255 finals: 12/19/2013 12:25PM 2:25PM	Engineering Mechanics	Fall 2013	Class notes	Daniel C. Kammer
3	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 547 Engineering analysis 1 meeting: M W F 11:00AM - 11:50AM ENGR HALL 2305 finals: 12/20/2013 10:05AM 12:05PM	Engineering Mechanics	Fall 2013	Advanced Engineering Mathematics, Peter V. ONeil 6th ed 	Douglass L. Henderson

2	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 545 Engineering Vibration	Engineering Mechanics	Spring 2013	Mechanical and Structural Vibration by Ginsberg 	Matt Allen
1	MS Engineering Mechanics	University Of Wisconsin, Madison	CEE 744 Structural Dynamics and Earthquake Engineering	Civil Engineering	Spring 2013	Dynamics of Structures, Anil K. Chopra, Prentice-Hall 	Michael Oliva

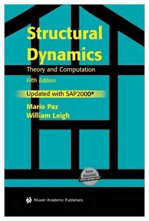
2.3 MS Applied Mathematics (10)

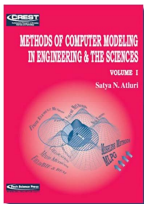
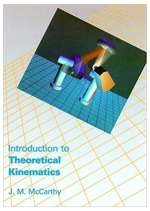
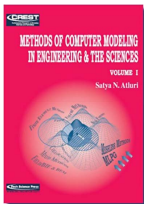
No.	degree	university	course name	department	date	text book	instructor
10	MS Applied Mathematics	California state University Fullerton	EGEE 518 Digital Signal Processing I	Electrical Engineering	Fall 2008	DIGITAL SIGNAL PROCESSING by OPPENHEIM 	Mostafa Shiva
9	MS Applied Mathematics	California state University Fullerton	EGEE 443 Electronic Communication Systems	Electrical Engineering	Fall 2008	INTRODUCTION TO ANALOG and DIGITAL COMMUNICATIONS By HAYKIN 	Karim Hamidian

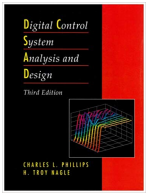
8	MS Applied Mathematics	California state University Fullerton	Math 597 B Finals Research	Applied Mathematics	Summer 2008		Angel R. Pineda
7	MS Applied Mathematics	California state University Fullerton	Math 597 A Finals Research	Applied Mathematics	Summer 2008		W. B. Gearhart
6	MS Applied Mathematics	California state University Fullerton	Math 504 Simulation Modeling and Analysis	Applied Mathematics	Spring 2008	Lecture notes by Dr Gearhart. Reference book: Introduction to probability models by Sheldon Ross	W. B. Gearhart
5	MS Applied Mathematics	California state University Fullerton	Math 502 Probability and Statistics	Applied Mathematics	Fall 2007	Mathematical statistics and data analysis 3rd edition. By John Rice 	Mori Jamshidian
4	MS Applied Mathematics	California state University Fullerton	Math 503 Mathematical Modeling	Applied Mathematics	Summer 2007	Applied Mathematics 3rd edition by David Logan 	W. B. Gearhart
3	MS Applied Mathematics	California state University Fullerton	Math 499 independent studies	Applied Mathematics	Spring 2007		Angel R. Pineda

2	MS Applied Mathematics	California state University Fullerton	Math 501 Numerical Analysis and computation	Applied Mathematics	Spring 2007	Numerical Analysis 3rd edition. by David R. Kincaid, E. Ward Cheney 	C. H. Lee
1	MS Applied Mathematics	California state University Fullerton	Math 307 Linear Algebra	Applied Mathematics	Spring 2007	Linear Algebra and its Applications 4th edition. By Gilbert Strang 	Angel R. Pineda

2.4 MS Mechanical Engineering (12)

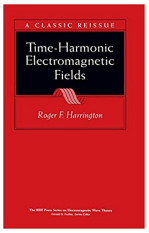
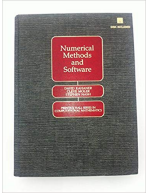
No.	degree	university	course name	department	date	text book	instructor
12	MS Mechanical Engineering	University Of California, Irvine	CE 247 Structural Dynamics	Civil Engineering	Fall 2006	Structural Dynamics. 5th edition. Mario PAZ 	Maria Q. Feng
11	MS Mechanical Engineering	University Of California, Irvine	PHY 100 Computational Methods in Physics	Physics	Fall 2006	Instructor own Mathematica HandBook	Peter Taborek
10	MS Mechanical Engineering	University Of California, Irvine	MAE 299 research 1 unit	Mechanical Engineering	Spring 2006		A. Sideris

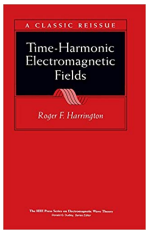
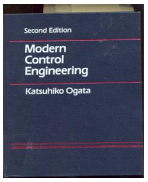
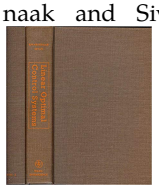
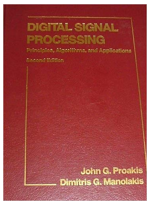
9	MS Mechanical Engineering	University Of California, Irvine	MAE 207 Computational methods	Mechanical Engineering	Spring 2006	Methods of computer modeling in engineering and the sciences. Vol 1. By S.N. Atluri 	S. N. Atluri
8	MS Mechanical Engineering	University Of California, Irvine	MAE 244 Theoretical Kinematics	Mechanical Engineering	Spring 2006	Introduction to theoretical kinematics, by J.M.McCarthy 	J.M. McCarthy
7	MS Mechanical Engineering	University Of California, Irvine	MAE 295 Solid mechanics	Mechanical Engineering	Winter 2006	Methods of computer modeling in engineering and the sciences. Vol 1. By S.N.Atluri 	S.N. Atluri
6	MS Mechanical Engineering	University Of California, Irvine	MAE 200B Engineering Analysis II	Mechanical Engineering	Winter 2006	Instructor notes	Feng Liu
5	MS Mechanical Engineering	University Of California, Irvine	MAE 270A Linear Systems 1	Mechanical Engineering	Fall 2005	Instructor notes	A. Sideris
4	MS Mechanical Engineering	University Of California, Irvine	MAE 200A Engineering Analysis 1	Mechanical Engineering	Fall 2005	Instructor notes	K.D. Mease

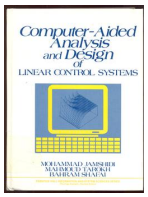
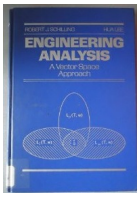
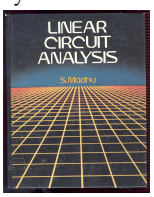
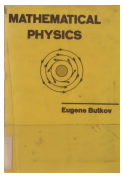
3	MS Mechanical Engineering	University Of California, Irvine	MAE 171 Digital Control	Mechanical Engineering	Spring 2005	Digital Control System Analysis and Design. 3rd edition. By Charles Phillips and H. Troy Nagle 	A. Sideris
2	MS Mechanical Engineering	University Of California, Irvine	MAE 170 Introduction to control systems	Mechanical Engineering	Winter 2005	Modern control engineering, Ogata, 4th edition 	James Bobrow
1	MS Mechanical Engineering	University Of California, Irvine	MAE 106 Mechanical Systems Lab	Mechanical Engineering	Winter 2005	Modern control engineering, Ogata, 4th edition 	David J. Reinkensmeyer

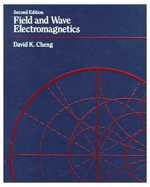
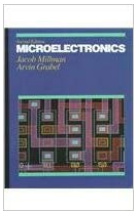
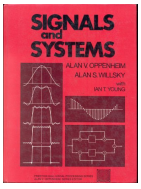
2.5 MS Electrical Engineering (17)

No.	degree	university	course name	department	date	text book	instructor
17	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3311 Software engineering 1	Electrical Engineering	Fall 1993	class notes	David R. Kaeli
16	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3341 Probability and stochastic processes	Electrical Engineering	Fall 1993	class notes	Vinay K. Ingle

15	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3343 Electromagnetic theory II	Electrical Engineering	Fall 1993	Time-Harmonic Electromagnetic Fields, by Roger F. Harrington 	Charles J. Drane
14	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3325 Numerical software development methods	Electrical Engineering	March 1993	Numerical software, Nash,Moler and Kahaner 1989 	Wilfred J. Remillard
13	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3386 Characteristics and models of solid state devices II	Electrical Engineering	January 1993	semiconductor Device Physics and Technology, by S.M. Sze, John wiley and Sons, 1985 	Nagappan K. Annamalai
12	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3385 Characteristics and models of solid state devices I	Electrical Engineering	Fall 1992	semiconductor Device Physics and Technology, by S.M. Sze, John wiley and Sons, 1985 	Nagappan K. Annamalai

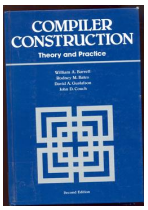
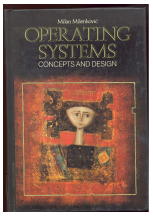
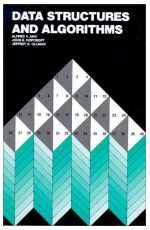
11	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3342 Electromagnetic theory I	Electrical Engineering	Fall 1992	Time-Harmonic Electromagnetic Fields, by Roger F. Harrington 	Charles J. Drane
10	MS Electrical Engineering	University of Massachusetts, Amherst, MA	ECE 580 Feedback control systems	Electrical Engineering	Summer 1992 (transfer course)	Modern Control Engineering, by K. Ogata, 2nd edition, Prentice Hall, 1990 	Wei-Bo Gong
9	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3371 Linear Optimal Control Theory I	Electrical Engineering	March 1992	Linear Optimal Control Systems. by Kwakwenaak and Sivan 	Gilead Tadmor
8	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3321 Digital Signal Processing	Electrical Engineering	March 1992	Digital Signal Processing by Proakis, Macmillan and Manolakis 	Ram Raghavan

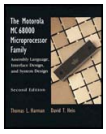
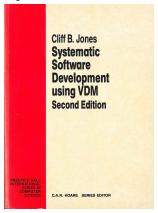
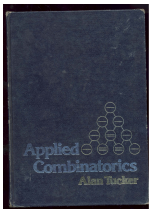
7	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3221 Linear Systems Analysis	Electrical Engineering	January 1992	Computer Aided Analysis and Design of Linear control systems. B. Shafi. Prentice Hall 	Bahram Shafai
6	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3211 Mathematical Methods in EE I	Electrical Engineering	Fall 1991	Engineering Analysis , Vector Space approach by Robert J. Schilling , Hua Lee. Finite Dimensional Vector Space, by R.Halmos 	Gilead Tadmor
5	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3100 Introduction to circuits and Systems I	Electrical Engineering	Fall 1991	Linear Circuits Analysis by S. Madhu 	William J. Bintz
4	MS Electrical Engineering	University of Massachusetts, Amherst, MA	MATH 697P Mathematical Methods For Science And Engineering I	Mathematics	Summer 1991 (Transfer course)	Mathematical Physics, Eugene Butkov, Addison Wesley 	Donald F St. Mary

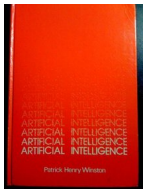
3	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3102 Introduction to Electromagnetic Field Theory I	Electrical Engineering	March 1991	Field And Wave Electromagnetics, by David K. Cheng 	Charles J. Drane
2	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3101 Micro-Electronics I	Electrical Engineering	January 1991	Microelectronics by Jacob Millman, Arvin Grabelg 	Bill Bintz
1	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3108 Signals and Systems	Electrical Engineering	January 1991	Signals And Systems By Alan V. Oppenheim, Alan S. Willsky 	Lisa Shatz

2.6 MS Computer Science (9)

No.	degree	university	course name	department	date	text book	instructor

9	MS Computer Science	Oakland University, Michigan	CSE 565 Compiler Construction	Computer Science	Fall 1988	Compiler construction: Theory and practice William A. Barrett, Rodney M. Bates, David A. Gustafson, John D. Couch, Science Research. 1986 	Ronald J. Srodawa
8	MS Computer Science	Oakland University, Michigan	CSE 535 Programming languages design	Computer Science	Fall 1988	Programming Languages: Design and Implementation, Terrence W. Pratt, Marvin V. Zelkowitz 	Ronald J. Srodawa
7	MS Computer Science	Oakland University, Michigan	CSE 550 Operating Systems	Computer Science	March 1988	Milenkovic, Operating Systems, McGraw Hillz 	David E. Boddy
6	MS Computer Science	Oakland University, Michigan	CSE 542 Algorithms	Computer Science	March 1988	Data structures and Algorithms. by Aho,Hopcraft and Ullman 	James H. McKay

5	MS Computer Science	Oakland University, Michigan	CSE 502 Hardware Logic design	Computer Science	January 1988	Motorola MC6800 Microprocessor family assembly language, Interface design and system design 	Subramaniam Ganesan
4	MS Computer Science	Oakland University, Michigan	CSE 504 Discrete structures and Foundation of computer science	Computer Science	January 1988	A.Doerr, K.Levasseur. by Applied Discrete Structures for computer science, SRA 1985 	Thomas G. Windeknecht
3	MS Computer Science	Oakland University, Michigan	CSE 538 Programming methodology	Computer Science	Fall 1987	Systematic Software development using VDM. by C.B.Jones 	Janusz Laski
2	MS Computer Science	Oakland University, Michigan	APM 563 Discrete methods	Mathematics	Fall 1987	Albert Tucker, Applied Combinatorals 	

1	MS Computer Science	Oakland University, Michigan	CSE 516 Artificial Intelligence	Computer Science	Summer 1987	AI by Patrick Henry Winston 	

2.7 MS Civil Engineering (9)

No.	degree	university	course name	department	date	text book	instructor
9	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 512b Special Topics in Hydrology	Civil Engineering	Summer 1983		
8	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 561 construction planning and scheduling	Civil Engineering	Spring 1983		
7	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 599 special topics	Civil Engineering	Spring 1983		
6	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 572 Construction labor management	Civil Engineering	Spring 1983		
5	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 506 Heavy Construction Estimating	Civil Engineering	Spring 1983		
4	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 462 Construction methods and Equipment	Civil Engineering	Fall 1982		

3	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 501 Functions of the constructor	Civil Engineering	Fall 1982		
2	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 508 Mechanics of Solids II	Civil Engineering	Summer 1982		
1	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 525b Engineering Analysis	Civil Engineering	Summer 1982		

2.8 B.Eng Civil/Building Engineering (20)

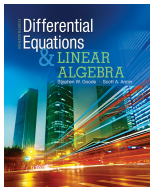
No.	degree	university	course name	department	date	text book	instructor
20	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Principles of building construction II	Civil Engineering	1980		
19	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Industrial engineering II	Civil Engineering	1980		
18	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Advanced theory/Design of structures	Civil Engineering	1980		
17	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Structural concrete and steel	Civil Engineering	1980		
16	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Advanced soil mechanics	Civil Engineering	1980		

15	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Group design project	Civil Engineering	1980		
14	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Advanced Mathematics	Civil Engineering	1979		
13	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Numerical methods and Statistics	Civil Engineering	1979		
12	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Principles of building construction I	Civil Engineering	1979		
11	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Principles of building services I	Civil Engineering	1979		
10	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Industrial Engineering I	Civil Engineering	1979		
9	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. FORTRAN programming	Civil Engineering	1979		
8	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Theory and design of structures	Civil Engineering	1979		
7	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Structural concrete	Civil Engineering	1979		
6	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Soil mechanics	Civil Engineering	1979		

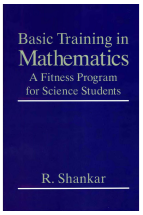
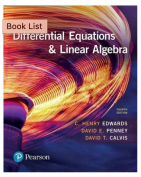
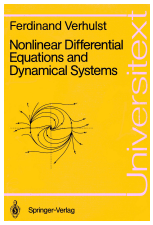
5	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Environmental science	Civil Engineering	1978		
4	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Environmental science	Civil Engineering	1978		
3	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Principles of mechanical Engineering	Civil Engineering	1978		
2	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Construction materials	Civil Engineering	1978		
1	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Graphics communication/Design	Civil Engineering	1978		

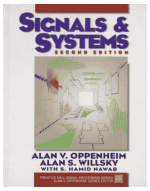
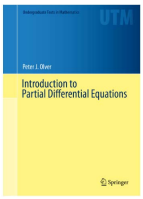
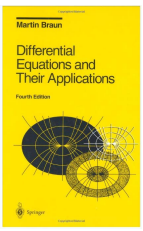
3 Official courses sorted by University

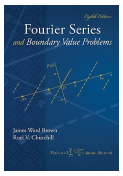
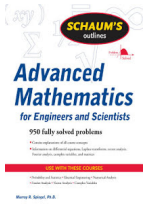
3.1 Normandale college, Bloomington, Minnesota (1)

No.	degree	university	course name	department	date	text book	instructor
1	Non-degree	Normandale college, Bloomington, Minnesota	Math 2520, Differential Equations and Linear Algebra meeting: (online) discussion: N/A finals: TBA	Mathematics	Summer 2021	Differential Equations and Linear Algebra by Goode and Annin, 4th edition, published by Pearson 	Ghidei Zedingle

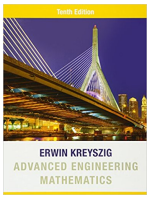
3.2 University of Minnesota, Twin Cities (8)

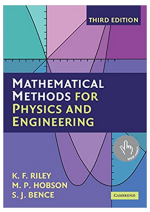
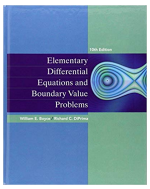
No.	degree	university	course name	department	date	text book	instructor
8	Non-degree	University of Minnesota, Twin Cities	PHYSICS 3041, Mathematical Methods for Physicists meeting: M W F 1:25-2:15 pm (online) discussion: N/A finals: TBA	Physics	Spring 2021	Basic Training in Mathematics: A Fitness Program for Science Students by R. Shankar 	Yong-Zhong Qian
7	Non-degree	University of Minnesota, Twin Cities	Math 2243, Linear algebra and differential equations meeting: TTh 6:00 PM - 8:05 PM (online) discussion: N/A finals: December 17th from 12:00 PM - 3:00 PM	Mathematics	Fall 2020	Differential Equations and Linear Algebra (4th edition) by Edwards and Penny 	Lillian Webster
6	Non-degree	University of Minnesota, Twin Cities	MATH 5525, Introduction to Ordinary Differential Equations meeting: MoWeFr 11:15AM - 12:05PM, Vincent Hall 113 discussion: N/A finals: 1:30 to 3:30 p.m., Tuesday, May 12	Mathematics	Spring 2020	Nonlinear Differential Equations and Dynamical Systems by F.Verhulst, Springer. 	M. Carme Calderer

5	Non-degree	University of Minnesota, Twin Cities	EE 3015, Signals and Systems meeting: MoWeFr 10:10AM - 11:00AM, Keller Hall 3-125 discussion: We 12:20PM - 1:10PM, Vincent Hall 213 finals: 1:30 to 3:30 p.m., Saturday, May 9	Electrical Engineering	Spring 2020	Signals and Systems 2nd ed. Oppenheim, Willsky and Nawab 	A. B (Bob) Mahmoodi
4	Non-degree	University of Minnesota, Twin Cities	MATH 5587, Elementary Partial Differential Equations I meeting: Tu Thu 4:45-6:00 PM, Amundson Hall 156 discussion: N/A finals: Tuesday Dec 10,2019 4:45-6:00pm, Amundson Hall 156	Mathematics	Fall 2019	Introduction to Partial Differential Equations by Peter Olver, ISBN 9783319020983 	Svitlana Mayboroda
3	Non-degree	University of Minnesota, Twin Cities	MATH 4512, DIFFERENTIAL EQUATIONS WITH APPLICATIONS meeting: MWF 10:10-11:00am, Vincent Hall 6 discussion: N/A finals: Dec 18,2019 8:00-10:00am, Vincent Hall 6	Mathematics	Fall 2019	Martin Braun, Differential Equations and their Applications, Springer (4th edition), 1993 	Helena Zarin

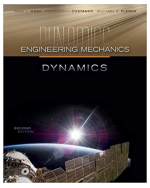
2	Non-degree	University of Minnesota, Twin Cities	MATH 4567 Applied Fourier Analysis meeting: Mo We Fr 3:35PM - 4:25PM, Vincent Hall 2 discussion: N/A	Mathematics	Spring 2019	Fourier Series and Boundary Value Problems, 8th edition by Brown, ISBN: 9780078035975 	Jiaping Wang
1	Non-degree	University of Minnesota, Twin Cities	PHYSICS 5041 Mathematical Methods for Physics meeting: Mo We 1:25PM - 2:15PM, Tate Hall 110, Fr 1:25PM - 3:20PM Tate Hall B65 discussion: N/A	Physics	Spring 2019	Schaums Outline Of Advanced Math For Engineers and Scientists, by Spiegel. ISBN: 9780071635400 	Joseph Kapusta

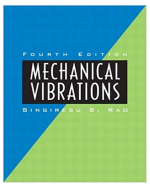
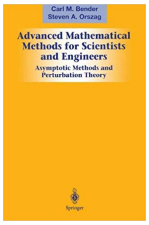
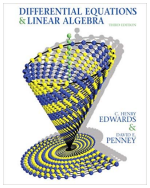
3.3 University of Wisconsin-Milwaukee (3)

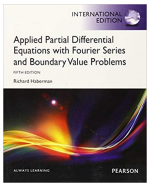
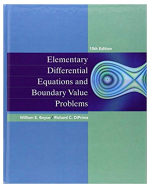
No.	degree	university	course name	department	date	text book	instructor
3	Non-degree	University Of Wisconsin, Milwaukee	Math 601 Advanced Engineering Mathematics I meeting: TuTh 9:30 AM-10:45 AM, Physics 152 discussion: N/A	Mathematics	Fall 2018	Advanced Engineering Mathematics, 10th Edition by Erwin Kreyszig 	Istvan Lauko

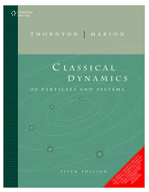
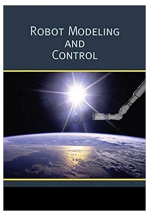
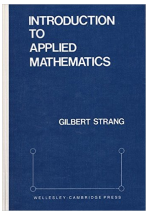
2	Non-degree	University Of Wisconsin, Milwaukee	Physics 501, Special Topics: Mathematical Models of Physical Problems I meeting: MW 12:30 PM-1:45 PM, KEN 1132 discussion: N/A	Physics	Fall 2018	Mathematical Methods for Physics and Engineering: A Comprehensive Guide, by K. F. Riley , M. P. Hobson , S. J. Bence, 3rd edition. 	Daniel Agterberg
1	Non-degree	University Of Wisconsin, Milwaukee	Math 322 Introduction to Partial differential equations meeting: TuTh 2:00PM - 3:15PM EMS E160 discussion: N/A finals: Thursday May 17, 2018 10:00 AM-12:00 PM	Mathematics	Spring 2018	Elementary Differential Equations and Boundary Value Problems, 10th Edition. William E. Boyce, 200e Richard C. DiPrima 	Hans Volkmer

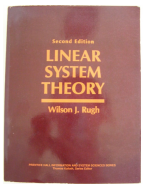
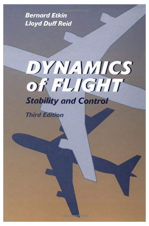
3.4 University of Wisconsin-Madison (19)

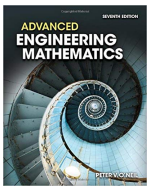
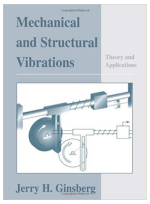
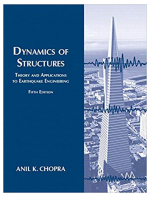
No.	degree	university	course name	department	date	text book	instructor
19	Non-degree	University Of Wisconsin, Madison	ME 240 Dynamics meeting: TuTh 1:20PM - 2:10PM ENGR HALL 1800 discussion: WeFr 9:55AM - 10:45AM, Wang,Shu 2108 MECH finals: 12/18/2017 10:05AM 12:05PM	Mechanical Engineering	Fall 2017	Dynamics ISBN 9780077891145 by Gray, Costanzo, Plesha MCGRAW HILL, second edition 	Sonny Aaron Nimityongskul

18	Non-degree	University Of Wisconsin, Madison	ME 440 Intermediate Vibrations meeting: TuTh 11:00AM - 12:15PM MECH ENGR 2108 discussion: N/A finals: 12/16/2017 2:45PM 4:45PM	Mechanical Engineering	Fall 2017	S. S. Rao Mechanical vibration 4th edition 	Andrew Mikkelson
17	Non-degree	University Of Wisconsin, Madison	EP 548 Engineering Analysis II meeting: TuTh 11:00AM - 12:15PM VAN VLECK B341 discussion: N/A finals: 05/11/2017 10:05AM 12:05PM	Engineering Physics	Spring 2017	Advanced Mathematical Methods for Scientists and Engineers I, Bender and Orszag. 	Leslie Smith
16	Non-degree	University Of Wisconsin, Madison	Math 320 Linear algebra and differential equations meeting: TuTh 9:30AM - 10:45AM VAN VLECK B239 discussion: Mo 8:50AM - 9:40AM VAN VLECK B115 finals: 05/07/2017 7:25PM 9:25PM	Mathematics	Spring 2017	Differential Equations and Linear Algebra by Edwards and Penney 	Leslie Smith

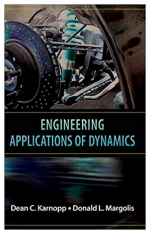
15	Non-degree	University Of Wisconsin, Madison	Math 322 Applied Mathematical Analysis meeting: MWF, 12:05-12:55 Van Hise 115 discussion: N/A finals: Sat dec 17, 5:05 PM to 7:05 PM.	Mathematics	Fall 2016	Applied Partial Differential Equations with Fourier Series and Boundary Value Problems, 5th ed. Richard Haberman 	Leslie Smith
14	Non-degree	University Of Wisconsin, Madison	Math 319: Techniques in Ordinary Differential Equations meeting: MoWeFr 2:25PM - 3:15PM, VAN VLECK B239 finals: Dec 22, 2016 12:25 PM-2:225 PM	Mathematics	Fall 2016	Elementary Differential Equations, 9th ed by William E. Boyce, Richard C. DiPrima 	Minh-Binh Tran
13	Non-degree	University Of Wisconsin, Madison	ECE 719, Optimal systems meeting: TuTh 9:30AM - 10:45AM, ENGR HALL 3418 finals: May 5 2016, 9:30 AM	Electrical Engineering	Spring 2016	Class notes	B. R. Barmish
12	Non-degree	University Of Wisconsin, Madison	EMA 471 Intermediate Problem Solving for Engineers meeting: TuTh 8:00AM - 9:15AM ENGR HALL 2261 finals: 05/12/2016 7:45AM 9:45AM	Engineering Mechanics	Spring 2016	Class notes	Robert J. Witt

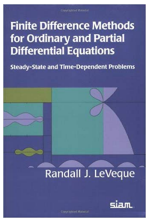
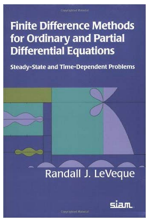
11	Non-degree	University Of Wisconsin, Madison	ECE 332, feedback control meeting: TuTh 9:30AM - 10:45AM, ENGR HALL 3418 finals: 12/10/2015, 9:30 AM	Electrical Engineering	Fall 2015	Class notes	B. R. Barmish
10	Non-degree	University Of Wisconsin, Madison	Physics 311 (Mechanics) meeting: MWF 11:00AM - 11:50AM, VAN HISE 494 discussion: Th 1:20PM - 2:10PM CHAMBERLIN 2108 finals: 12/17/2015 5:05PM	Physics	Fall 2015	S.T. Thornton, J.B. Marion, Classical Dynamics of Particles and Systems, 5th Edition, Brooks/Cole, 2004, ISBN 0534408966 	Stefan Westerhoff
9	Non-degree	University Of Wisconsin, Madison	ECE/ME 739, Introduction to Robotics	Electrical Engineering	Spring 2015	Robot Modeling and Control, by Spong, Hutchinson, and Vidyasagar ISBN ISBN 0-471-64990-2 	Michael Zinn
8	MS Engineering Mechanics	University Of Wisconsin, Madison	Math 703 methods of applied mathematics I meeting: Mu,Thu 11:00AM - 12:15PM VAN VLECK B139	Mathematics	Fall 2014	Introduction to Applied Mathematics, ISBN 0961408804 by Gilbert Strang 	Gheorghe Craciun

7	MS Engineering Mechanics	University Of Wisconsin, Madison	ECE 717 Linear systems meeting: TuTh 2:30PM - 3:45PM ENG HALL 3444 finals: 12/18/2014 10:05AM	Electrical Engineering	Fall 2014	Linear System Theory (second edition) ISBN 0134412052 by W.J. Rugh 	B. R. Barmish
6	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 550 astrodynamics meeting: TuTh 2:30PM - 3:45PM ENGR HALL 2265 finals: 05/15/2014 12:25PM 2:25PM	Engineering Mechanics	Spring 2014	class notes	Suzannah Sandrik
5	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 523 flight dynamics and control meeting: Tue, Thu, 11:00AM - 12:00PM finals: Tu,Th 9:30AM - 10:45AM ENGR HALL 1209	Engineering Mechanics	Spring 2014	Dynamics of flight, stability and control, 3rd ed Wiley, Etkin B. and Reid L.D. 1996 	Riccardo Bonazza
4	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 542 Advanced Dynamics meeting: M W F 9:55AM - 10:45AM ENGR HALL 2255 finals: 12/19/2013 12:25PM 2:25PM	Engineering Mechanics	Fall 2013	Class notes	Daniel C. Kammer

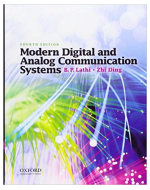
3	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 547 Engineering analysis 1 meeting: M W F 11:00AM - 11:50AM ENGR HALL 2305 finals: 12/20/2013 10:05AM 12:05PM	Engineering Mechanics	Fall 2013	Advanced Engineering Mathematics, Peter V. ONeil 6th ed 	Douglass L. Henderson
2	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 545 Engineering Vibration	Engineering Mechanics	Spring 2013	Mechanical and Structural Vibration by Ginsberg 	Matt Allen
1	MS Engineering Mechanics	University Of Wisconsin, Madison	CEE 744 Structural Dynamics and Earthquake Engineering	Civil Engineering	Spring 2013	Dynamics of Structures, Anil K. Chopra, Prentice-Hall 	Michael Oliva

3.5 University of California, Davis (3)

No.	degree	university	course name	department	date	text book	instructor
3	Non-degree	University of California, Davis	EME 121 Engineering applications of dynamics	Mechanical Engineering	Spring 2011	Engineering applications of dynamics by Karnopp and Margolis 	Donald Margolis

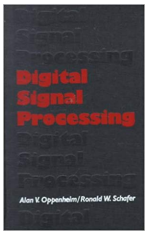
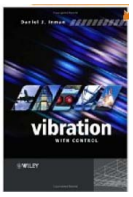
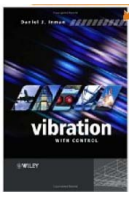
2	Non-degree	University of California, Davis	Math 228B Numerical Solution of Differential Equations	Mathematics	Winter 2011	Finite Difference Methods for Ordinary and Partial Differential Equations by Randall J. LeVeque 	Robert Guy
1	Non-degree	University of California, Davis	Math 228A Numerical Solution of Differential Equations	Mathematics	Fall 2010	Finite Difference Methods for Ordinary and Partial Differential Equations by Randall J. LeVeque 	Robert Guy

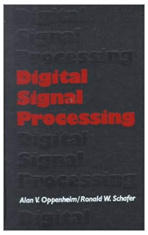
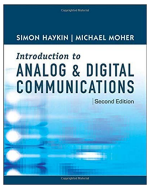
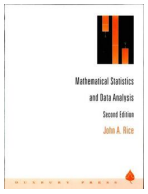
3.6 Cal Poly Pomona, California (1)

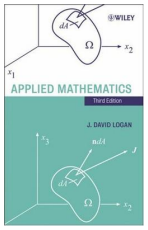
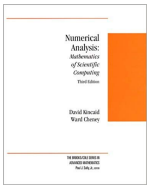
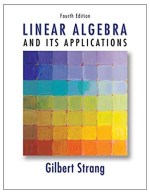
No.	degree	university	course name	department	date	text book	instructor
1	Non-degree	Cal Poly Pomona, California	ECE 405 Communication systems	Electrical Engineering	Summer session I 2010	Modern digital and analog communication systems by Lathi 	James Kang

3.7 California state University, Fullerton (14)

No.	degree	university	course name	department	date	text book	instructor

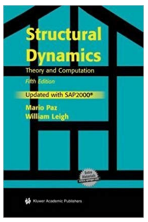
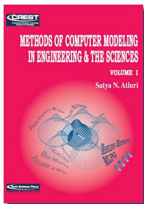
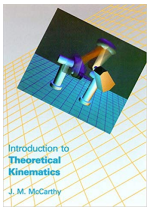
14	Non-degree	California state University Fullerton	EGEE 420 Digital filters	Electrical Engineering	Spring 2010	DIGITAL SIGNAL PROCESSING by OPPENHEIM 	Mostafa Shiva
13	Non-degree	California state University Fullerton	EGEE 409 Linear systems and signals	Electrical Engineering	Spring 2010	Signals and linear systems by Gabel and Roberts, 3rd ed 	Mohinder S. Grewal
12	Non-degree	California state University Fullerton	EGME 511 Advanced Mechanical Vibration	Mechanical Engineering	Spring 2009	Vibration with Control by Daniel Inman 2nd edition 	Sang June Oh
11	Non-degree	California state University Fullerton	EGME 431 Mechanical Vibration	Mechanical Engineering	Spring 2009	Vibration with Control by Daniel Inman 2nd edition 	Sang June Oh

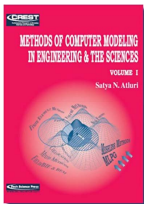
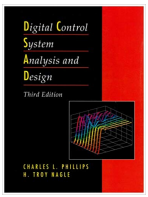
10	MS Applied Mathematics	California state University Fullerton	EGEE 518 Digital Signal Processing I	Electrical Engineering	Fall 2008	DIGITAL SIGNAL PROCESSING by OPPENHEIM 	Mostafa Shiva
9	MS Applied Mathematics	California state University Fullerton	EGEE 443 Electronic Communication Systems	Electrical Engineering	Fall 2008	INTRODUCTION TO ANALOG and DIGITAL COMMUNICATIONS By HAYKIN 	Karim Hamidian
8	MS Applied Mathematics	California state University Fullerton	Math 597 B Finals Research	Applied Mathematics	Summer 2008		Angel R. Pineda
7	MS Applied Mathematics	California state University Fullerton	Math 597 A Finals Research	Applied Mathematics	Summer 2008		W. B. Gearhart
6	MS Applied Mathematics	California state University Fullerton	Math 504 Simulation Modeling and Analysis	Applied Mathematics	Spring 2008	Lecture notes by Dr Gearhart. Reference book: Introduction to probability models by Sheldon Ross	W. B. Gearhart
5	MS Applied Mathematics	California state University Fullerton	Math 502 Probability and Statistics	Applied Mathematics	Fall 2007	Mathematical statistics and data analysis 3rd edition. By John Rice 	Mori Jamshidian

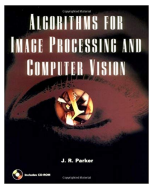
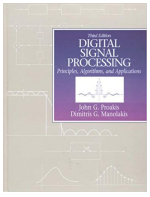
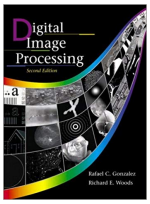
4	MS Applied Mathematics	California state University Fullerton	Math 503 Mathematical Modeling	Applied Mathematics	Summer 2007	Applied Mathematics 3rd edition by David Logan 	W. B. Gearhart
3	MS Applied Mathematics	California state University Fullerton	Math 499 independent studies	Applied Mathematics	Spring 2007		Angel R. Pineda
2	MS Applied Mathematics	California state University Fullerton	Math 501 Numerical Analysis and computation	Applied Mathematics	Spring 2007	Numerical Analysis 3rd edition. by David R. Kincaid, E. Ward Cheney 	C. H. Lee
1	MS Applied Mathematics	California state University Fullerton	Math 307 Linear Algebra	Applied Mathematics	Spring 2007	Linear Algebra and its Applications 4th edition. By Gilbert Strang 	Angel R. Pineda

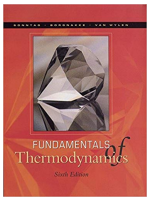
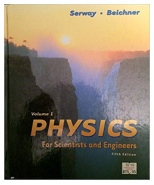
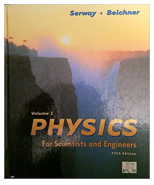
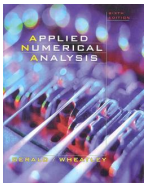
3.8 University Of California, Irvine (21)

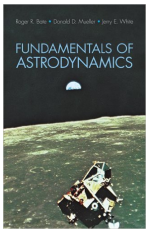
No.	degree	university	course name	department	date	text book	instructor

21	MS Mechanical Engineering	University Of California, Irvine	CE 247 Structural Dynamics	Civil Engineering	Fall 2006	Structural Dynamics. 5th edition. Mario PAZ 	Maria Q. Feng
20	MS Mechanical Engineering	University Of California, Irvine	PHY 100 Computational Methods in Physics	Physics	Fall 2006	Instructor own Mathematica HandBook	Peter Taborek
19	MS Mechanical Engineering	University Of California, Irvine	MAE 299 research 1 unit	Mechanical Engineering	Spring 2006		A. Sideris
18	MS Mechanical Engineering	University Of California, Irvine	MAE 207 Computational methods	Mechanical Engineering	Spring 2006	Methods of computer modeling in engineering and the sciences. Vol 1. By S.N. Atluri 	S. N. Atluri
17	MS Mechanical Engineering	University Of California, Irvine	MAE 244 Theoretical Kinematics	Mechanical Engineering	Spring 2006	Introduction to theoretical kinematics, by J.M.McCarthy 	J.M. McCarthy

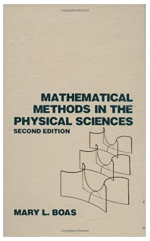
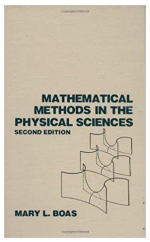
16	MS Mechanical Engineering	University Of California, Irvine	MAE 295 Solid mechanics	Mechanical Engineering	Winter 2006	Methods of computer modeling in engineering and the sciences. Vol 1. By S.N.Atluri 	S.N. Atluri
15	MS Mechanical Engineering	University Of California, Irvine	MAE 200B Engineering Analysis II	Mechanical Engineering	Winter 2006	Instructor notes	Feng Liu
14	MS Mechanical Engineering	University Of California, Irvine	MAE 270A Linear Systems 1	Mechanical Engineering	Fall 2005	Instructor notes	A. Sideris
13	MS Mechanical Engineering	University Of California, Irvine	MAE 200A Engineering Analysis 1	Mechanical Engineering	Fall 2005	Instructor notes	K.D. Mease
12	MS Mechanical Engineering	University Of California, Irvine	MAE 171 Digital Control	Mechanical Engineering	Spring 2005	Digital Control System Analysis and Design. 3rd edition. By Charles Phillips and H. Troy Nagle 	A. Sideris
11	MS Mechanical Engineering	University Of California, Irvine	MAE 170 Introduction to control systems	Mechanical Engineering	Winter 2005	Modern control engineering, Ogata, 4th edition 	James Bobrow

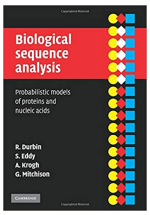
10	MS Mechanical Engineering	University Of California, Irvine	MAE 106 Mechanical Systems Lab	Mechanical Engineering	Winter 2005	Modern control engineering, Ogata, 4th edition 	David J. Reinkensmeyer
9	Non-degree	University Of California, Irvine	EECS 207A Advanced Image processing	Electrical Engineering	Fall 2004	Algorithms for Image Processing and computer vision, J.R.Parker 	Joerg Meyer
8	Non-degree	University Of California, Irvine	EECS 152A Digital Signal processing	Electrical Engineering	Fall 2004	DSP by Proakis and Manolakis, 3rd edition 	Glenn Healey
7	Non-degree	University Of California, Irvine	EECS 203A Digital Image processing	Electrical Engineering	Fall 2004	Digital image processing, 2nd edition by Gonzales and Woods 	Glenn Healey

6	Non-degree	University Of California, Irvine	MAE 91 Introduction To Thermodynamics	Mechanical Engineering	Summer 2004	FUNDAMENTALS THERMODYNAMICS by SONNTAG 	Hong Zhou
5	Non-degree	University Of California, Irvine	Physics 7LD Classical Physics 7D Lab	Physics	Summer 2003	Lab notes	Roger D. McWilliams
4	Non-degree	University Of California, Irvine	Physics 7D Classical Physics	Physics	Summer 2003	Physics. By Serway and Beichner 	Roger D. McWilliams
3	Non-degree	University Of California, Irvine	Physics 7E Classical Physics	Physics	Summer 2003	Physics. By Serway and Beichner 	Roger D. McWilliams
2	Non-degree	University Of California, Irvine	MAE 185 Applied Numerical Analysis	Mechanical Engineering	Spring 2003	Applied Numerical Analysis, C.F. Gerald and P.O. Wheatley, 5th Edition 	Maqsood Chaudhry

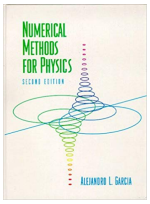
1	Non-degree	University Of California, Irvine	MAE 146 Astronautics	Mechanical Engineering	Spring 2003	Fundamentals of Astrodynamics, R.R. Bate, D.D. Mueller, J.E. White, Dover 	Melissa Orme

3.9 University Of California, Berkeley (3)

No.	degree	university	course name	department	date	text book	instructor
3	Non-degree	University Of California, Berkeley	MATH 121B Mathematical Tools for the Physical Sciences	Mathematics	Spring 2004	MATHEMATICAL METHODS IN PHYSICAL SCI, BOAS. 2nd edition 	Richard E. Borcherds
2	Non-degree	University Of California, Berkeley	MATH 121A Mathematical Tools for the Physical Sciences	Mathematics	Spring 2004	MATHEMATICAL METHODS IN PHYSICAL SCI, BOAS. 2nd edition 	Fraydoun Rezakhanlou

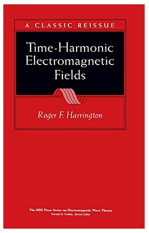
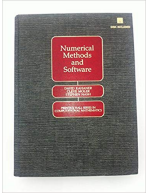
1	Non-degree	University Of California, Berkeley	Math 127 Mathematical and Computational Methods in Molecular Biology	Mathematics	Fall 2002	Biological sequence analysis: probabilistic models of proteins and nucleic acids By Richard Durbin 	Lior Pachter

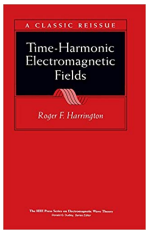
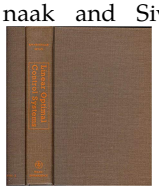
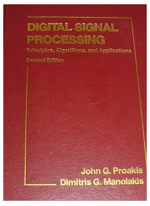
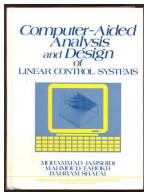
3.10 California State University, San Jose (1)

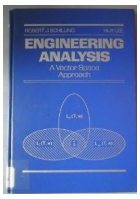
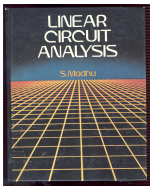
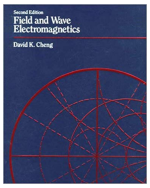
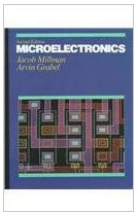
No.	degree	university	course name	department	date	text book	instructor
1	Non-degree	California State University, San Jose	Physics 240 Computational Physics	Physics	Fall 2002	Numerical Methods for Physics, 2nd Edition. A.L.Garcia 	Alejandro Garcia

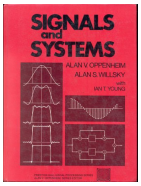
3.11 Northeastern University, Boston, MA (15)

No.	degree	university	course name	department	date	text book	instructor
15	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3311 Software engineering 1	Electrical Engineering	Fall 1993	class notes	David R. Kaeli
14	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3341 Probability and stochastic processes	Electrical Engineering	Fall 1993	class notes	Vinay K. Ingle

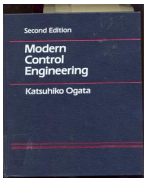
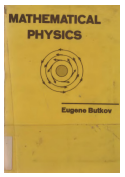
13	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3343 Electromagnetic theory II	Electrical Engineering	Fall 1993	Time-Harmonic Electromagnetic Fields, by Roger F. Harrington 	Charles J. Drane
12	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3325 Numerical software development methods	Electrical Engineering	March 1993	Numerical software, Nash,Moler and Kahaner 1989 	Wilfred J. Remillard
11	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3386 Characteristics and models of solid state devices II	Electrical Engineering	January 1993	semiconductor Device Physics and Technology, by S.M. Sze, John wiley and Sons, 1985 	Nagappan K. Annamalai
10	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3385 Characteristics and models of solid state devices I	Electrical Engineering	Fall 1992	semiconductor Device Physics and Technology, by S.M. Sze, John wiley and Sons, 1985 	Nagappan K. Annamalai

9	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3342 Electromagnetic theory I	Electrical Engineering	Fall 1992	Time-Harmonic Electromagnetic Fields, by Roger F. Harrington 	Charles J. Drane
8	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3371 Linear Optimal Control Theory I	Electrical Engineering	March 1992	Linear Optimal Control Systems. by Kwakwenaak and Sivan 	Gilead Tadmor
7	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3321 Digital Signal Processing	Electrical Engineering	March 1992	Digital Signal Processing by Proakis, Macmillan and Manolakis 	Ram Raghavan
6	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3221 Linear Systems Analysis	Electrical Engineering	January 1992	Computer Aided Analysis and Design of Linear control systems. B. Shafi. Prentice Hall 	Bahram Shafai

5	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3211 Mathematical Methods in EE I	Electrical Engineering	Fall 1991	Engineering Analysis , Vector Space approach by Robert J. Schilling , Hua Lee. Finite Dimensional Vector Space, by R.Halmos 	Gilead Tadmor
4	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3100 Introduction to circuits and Systems I	Electrical Engineering	Fall 1991	Linear Circuits Analysis by S. Madhu 	William J. Bintz
3	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3102 Introduction to Electromagnetic Field Theory I	Electrical Engineering	March 1991	Field And Wave Electromagnetics, by David K. Cheng 	Charles J. Drane
2	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3101 Micro-Electronics I	Electrical Engineering	January 1991	Microelectronics by Jacob Millman, Arvin Grabelg 	Bill Bintz

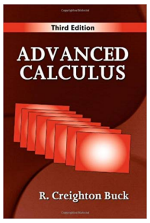
1	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3108 Signals and Systems	Electrical Engineering	January 1991	Signals And Systems By Alan V. Oppenheim, Alan S. Willsky 	Lisa Shatz

3.12 University of Massachusetts, Amherst, MA (2)

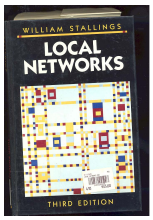
No.	degree	university	course name	department	date	text book	instructor
2	MS Electrical Engineering	University of Massachusetts, Amherst, MA	ECE 580 Feedback control systems	Electrical Engineering	Summer 1992 (transfer course)	Modern Control Engineering, by K. Ogata, 2nd edition, Prentice Hall, 1990 	Wei-Bo Gong
1	MS Electrical Engineering	University of Massachusetts, Amherst, MA	MATH 697P Mathematical Methods For Science And Engineering I	Mathematics	Summer 1991 (Transfer course)	Mathematical Physics, Eugene Butkov, Addison Wesley 	Donald F St. Mary

3.13 University of Massachusetts, Lowell, MA (1)

No.	degree	university	course name	department	date	text book	instructor

1	Non-degree	University of Massachusetts, Lowell, MA	MATH 92.306 Real Analysis II	Mathematics	Summer 1992	Advanced calculus by R. Creighton Buck 	James Graham-Eagle

3.14 Boston University, Boston, MA (1)

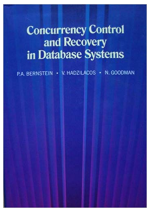
No.	degree	university	course name	department	date	text book	instructor
1	Non-degree	Boston University, Boston, MA	CSE 635 Local Area Networks: Design and Implementation	Computer Science	Fall 1990	Local Networks, Second Edition, by Stalling, William 	Mikhail Orlov

3.15 University Of Washington, Seattle, WA (1)

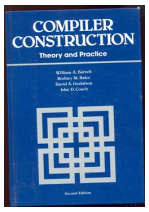
No.	degree	university	course name	department	date	text book	instructor
1	Non-degree	University Of Washington, Seattle, WA	CSE 524 Parallel Algorithms	Computer Science	March 1990	class notes	Richard Anderson

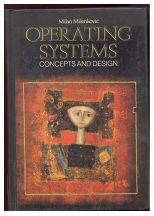
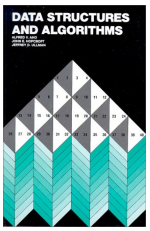
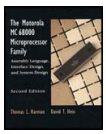
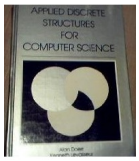
3.16 University Of California, Santa Barbara, CA (1)

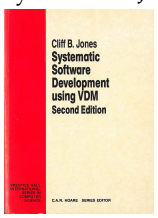
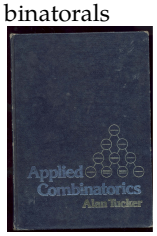
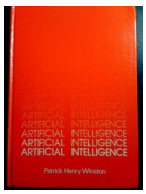
No.	degree	university	course name	department	date	text book	instructor

1	Non-degree	University Of California, Santa Barbara	CSE 274 Advanced Topics in Data Base	Computer Science	March 1989	Concurrency Control And Recovery in Data Base Systems. by Bernstein, Hadzilacos, Goodman. Addison Wesley 	Divyakant Agrawal

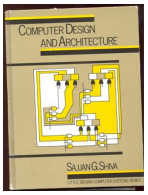
3.17 Oakland University, Michigan (9)

No.	degree	university	course name	department	date	text book	instructor
9	MS Computer Science	Oakland University, Michigan	CSE 565 Compiler Construction	Computer Science	Fall 1988	Compiler construction: Theory and practice William A. Barrett, Rodney M. Bates, David A. Gustafson, John D. Couch, Science Research. 1986 	Ronald J. Srodawa
8	MS Computer Science	Oakland University, Michigan	CSE 535 Programming languages design	Computer Science	Fall 1988	Programming Languages: Design and Implementation, Terrence W. Pratt, Marvin V. Zelkowitz 	Ronald J. Srodawa

7	MS Computer Science	Oakland University, Michigan	CSE 550 Operating Systems	Computer Science	March 1988	Milenkovic, Operating Systems, McGraw Hillz 	David E. Boddy
6	MS Computer Science	Oakland University, Michigan	CSE 542 Algorithms	Computer Science	March 1988	Data structures and Algorithms. by Aho,Hopcraft and Ullman 	James H. McKay
5	MS Computer Science	Oakland University, Michigan	CSE 502 Hardware Logic design	Computer Science	January 1988	Motorola MC6800 Microprocessor family assembly language, Interface design and system design 	Subramaniam Ganesan
4	MS Computer Science	Oakland University, Michigan	CSE 504 Discrete structures and Foundation of computer science	Computer Science	January 1988	A.Doerr, K.Levasseur. by Applied Discrete Structures for computer science, SRA 1985 	Thomas G. Windeknecht

3	MS Computer Science	Oakland University, Michigan	CSE 538 Programming methodology	Computer Science	Fall 1987	Systematic Software development using VDM. by C.B.Jones 	Janusz Laski
2	MS Computer Science	Oakland University, Michigan	APM 563 Discrete methods	Mathematics	Fall 1987	Albert Tucker, Applied Combinatorals 	
1	MS Computer Science	Oakland University, Michigan	CSE 516 Artificial Intelligence	Computer Science	Summer 1987	AI by Patrick Henry Winston 	

3.18 Wayne State University, Detroit, Michigan (2)

No.	degree	university	course name	department	date	text book	instructor
2	Non-degree	Wayne State University, Detroit, Michigan	CSE 531 Computer Organization	Electrical Engineering	March 1987	Computer Design and Architecture by Sajjan G. Shirva 	Aridam Guptaray

1	Non-degree	Wayne State University, Detroit, Michigan	CSE 562 Mini-Micro Computers	Electrical Engineering	March 1987	J.f.Wakerly microcomputer Architecture and Programming, John Wileya 	Harpreet Singh

3.19 University of Southern California (USC), Los Angeles, CA (9)

No.	degree	university	course name	department	date	text book	instructor
9	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 512b Special Topics in Hydrology	Civil Engineering	Summer 1983		
8	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 561 construction planning and scheduling	Civil Engineering	Spring 1983		
7	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 599 special topics	Civil Engineering	Spring 1983		
6	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 572 Construction labor management	Civil Engineering	Spring 1983		
5	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 506 Heavy Construction Estimating	Civil Engineering	Spring 1983		

4	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 462 Construction methods and Equipment	Civil Engineering	Fall 1982		
3	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 501 Functions of the constructor	Civil Engineering	Fall 1982		
2	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 508 Mechanics of Solids II	Civil Engineering	Summer 1982		
1	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 525b Engineering Analysis	Civil Engineering	Summer 1982		

3.20 Liverpool University, England (20)

No.	degree	university	course name	department	date	text book	instructor
20	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Principles of building construction II	Civil Engineering	1980		
19	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Industrial engineering II	Civil Engineering	1980		
18	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Advanced theory/Design of structures	Civil Engineering	1980		
17	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Structural concrete and steel	Civil Engineering	1980		

16	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Advanced soil mechanics	Civil Engineering	1980		
15	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Group design project	Civil Engineering	1980		
14	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Advanced Mathematics	Civil Engineering	1979		
13	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Numerical methods and Statistics	Civil Engineering	1979		
12	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Principles of building construction I	Civil Engineering	1979		
11	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Principles of building services I	Civil Engineering	1979		
10	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Industrial Engineering I	Civil Engineering	1979		
9	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. FORTRAN programming	Civil Engineering	1979		
8	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Theory and design of structures	Civil Engineering	1979		
7	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Structural concrete	Civil Engineering	1979		

6	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Soil mechanics	Civil Engineering	1979		
5	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Environmental science	Civil Engineering	1978		
4	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Environmental science	Civil Engineering	1978		
3	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Principles of mechanical Engineering	Civil Engineering	1978		
2	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Construction materials	Civil Engineering	1978		
1	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Graphics communication/Design	Civil Engineering	1978		

3.21 Stockton Billingham technical College, England (5)

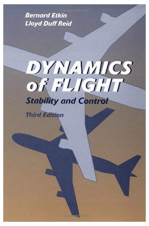
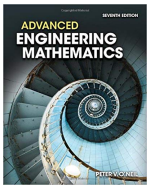
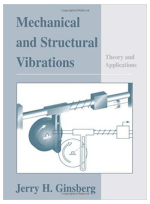
No.	degree	university	course name	department	date	text book	instructor
5	GCE A-level	Stockton Billingham technical College, England	Physics	Physics	1977		
4	GCE A-level	Stockton Billingham technical College, England	Mathematics, University of London Board	Mathematics	1977		

3	GCE A-level	Stockton Billingham technical College, England	Further Mathematics University of London Board	Mathematics	1977		
2	GCE A-level	Stockton Billingham technical College, England	Pure Mathematics Associated examination Board	Mathematics	1977		
1	GCE A-level	Stockton Billingham technical College, England	Applied Mathematics Associated examination Board	Mathematics	1977		

4 Official courses sorted by Department

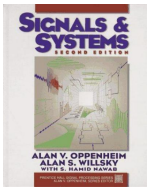
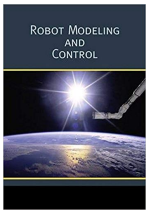
4.1 Engineering Mechanics (6)

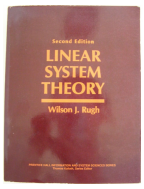
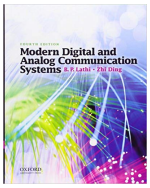
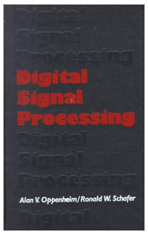
No.	degree	university	course name	department	date	text book	instructor
6	Non-degree	University Of Wisconsin, Madison	EMA 471 Intermediate Problem Solving for Engineers meeting: TuTh 8:00AM - 9:15AM ENGR HALL 2261 finals: 05/12/2016 7:45AM 9:45AM	Engineering Mechanics	Spring 2016	Class notes	Robert J. Witt
5	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 550 astrodynamics meeting: TuTh 2:30PM - 3:45PM ENGR HALL 2265 finals: 05/15/2014 12:25PM 2:25PM	Engineering Mechanics	Spring 2014	class notes	Suzannah Sandrik

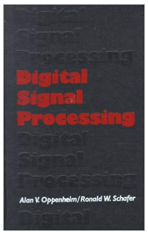
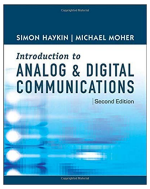
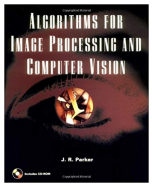
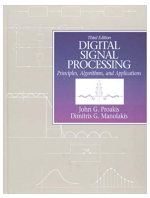
4	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 523 flight dynamics and control meeting: Tue, Thu, 11:00AM - 12:00PM finals: Tu,Th 9:30AM - 10:45AM ENGR HALL 1209	Engineering Mechanics	Spring 2014	Dynamics of flight, stability and control, 3rd ed Wiley, Etkin B. and Reid L.D. 1996 	Riccardo Bonazza
3	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 542 Advanced Dynamics meeting: M W F 9:55AM - 10:45AM ENGR HALL 2255 finals: 12/19/2013 12:25PM 2:25PM	Engineering Mechanics	Fall 2013	Class notes	Daniel C. Kammer
2	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 547 Engineering analysis 1 meeting: M W F 11:00AM - 11:50AM ENGR HALL 2305 finals: 12/20/2013 10:05AM 12:05PM	Engineering Mechanics	Fall 2013	Advanced Engineering Mathematics, Peter V. ONeil 6th ed 	Douglass L. Henderson
1	MS Engineering Mechanics	University Of Wisconsin, Madison	EMA 545 Engineering Vibration	Engineering Mechanics	Spring 2013	Mechanical and Structural Vibration by Ginsberg 	Matt Allen

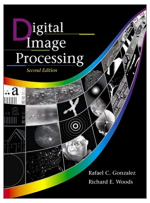
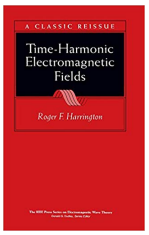
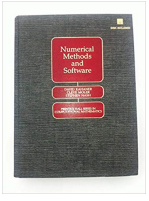
4.2 Electrical Engineering (31)

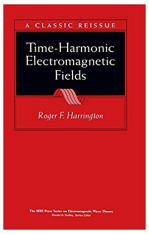
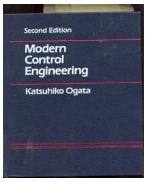
No.	degree	university	course name	department	date	text book	instructor

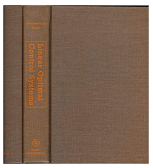
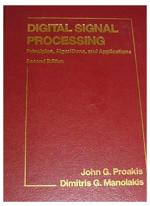
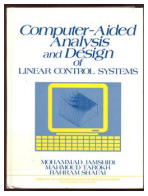
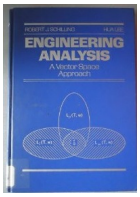
31	Non-degree	University of Minnesota, Twin Cities	EE 3015, Signals and Systems meeting: MoWeFr 10:10AM - 11:00AM, Keller Hall 3-125 discussion: We 12:20PM - 1:10PM, Vincent Hall 213 finals: 1:30 to 3:30 p.m., Saturday, May 9	Electrical Engineering	Spring 2020	Signals and Systems 2nd ed. Oppenheim, Willsky and Nawab 	A. B (Bob) Mahmoodi
30	Non-degree	University Of Wisconsin, Madison	ECE 719, Optimal systems meeting: TuTh 9:30AM - 10:45AM, ENGR HALL 3418 finals: May 5 2016, 9:30 AM	Electrical Engineering	Spring 2016	Class notes	B. R. Barmish
29	Non-degree	University Of Wisconsin, Madison	ECE 332, feedback control meeting: TuTh 9:30AM - 10:45AM, ENGR HALL 3418 finals: 12/10/2015, 9:30 AM	Electrical Engineering	Fall 2015	Class notes	B. R. Barmish
28	Non-degree	University Of Wisconsin, Madison	ECE/ME 739, Introduction to Robotics	Electrical Engineering	Spring 2015	Robot Modeling and Control, by Spong, Hutchinson, and Vidyasagar ISBN ISBN 0-471-64990-  2	Michael Zinn

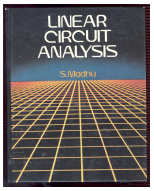
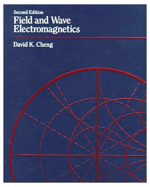
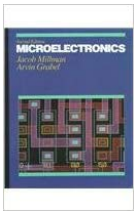
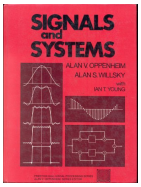
27	MS Engineering Mechanics	University Of Wisconsin, Madison	ECE 717 Linear systems meeting: TuTh 2:30PM - 3:45PM ENG HALL 3444 finals: 12/18/2014 10:05AM	Electrical Engineering	Fall 2014	Linear System Theory (second edition) ISBN 0134412052 by W.J. Rugh 	B. R. Barmish
26	Non-degree	Cal Poly Pomona, California	ECE 405 Communication systems	Electrical Engineering	Summer session I 2010	Modern digital and analog communication systems by Lathi 	James Kang
25	Non-degree	California state University Fullerton	EGEE 420 Digital filters	Electrical Engineering	Spring 2010	DIGITAL SIGNAL PROCESSING by OPPENHEIM 	Mostafa Shiva
24	Non-degree	California state University Fullerton	EGEE 409 Linear systems and signals	Electrical Engineering	Spring 2010	Signals and linear systems by Gabel and Roberts, 3rd ed 	Mohinder S. Grewal

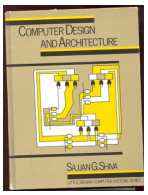
23	MS Applied Mathematics	California state University Fullerton	EGEE 518 Digital Signal Processing I	Electrical Engineering	Fall 2008	DIGITAL SIGNAL PROCESSING by OPPENHEIM 	Mostafa Shiva
22	MS Applied Mathematics	California state University Fullerton	EGEE 443 Electronic Communication Systems	Electrical Engineering	Fall 2008	INTRODUCTION TO ANALOG and DIGITAL COMMUNICATIONS By HAYKIN 	Karim Hamidian
21	Non-degree	University Of California, Irvine	EECS 207A Advanced Image processing	Electrical Engineering	Fall 2004	Algorithms for Image Processing and computer vision, J.R.Parker 	Joerg Meyer
20	Non-degree	University Of California, Irvine	EECS 152A Digital Signal processing	Electrical Engineering	Fall 2004	DSP by Proakis and Manolakis, 3rd edition 	Glenn Healey

19	Non-degree	University Of California, Irvine	EECS 203A Digital Image processing	Electrical Engineering	Fall 2004	Digital image processing, 2nd edition by Gonzales and Woods 	Glenn Healey
18	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3311 Software engineering 1	Electrical Engineering	Fall 1993	class notes	David R. Kaeli
17	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3341 Probability and stochastic processes	Electrical Engineering	Fall 1993	class notes	Vinay K. Ingle
16	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3343 Electromagnetic theory II	Electrical Engineering	Fall 1993	Time-Harmonic Electromagnetic Fields, by Roger F. Harrington 	Charles J. Drane
15	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3325 Numerical software development methods	Electrical Engineering	March 1993	Numerical software, Nash,Moler and Kahaner 1989 	Wilfred J. Remillard

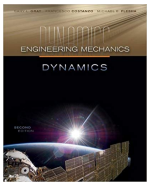
14	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3386 Characteristics and models of solid state devices II	Electrical Engineering	January 1993	semiconductor Device Physics and Technology, by S.M. Sze, John wiley and Sons, 1985 	Nagappan K. Annamalai
13	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3385 Characteristics and models of solid state devices I	Electrical Engineering	Fall 1992	semiconductor Device Physics and Technology, by S.M. Sze, John wiley and Sons, 1985 	Nagappan K. Annamalai
12	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3342 Electromagnetic theory I	Electrical Engineering	Fall 1992	Time-Harmonic Electromagnetic Fields, by Roger F. Harrington 	Charles J. Drane
11	MS Electrical Engineering	University of Massachusetts, Amherst, MA	ECE 580 Feedback control systems	Electrical Engineering	Summer 1992 (transfer course)	Modern Control Engineering, by K. Ogata, 2nd edition, Prentice Hall, 1990 	Wei-Bo Gong

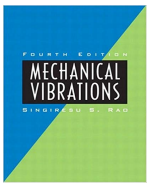
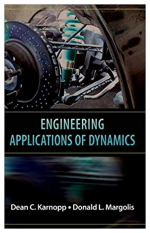
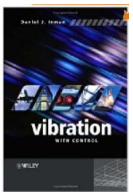
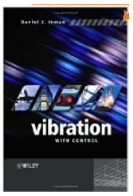
10	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3371 Linear Optimal Control Theory I	Electrical Engineering	March 1992	Linear Optimal Control Systems. by Kwakwenaak and Sivan 	Gilead Tadmor
9	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3321 Digital Signal Processing	Electrical Engineering	March 1992	Digital Signal Processing by Proakis, Macmillan and Manolakis 	Ram Raghavan
8	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3221 Linear Systems Analysis	Electrical Engineering	January 1992	Computer Aided Analysis and Design of Linear control systems. B. Shafi. Prentice Hall 	Bahram Shafai
7	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3211 Mathematical Methods in EE I	Electrical Engineering	Fall 1991	Engineering Analysis , Vector Space approach by Robert J. Schilling , Hua Lee. Finite Dimensional Vector Space, by R.Halmos 	Gilead Tadmor

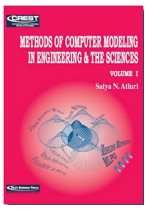
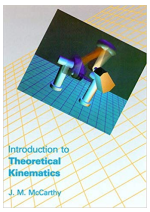
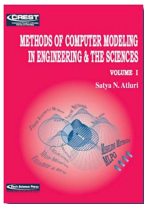
6	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3100 Introduction to circuits and Systems I	Electrical Engineering	Fall 1991	Linear Circuits Analysis by S. Madhu 	William J. Bintz
5	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3102 Introduction to Electromagnetic Field Theory I	Electrical Engineering	March 1991	Field And Wave Electromagnetics, by David K. Cheng 	Charles J. Drane
4	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3101 Micro-Electronics I	Electrical Engineering	January 1991	Microelectronics by Jacob Millman, Arvin Grabelg 	Bill Bintz
3	MS Electrical Engineering	Northeastern University, Boston, MA	ECE 3108 Signals and Systems	Electrical Engineering	January 1991	Signals And Systems By Alan V. Oppenheim, Alan S. Willsky 	Lisa Shatz

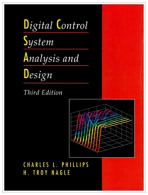
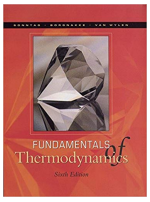
2	Non-degree	Wayne State University, Detroit, Michigan	CSE 531 Computer Organization	Electrical Engineering	March 1987	Computer Design and Architecture by Sajjan G. Shirva 	Aridam Guptaray
1	Non-degree	Wayne State University, Detroit, Michigan	CSE 562 Mini-Micro Computers	Electrical Engineering	March 1987	J.f.Wakerly microcomputer Architecture and Programming, John Wileya 	Harpreet Singh

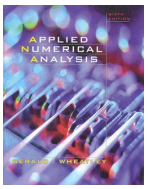
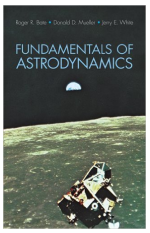
4.3 Mechanical Engineering (18)

No.	degree	university	course name	department	date	text book	instructor
18	Non-degree	University Of Wisconsin, Madison	ME 240 Dynamics meeting: TuTh 1:20PM - 2:10PM ENGR HALL 1800 discussion: WeFr 9:55AM - 10:45AM, Wang,Shu 2108 MECH finals: 12/18/2017 10:05AM 12:05PM	Mechanical Engineering	Fall 2017	Dynamics ISBN 9780077891145 by Gray, Costanzo, Plesha MCGRAW HILL, second edition 	Sonny Aaron Nimityongskul

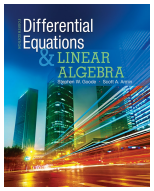
17	Non-degree	University Of Wisconsin, Madison	ME 440 Intermediate Vibrations meeting: TuTh 11:00AM - 12:15PM MECH ENGR 2108 discussion: N/A finals: 12/16/2017 2:45PM 4:45PM	Mechanical Engineering	Fall 2017	S. S. Rao Mechanical vibration 4th edition 	Andrew Mikkelson
16	Non-degree	University of California, Davis	EME 121 Engineering applications of dynamics	Mechanical Engineering	Spring 2011	Engineering applications of dynamics by Karnopp and Margolis 	Donald Margolis
15	Non-degree	California state University Fullerton	EGME 511 Advanced Mechanical Vibration	Mechanical Engineering	Spring 2009	Vibration with Control by Daniel Inman 2nd edition 	Sang June Oh
14	Non-degree	California state University Fullerton	EGME 431 Mechanical Vibration	Mechanical Engineering	Spring 2009	Vibration with Control by Daniel Inman 2nd edition 	Sang June Oh
13	MS Mechanical Engineering	University Of California, Irvine	MAE 299 research 1 unit	Mechanical Engineering	Spring 2006		A. Sideris

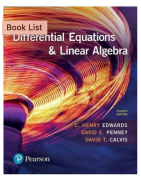
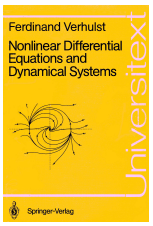
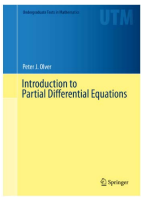
12	MS Mechanical Engineering	University Of California, Irvine	MAE 207 Computational methods	Mechanical Engineering	Spring 2006	Methods of computer modeling in engineering and the sciences. Vol 1. By S.N. Atluri 	S. N. Atluri
11	MS Mechanical Engineering	University Of California, Irvine	MAE 244 Theoretical Kinematics	Mechanical Engineering	Spring 2006	Introduction to theoretical kinematics, by J.M.McCarthy 	J.M. McCarthy
10	MS Mechanical Engineering	University Of California, Irvine	MAE 295 Solid mechanics	Mechanical Engineering	Winter 2006	Methods of computer modeling in engineering and the sciences. Vol 1. By S.N.Atluri 	S.N. Atluri
9	MS Mechanical Engineering	University Of California, Irvine	MAE 200B Engineering Analysis II	Mechanical Engineering	Winter 2006	Instructor notes	Feng Liu
8	MS Mechanical Engineering	University Of California, Irvine	MAE 270A Linear Systems 1	Mechanical Engineering	Fall 2005	Instructor notes	A. Sideris
7	MS Mechanical Engineering	University Of California, Irvine	MAE 200A Engineering Analysis 1	Mechanical Engineering	Fall 2005	Instructor notes	K.D. Mease

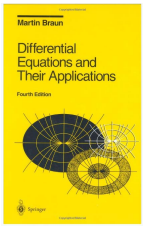
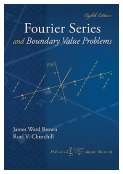
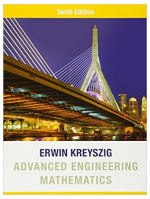
6	MS Mechanical Engineering	University Of California, Irvine	MAE 171 Digital Control	Mechanical Engineering	Spring 2005	Digital Control System Analysis and Design. 3rd edition. By Charles Phillips and H. Troy Nagle 	A. Sideris
5	MS Mechanical Engineering	University Of California, Irvine	MAE 170 Introduction to control systems	Mechanical Engineering	Winter 2005	Modern control engineering, Ogata, 4th edition 	James Bobrow
4	MS Mechanical Engineering	University Of California, Irvine	MAE 106 Mechanical Systems Lab	Mechanical Engineering	Winter 2005	Modern control engineering, Ogata, 4th edition 	David J. Reinkensmeyer
3	Non-degree	University Of California, Irvine	MAE 91 Introduction To Thermodynamics	Mechanical Engineering	Summer 2004	FUNDAMENTALS THERMODYNAMICS by SONNTAG 	Hong Zhou

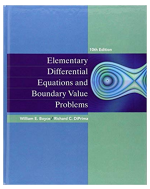
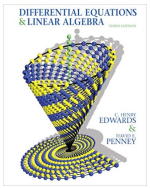
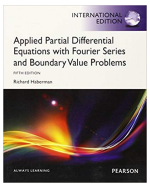
2	Non-degree	University Of California, Irvine	MAE 185 Applied Numerical Analysis	Mechanical Engineering	Spring 2003	Applied Numerical Analysis, C.F. Gerald and P.O. Wheatley, 5th Edition 	Maqsood Chaudhry
1	Non-degree	University Of California, Irvine	MAE 146 Astronautics	Mechanical Engineering	Spring 2003	Fundamentals of Astrodynamics, R.R. Bate, D.D. Mueller, J.E. White, Dover 	Melissa Orme

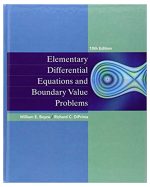
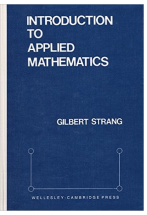
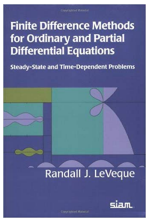
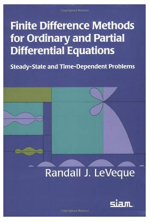
4.4 Mathematics (32)

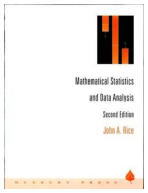
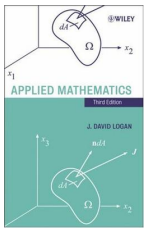
No.	degree	university	course name	department	date	text book	instructor
32	Non-degree	Normandale college, Bloomington, Minnesota	Math 2520, Differential Equations and Linear Algebra meeting: (online) discussion: N/A finals: TBA	Mathematics	Summer 2021	Differential Equations and Linear Algebra by Goode and Annin, 4th edition, published by Pearson 	Ghidei Zedingle

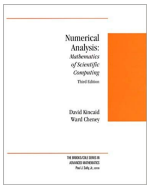
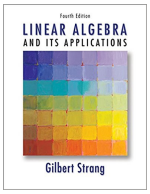
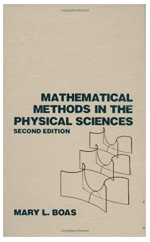
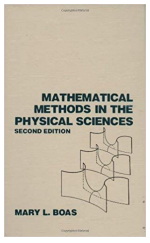
31	Non-degree	University of Minnesota, Twin Cities	Math 2243, Linear algebra and differential equations meeting: TTh 6:00 PM - 8:05 PM (online) discussion: N/A finals: December 17th from 12:00 PM - 3:00 PM	Mathematics	Fall 2020	Differential Equations and Linear Algebra (4th edition) by Edwards and Penny 	Lillian Webster
30	Non-degree	University of Minnesota, Twin Cities	MATH 5525, Introduction to Ordinary Differential Equations meeting: MoWeFr 11:15AM - 12:05PM, Vincent Hall 113 discussion: N/A finals: 1:30 to 3:30 p.m., Tuesday, May 12	Mathematics	Spring 2020	Nonlinear Differential Equations and Dynamical Systems by F.Verhulst, Springer. 	M. Carme Calderer
29	Non-degree	University of Minnesota, Twin Cities	MATH 5587, Elementary Partial Differential Equations I meeting: Tu Thu 4:45-6:00 PM, Amundson Hall 156 discussion: N/A finals: Tuesday Dec 10,2019 4:45-6:00pm, Amundson Hall 156	Mathematics	Fall 2019	Introduction to Partial Differential Equations by Peter Olver, ISBN 9783319020983 	Svitlana Mayboroda

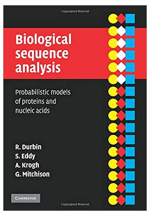
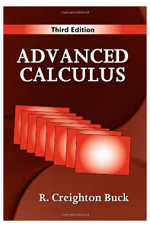
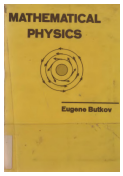
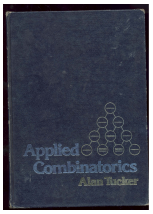
28	Non-degree	University of Minnesota, Twin Cities	MATH 4512, DIFFERENTIAL EQUATIONS WITH APPLICATIONS meeting: MWF 10:10-11:00am, Vincent Hall 6 discussion: N/A finals: Dec 18,2019 8:00-10:00am, Vincent Hall 6	Mathematics	Fall 2019	Martin Braun, Differential Equations and their Applications, Springer (4th edition), 1993 	Helena Zarin
27	Non-degree	University of Minnesota, Twin Cities	MATH 4567 Applied Fourier Analysis meeting: Mo We Fr 3:35PM - 4:25PM, Vincent Hall 2 discussion: N/A	Mathematics	Spring 2019	Fourier Series and Boundary Value Problems, 8th edition by Brown, ISBN: 9780078035975 	Jiaping Wang
26	Non-degree	University Of Wisconsin, Milwaukee	Math 601 Advanced Engineering Mathematics I meeting: TuTh 9:30 AM-10:45 AM, Physics 152 discussion: N/A	Mathematics	Fall 2018	Advanced Engineering Mathematics, 10th Edition by Erwin Kreyszig 	Istvan Lauko

25	Non-degree	University Of Wisconsin, Milwaukee	Math 322 Introduction to Partial differential equations meeting: TuTh 2:00PM - 3:15PM EMS E160 discussion: N/A finals: Thursday May 17, 2018 10:00 AM-12:00 PM	Mathematics	Spring 2018	Elementary Differential Equations and Boundary Value Problems, 10th Edition. William E. Boyce, 200e Richard C. DiPrima 	Hans Volkmer
24	Non-degree	University Of Wisconsin, Madison	Math 320 Linear algebra and differential equations meeting: TuTh 9:30AM - 10:45AM VAN VLECK B239 discussion: Mo 8:50AM - 9:40AM VAN VLECK B115 finals: 05/07/2017 7:25PM 9:25PM	Mathematics	Spring 2017	Differential Equations and Linear Algebra by Edwards and Penney 	Leslie Smith
23	Non-degree	University Of Wisconsin, Madison	Math 322 Applied Mathematical Analysis meeting: MWF, 12:05-12:55 Van Hise 115 discussion: N/A finals: Sat dec 17, 5:05 PM to 7:05 PM.	Mathematics	Fall 2016	Applied Partial Differential Equations with Fourier Series and Boundary Value Problems, 5th ed. Richard Haberman 	Leslie Smith

22	Non-degree	University Of Wisconsin, Madison	Math 319: Techniques in Ordinary Differential Equations meeting: MoWeFr 2:25PM - 3:15PM, VAN VLECK B239 finals: Dec 22, 2016 12:25 PM-2:225 PM	Mathematics	Fall 2016	Elementary Differential Equations, 9th ed by William E. Boyce, Richard C. DiPrima 	Minh-Binh Tran
21	MS Engineering Mechanics	University Of Wisconsin, Madison	Math 703 methods of applied mathematics I meeting: Mu,Thu 11:00AM - 12:15PM VAN VLECK B139	Mathematics	Fall 2014	Introduction to Applied Mathematics, ISBN 0961408804 by Gilbert Strang 	Gheorghe Craciun
20	Non-degree	University of California, Davis	Math 228B Numerical Solution of Differential Equations	Mathematics	Winter 2011	Finite Difference Methods for Ordinary and Partial Differential Equations by Randall J. LeVeque 	Robert Guy
19	Non-degree	University of California, Davis	Math 228A Numerical Solution of Differential Equations	Mathematics	Fall 2010	Finite Difference Methods for Ordinary and Partial Differential Equations by Randall J. LeVeque 	Robert Guy

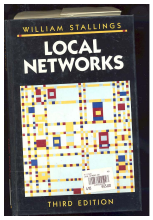
18	MS Applied Mathematics	California state University Fullerton	Math 597 B Finals Research	Applied Mathematics	Summer 2008		Angel R. Pineda
17	MS Applied Mathematics	California state University Fullerton	Math 597 A Finals Research	Applied Mathematics	Summer 2008		W. B. Gearhart
16	MS Applied Mathematics	California state University Fullerton	Math 504 Simulation Modeling and Analysis	Applied Mathematics	Spring 2008	Lecture notes by Dr Gearhart. Reference book: Introduction to probability models by Sheldon Ross	W. B. Gearhart
15	MS Applied Mathematics	California state University Fullerton	Math 502 Probability and Statistics	Applied Mathematics	Fall 2007	Mathematical statistics and data analysis 3rd edition. By John Rice 	Mori Jamshidian
14	MS Applied Mathematics	California state University Fullerton	Math 503 Mathematical Modeling	Applied Mathematics	Summer 2007	Applied Mathematics 3rd edition by David Logan 	W. B. Gearhart
13	MS Applied Mathematics	California state University Fullerton	Math 499 independent studies	Applied Mathematics	Spring 2007		Angel R. Pineda

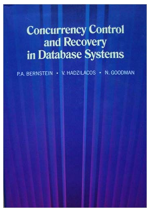
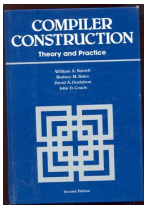
12	MS Applied Mathematics	California state University Fullerton	Math 501 Numerical Analysis and computation	Applied Mathematics	Spring 2007	Numerical Analysis 3rd edition. by David R. Kincaid, E. Ward Cheney 	C. H. Lee
11	MS Applied Mathematics	California state University Fullerton	Math 307 Linear Algebra	Applied Mathematics	Spring 2007	Linear Algebra and its Applications 4th edition. By Gilbert Strang 	Angel R. Pineda
10	Non-degree	University Of California, Berkeley	MATH 121B Mathematical Tools for the Physical Sciences	Mathematics	Spring 2004	MATHEMATICAL METHODS IN PHYSICAL SCI, BOAS. 2nd edition 	Richard E. Borcherds
9	Non-degree	University Of California, Berkeley	MATH 121A Mathematical Tools for the Physical Sciences	Mathematics	Spring 2004	MATHEMATICAL METHODS IN PHYSICAL SCI, BOAS. 2nd edition 	Fraydoun Rezakhanlou

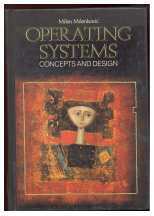
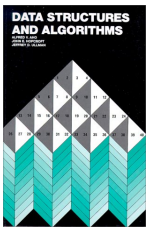
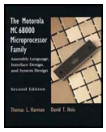
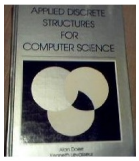
8	Non-degree	University Of California, Berkeley	Math 127 Mathematical and Computational Methods in Molecular Biology	Mathematics	Fall 2002	Biological sequence analysis: probabilistic models of proteins and nucleic acids By Richard Durbin 	Lior Pachter
7	Non-degree	University of Massachusetts, Lowell, MA	MATH 92.306 Real Analysis II	Mathematics	Summer 1992	Advanced calculus by R. Creighton Buck 	James Graham-Eagle
6	MS Electrical Engineering	University of Massachusetts, Amherst, MA	MATH 697P Mathematical Methods For Science And Engineering I	Mathematics	Summer 1991 (Transfer course)	Mathematical Physics, Eugene Butkov, Addison Wesley 	Donald F St. Mary
5	MS Computer Science	Oakland University, Michigan	APM 563 Discrete methods	Mathematics	Fall 1987	Albert Tucker, Applied Combinatorals 	
4	GCE A-level	Stockton Billingham technical College, England	Mathematics, University of London Board	Mathematics	1977		

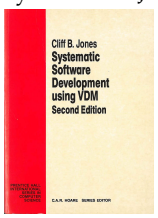
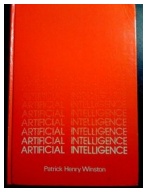
3	GCE A-level	Stockton Billingham technical College, England	Further Mathematics University of London Board	Mathematics	1977		
2	GCE A-level	Stockton Billingham technical College, England	Pure Mathematics Associated examination Board	Mathematics	1977		
1	GCE A-level	Stockton Billingham technical College, England	Applied Mathematics Associated examination Board	Mathematics	1977		

4.5 Computer Science (11)

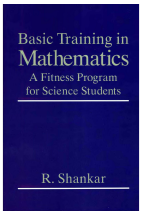
No.	degree	university	course name	department	date	text book	instructor
11	Non-degree	Boston University, Boston, MA	CSE 635 Local Area Networks: Design and Implementation	Computer Science	Fall 1990	Local Networks, Second Edition, by Stalling, William 	Mikhail Orlov
10	Non-degree	University Of Washington, Seattle, WA	CSE 524 Parallel Algorithms	Computer Science	March 1990	class notes	Richard Anderson

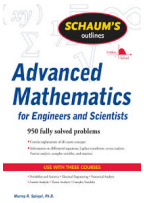
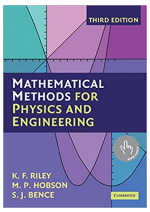
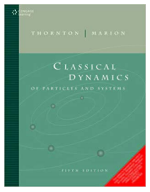
9	Non-degree	University Of California, Santa Barbara	CSE 274 Advanced Topics in Data Base	Computer Science	March 1989	Concurrency Control And Recovery in Data Base Systems. by Bernstein, Hadzilacos, Goodman. Addison Wesley 	Divyakant Agrawal
8	MS Computer Science	Oakland University, Michigan	CSE 565 Compiler Construction	Computer Science	Fall 1988	Compiler construction: Theory and practice William A. Barrett, Rodney M. Bates, David A. Gustafson, John D. Couch, Science Research. 1986 	Ronald J. Srodawa
7	MS Computer Science	Oakland University, Michigan	CSE 535 Programming languages design	Computer Science	Fall 1988	Programming Languages: Design and Implementation, Terrence W. Pratt, Marvin V. Zelkowitz 	Ronald J. Srodawa

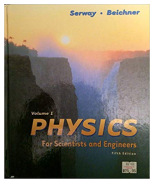
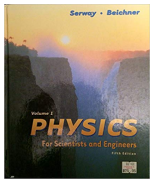
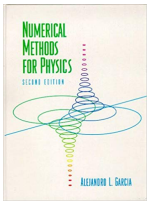
6	MS Computer Science	Oakland University, Michigan	CSE 550 Operating Systems	Computer Science	March 1988	Milenkovic, Operating Systems, McGraw Hillz 	David E. Boddy
5	MS Computer Science	Oakland University, Michigan	CSE 542 Algorithms	Computer Science	March 1988	Data structures and Algorithms. by Aho,Hopcraft and Ullman 	James H. McKay
4	MS Computer Science	Oakland University, Michigan	CSE 502 Hardware Logic design	Computer Science	January 1988	Motorola MC6800 Microprocessor family assembly language, Interface design and system design 	Subramaniam Ganesan
3	MS Computer Science	Oakland University, Michigan	CSE 504 Discrete structures and Foundation of computer science	Computer Science	January 1988	A.Doerr, K.Levasseur. by Applied Discrete Structures for computer science, SRA 1985 	Thomas G. Windeknecht

2	MS Computer Science	Oakland University, Michigan	CSE 538 Programming methodology	Computer Science	Fall 1987	Systematic Software development using VDM. by C.B.Jones 	Janusz Laski
1	MS Computer Science	Oakland University, Michigan	CSE 516 Artificial Intelligence	Computer Science	Summer 1987	AI by Patrick Henry Winston 	

4.6 Physics (10)

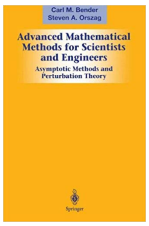
No.	degree	university	course name	department	date	text book	instructor
10	Non-degree	University of Minnesota, Twin Cities	PHYSICS 3041, Mathematical Methods for Physicists meeting: M W F 1:25-2:15 pm (online) discussion: N/A finals: TBA	Physics	Spring 2021	Basic Training in Mathematics: A Fitness Program for Science Students by R. Shankar 	Yong-Zhong Qian

9	Non-degree	University of Minnesota, Twin Cities	PHYSICS 5041 Mathematical Methods for Physics meeting: Mo We 1:25PM - 2:15PM, Tate Hall 110, Fr 1:25PM - 3:20PM Tate Hall B65 discussion: N/A	Physics	Spring 2019	Schaums Outline Of Advanced Math For Engineers and Scientists, by Spiegel. ISBN: 9780071635400 	Joseph Kapusta
8	Non-degree	University Of Wisconsin, Milwaukee	Physics 501, Special Topics: Mathematical Models of Physical Problems I meeting: MW 12:30 PM-1:45 PM, KEN 1132 discussion: N/A	Physics	Fall 2018	Mathematical Methods for Physics and Engineering: A Comprehensive Guide, by K. F. Riley , M. P. Hobson , S. J. Bence, 3rd edition. 	Daniel Agterberg
7	Non-degree	University Of Wisconsin, Madison	Physics 311 (Mechanics) meeting: MWF 11:00AM - 11:50AM, VAN HISE 494 discussion: Th 1:20PM - 2:10PM CHAMBERLIN 2108 finals: 12/17/2015 5:05PM	Physics	Fall 2015	S.T. Thornton, J.B. Marion, Classical Dynamics of Particles and Systems, 5th Edition, Brooks/Cole, 2004, ISBN 0534408966 	Stefan Westerhoff
6	MS Mechanical Engineering	University Of California, Irvine	PHY 100 Computational Methods in Physics	Physics	Fall 2006	Instructor own Mathematica HandBook	Peter Taborek

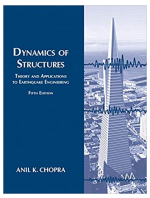
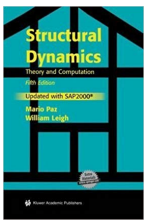
5	Non-degree	University Of California, Irvine	Physics 7LD Classical Physics 7D Lab	Physics	Summer 2003	Lab notes	Roger D. McWilliams
4	Non-degree	University Of California, Irvine	Physics 7D Classical Physics	Physics	Summer 2003	Physics. By Serway and Beichner 	Roger D. McWilliams
3	Non-degree	University Of California, Irvine	Physics 7E Classical Physics	Physics	Summer 2003	Physics. By Serway and Beichner 	Roger D. McWilliams
2	Non-degree	California State University, San Jose	Physics 240 Computational Physics	Physics	Fall 2002	Numerical Methods for Physics, 2nd Edition. A.L.Garcia 	Alejandro Garcia
1	GCE A-level	Stockton Billingham technical College, England	Physics	Physics	1977		

4.7 Engineering Physics (1)

No.	degree	university	course name	department	date	text book	instructor

1	Non-degree	University Of Wisconsin, Madison	EP 548 Engineering Analysis II meeting: TuTh 11:00AM - 12:15PM VAN VLECK B341 discussion: N/A finals: 05/11/2017 10:05AM 12:05PM	Engineering Physics	Spring 2017	Advanced Mathematical Methods for Scientists and Engineers I, Bender and Orszag. 	Leslie Smith

4.8 Civil Engineering (31)

No.	degree	university	course name	department	date	text book	instructor
31	MS Engineering Mechanics	University Of Wisconsin, Madison	CEE 744 Structural Dynamics and Earthquake Engineering	Civil Engineering	Spring 2013	Dynamics of Structures, Anil K. Chopra, Prentice-Hall 	Michael Oliva
30	MS Mechanical Engineering	University Of California, Irvine	CE 247 Structural Dynamics	Civil Engineering	Fall 2006	Structural Dynamics. 5th edition. Mario PAZ 	Maria Q. Feng
29	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 512b Special Topics in Hydrology	Civil Engineering	Summer 1983		

28	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 561 construction planning and scheduling	Civil Engineering	Spring 1983		
27	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 599 special topics	Civil Engineering	Spring 1983		
26	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 572 Construction labor management	Civil Engineering	Spring 1983		
25	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 506 Heavy Construction Estimating	Civil Engineering	Spring 1983		
24	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 462 Construction methods and Equipment	Civil Engineering	Fall 1982		
23	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 501 Functions of the constructor	Civil Engineering	Fall 1982		
22	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 508 Mechanics of Solids II	Civil Engineering	Summer 1982		
21	MS Civil Engineering	University of Southern California (USC), Los Angeles, CA	CE 525b Engineering Analysis	Civil Engineering	Summer 1982		
20	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Principles of building construction II	Civil Engineering	1980		

19	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Industrial engineering II	Civil Engineering	1980		
18	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Advanced theory/Design of structures	Civil Engineering	1980		
17	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Structural concrete and steel	Civil Engineering	1980		
16	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Advanced soil mechanics	Civil Engineering	1980		
15	B.Eng Civil/Building Engineering	Liverpool University, England	3rd year. Group design project	Civil Engineering	1980		
14	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Advanced Mathematics	Civil Engineering	1979		
13	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Numerical methods and Statistics	Civil Engineering	1979		
12	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Principles of building construction I	Civil Engineering	1979		
11	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Principles of building services I	Civil Engineering	1979		
10	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Industrial Engineering I	Civil Engineering	1979		

9	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. FORTRAN programming	Civil Engineering	1979		
8	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Theory and design of structures	Civil Engineering	1979		
7	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Structural concrete	Civil Engineering	1979		
6	B.Eng Civil/Building Engineering	Liverpool University, England	2nd year. Soil mechanics	Civil Engineering	1979		
5	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Environmental science	Civil Engineering	1978		
4	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Environmental science	Civil Engineering	1978		
3	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Principles of mechanical Engineering	Civil Engineering	1978		
2	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Construction materials	Civil Engineering	1978		
1	B.Eng Civil/Building Engineering	Liverpool University, England	1st year. Graphics communication/Design	Civil Engineering	1978		

5 Partial list of non-credit courses, audit courses, misc. lectures and notes

No.	university	course name	department	date	text book	instructor

3	University Of Wisconsin, Madison	ME 573 computational fluid (CFD)	Mechanical Engineering	summer 2015	Computational techniques for fluid dynamics / C.A.J. Fletcher	Chris Rutland
2	University Of Wisconsin, Madison	Math 513 Numerical Linear Algebra	Mathematics	spring 2013	Numerical Linear Algebra, L.N. Trefethen and D. Bau, SIAM, 1997. ISBN: 0898713617	Ron Amos
1	University Of Wisconsin, Madison	EMA 605 Finite element methods	Engineering Mechanics	Fall 2009	Concepts and Applications of Finite Element Analysis, 4th Edition ISBN-10: 0471356050	Michael E. Plesha

6 TA Courses

No.	university	course name	department	date
3	University Of California, Irvine	MAE 206 Optimization (Grader only)	Mechanical Engineering	Spring 2006
2	University Of California, Irvine	MAE 185 Applied Numerical Analysis (TA and Grader)	Mechanical Engineering	Spring 2006
1	University Of California, Irvine	MAE 80 Dynamics (TA and Grader)	Mechanical Engineering	Summer 2006